

NISRA STATISTICAL BULLETIN

Frequency: Annual

Coverage: Northern Ireland

Date: 25 September 2019 (9.30am)

Geographical Area: Northern Ireland

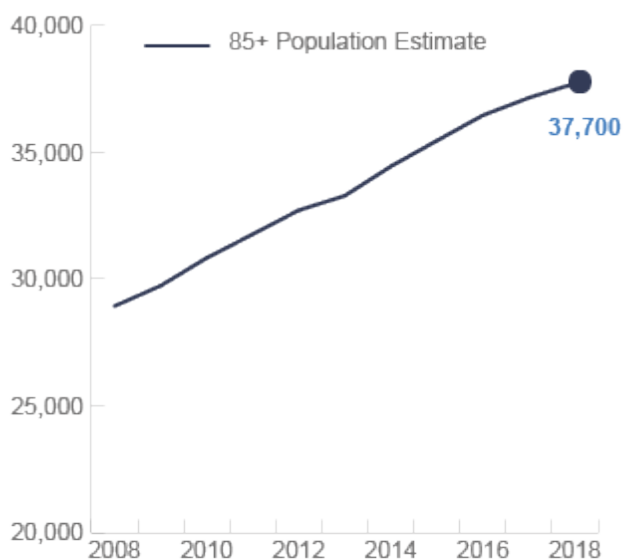
Theme: Population

Time period: mid-2018

**Estimates of the population aged 85 and over, Northern Ireland, 2018
(and revised 2001 to 2017)**



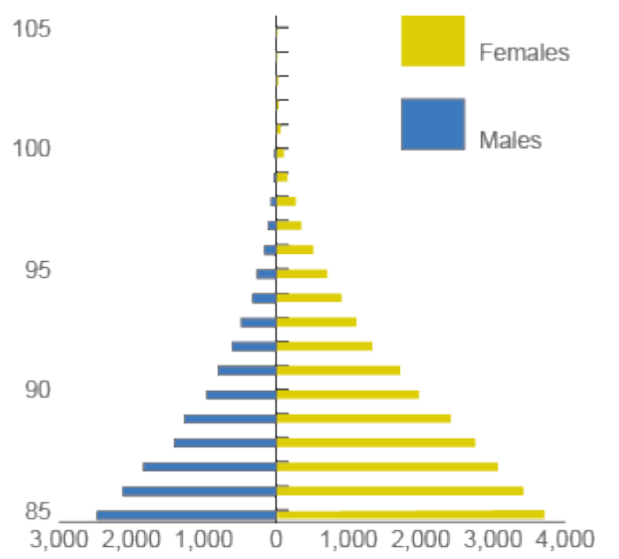
This statistical report provides estimates for those aged 85 and over in Northern Ireland, by sex and age.



Northern Ireland's 85 and over population grows to 37,700

The number of people aged 85 and over in Northern Ireland was estimated to be 37,700 in mid-2018, an increase of 600 people (1.5 per cent) since mid-2017.

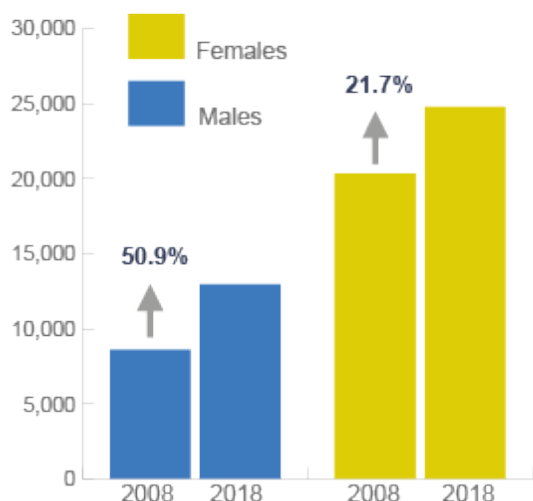
Over the decade the population aged 85 and over has grown by 8,800 people (30.4 per cent).



Females made up most of the 85 and over population in mid-2018

There were 24,800 females aged 85 and over in mid-2018, with males aged 85 and over totalling 13,000.

Females represented 65.6 per cent of the 85 and over population, with males making up the remaining 34.4 per cent.



Males aged 85 and over have grown at a faster rate than females from mid-2008

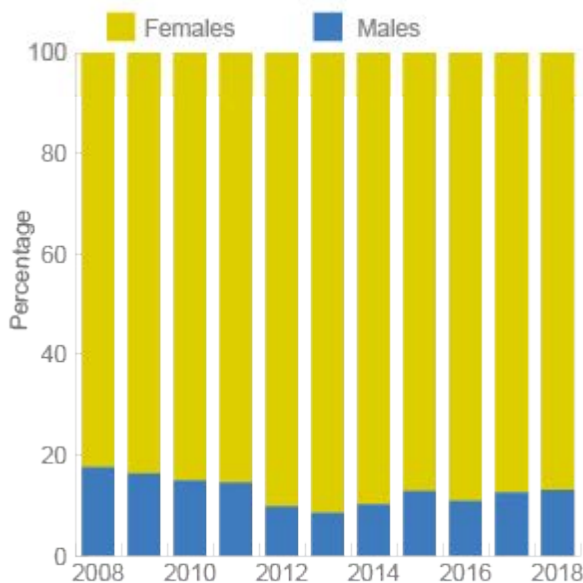
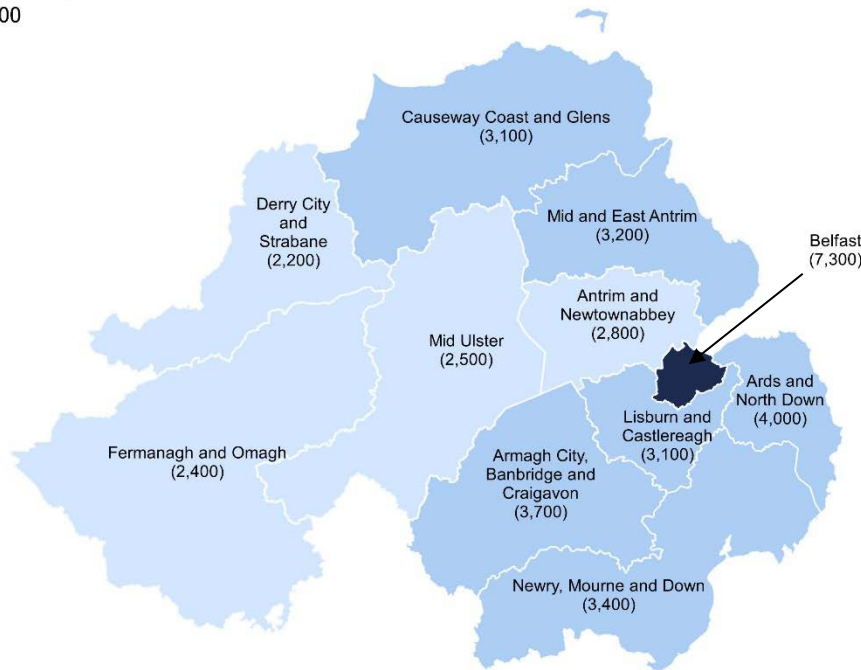
The population of males aged 85 and over has grown by 50.9 per cent (4,400) since mid-2008.

In contrast, the population of females aged 85 and over has grown by 21.7 per cent (4,400) since mid-2008.

Belfast Local Government District had the largest estimated population aged 85 and over in mid-2018

The largest number of people aged 85 and over were in Belfast LGD (7,300), or 19.3 per cent of the total 85 and over population. The LGD with the smallest 85 and over population was Derry City and Strabane (2,200), or 5.9 per cent of the total 85 and over population in mid-2018.

- Between 2,000 and 3,000
- Between 3,000 and 4,000
- More than 4,000



Northern Ireland's Centenarians

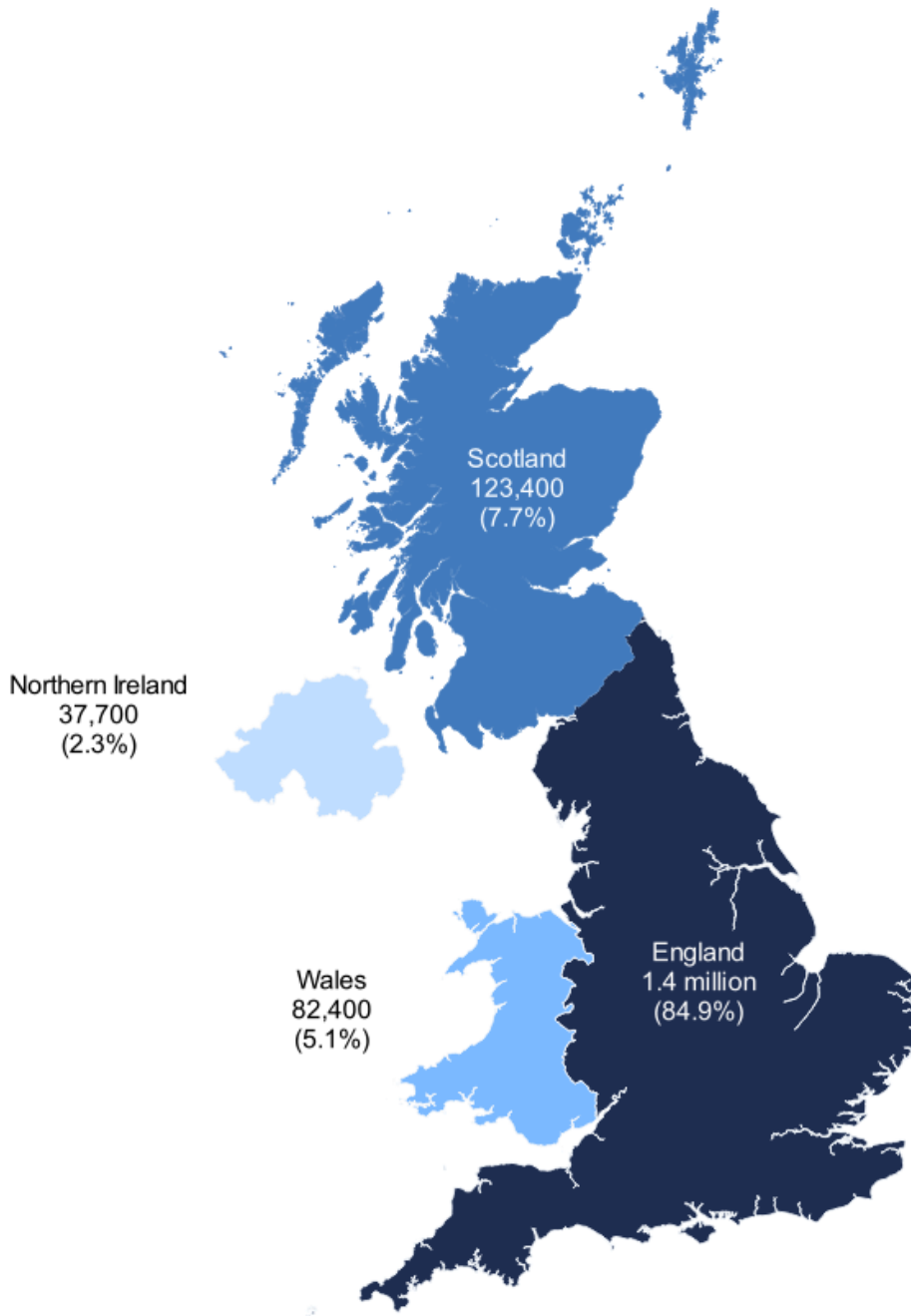
There were an estimated 300 centenarians (i.e. those aged 100 and over) in mid-2018.

The majority of centenarians were female (261 or 87.0 per cent). The number of male centenarians in mid-2018 was 39 (13.0 per cent).

The number of female centenarians has consistently outnumbered males over the decade.

Northern Ireland had the smallest population aged 85 and over across the UK

The population aged 85 and over in the UK reached 1.6 million in mid-2018. Northern Ireland made up the smallest proportion of those aged 85 and over in the UK (37,700, 2.3 per cent). England made up the largest proportion of those aged 85 and over (1.4 million, 84.9 per cent) in mid-2018.



Contents

1. Introduction	6
2. Background to publication	6
3. The population of Northern Ireland continues to increase	7
4. Population aged 85 and over	9
5. Population aged 90-99	11
6. Number of centenarians (aged 100 and over)	14
7. Comparison of Population aged 85 and over across the UK and Ireland	15
8. Methodology	17
9. Quality Assurance	18
10. Data Quality	24
11. Links to related statistics	25
12. National Statistics	26
13. Limitations	27
14. Enquires and suggestions	28

Note: To ease readability throughout the bulletin, population figures have been presented to the nearest 100, with the exception of the population aged 100 and over as these are relatively smaller numbers where rounding would cause a loss of accuracy and knowledge for the reader. In all cases, percentage changes have been presented to one decimal place. However, all calculations have been undertaken on the basis of unrounded numbers which will, in some instances, give rise to apparent discrepancies.

1. Introduction

This bulletin presents information on how the overall number and gender composition of those aged 85 and over has changed during the decade mid-2008 to mid-2018, and presents analyses and commentary for those aged 90 to 99, and centenarians (i.e. those aged 100 and over).

This bulletin follows on from the [2018 mid-year population estimates](#) published on 26 June 2019, where population estimates at single years of age were provided up to 89 years, and for the age-group of those aged 90 and over. The estimates of the population aged 85 and over in this bulletin provide a further breakdown of those aged 90 and over, by single year of age up to 104 years, and collectively for those aged 105 and over.

Similar information relating to England & Wales and Scotland was also released on 25 September 2019 by the Office for National Statistics (ONS) and National Records of Scotland (NRS) respectively. While the titles for the releases for the separate UK countries differ slightly, the methodology used by all three statistical organisations to create these statistics are very similar, producing comparable results.

The information in this bulletin contributes to the production of population projections and life expectancy statistics for Northern Ireland, all of which are of policy interest because of the implications for pensions and the delivery of front line services for the older population such as housing, transport and health care. The single year estimates for those aged 90 and over for Northern Ireland also feed into the [Estimates of the Very Old for the United Kingdom](#), produced by ONS.

2. Background to publication

NISRA produces mid-year population estimates on an annual basis using the components of change method (see [Section 8](#)). Historically, these included estimates on a single year of age basis up to and including age 84. For those aged 85 and over aggregate statistics were produced, as single year of age estimates were considered to be less reliable for this age group due to the small number of people involved.

In 2010 NISRA responded to an increased demand for more detailed population estimates for those aged 85, producing single year of age mid-2009 estimates for those aged 85-104 using an internationally recognised methodology called the Kannisto-Thatcher Survivor Ratio Method (see [Section 8](#)). Similar arrangements were introduced by the other statistical offices across the UK.

Following the release of 2011 Census figures, mid-year population estimates for the years 2001 to 2011 were revised. One outcome of this revision was to extend the age range of population estimates to provide single year of age estimates up to age 89 with aggregate statistics for ages 90 and over. The Kannisto-Thatcher Survivor Ratio Method was then subsequently used to distribute the population estimates for the highest age group (90 and over) into single year of age up to and including 104, and a group aged 105 and over.

After the revision of the mid-year estimates and the increase of single year of ages from 0-84 to 0-89, a decision was made to keep the title of this publication as “Estimates of the population aged **85 and over**”, rather than changing it to the “...population aged **90 and over**”. As the bulletin still contains information on the age group 85 to 89, and 85 and over, this decision was taken so that it would be clear to users that the publication being released continues to provide the same information as in previous years, and that both the methodology and figures within it are consistent and comparable with previous publications.

It should be noted that the Kannisto-Thatcher Survivor Ratio Method gives rise to minor revisions to the age distribution within the aged 90 and over category as new information on actual deaths becomes available. Accordingly, slightly revised estimates for the 90 and over category are provided for the period mid-2001 to mid-2017. More information on these revisions and their impact on the estimates are provided in the [Quality Assurance section](#) of this bulletin.

3. The population of Northern Ireland continues to increase¹

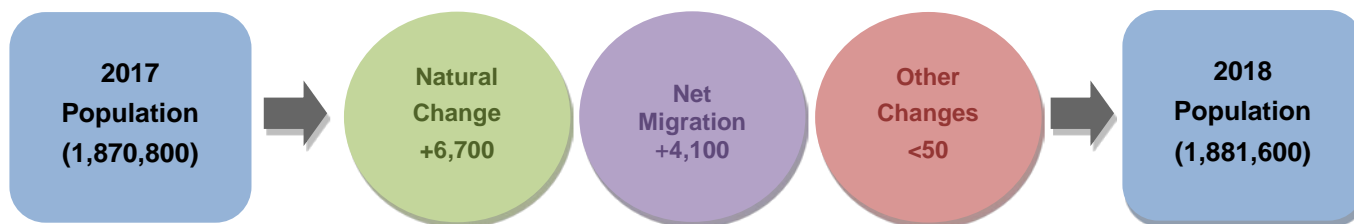
The size of the resident population in Northern Ireland at 30 June 2018 is estimated to be 1.88 million people. Slightly more than half (50.8 per cent) of the population were female, with 955,400 females compared to 926,200 males.

Over the period mid-2017 to mid-2018 the number of people living in Northern Ireland is estimated to have increased by 10,800 people (0.6 per cent). This population increase was a result of (see Figure 1):

1. Positive natural change of 6,700 people (23,100 births minus 16,400 deaths);
2. An estimated growth of 4,100 people due to net migration (23,600 people came to live in Northern Ireland and 19,400 people left).
3. A slight reduction of less than 50 people due to other changes.

¹ [Mid-2018 Population Estimates](#) were published on 26 June 2019.

Figure 1: Contribution of components of change to population increase, mid-2017 to mid-2018

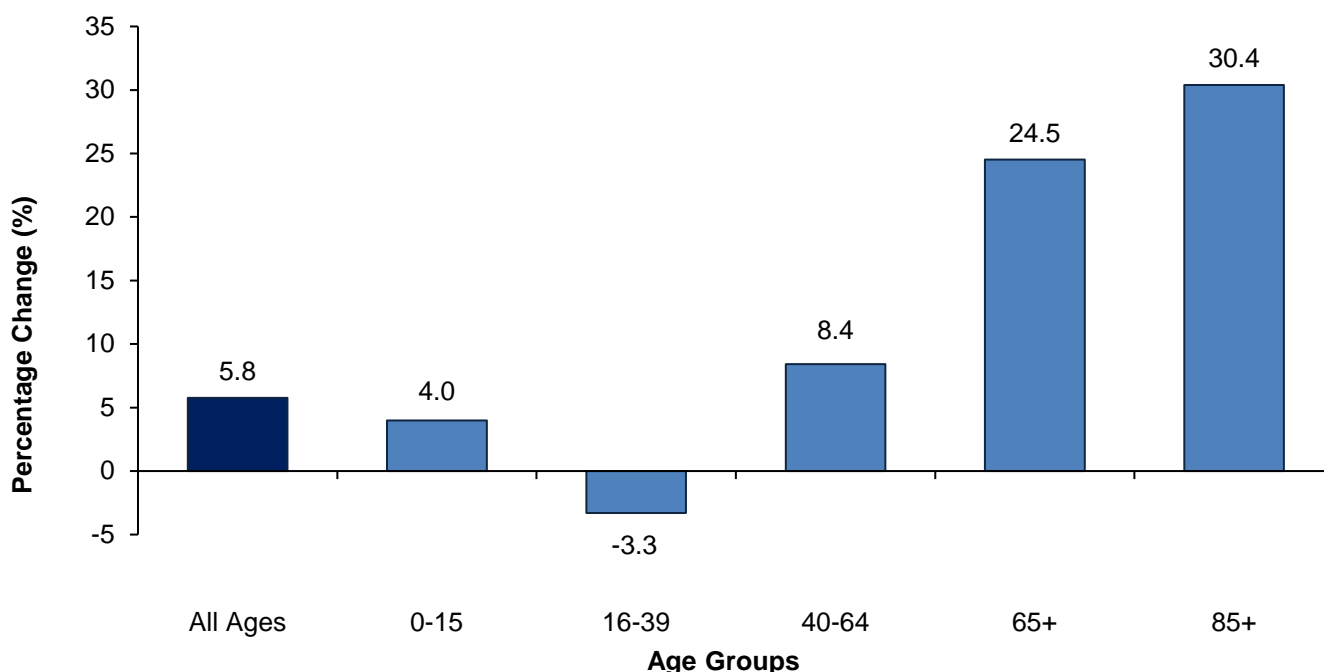


The population of Northern Ireland is becoming increasingly older. Improving survival, coupled with a general downward trend in the number of births, has resulted in an ageing population. Between mid-2017 and mid-2018, the population aged under 65 increased at a moderate rate (0.4 per cent) reaching 1,573,444. In contrast, the population aged 65 and over increased by 1.7 per cent over the same period, and has been growing by an average of 2.2 per cent per annum for the last ten years, increasing from 247,500 in mid-2008 to reach 308,200 in mid-2018.

The population aged 16 to 39 (i.e. the younger working age population) decreased by 3.3 per cent, mid-2008 to mid-2018

This progressive ageing is evident in the relative percentage changes among those in different broad age groups over the decade mid-2008 to mid-2018 (see Figure 2). The population increase of those aged 65 and over (24.5 per cent) and 85 and over (30.4 per cent) is higher than any other age group between mid-2008 and mid-2018.

Figure 2: Population change by age group (mid-2008 to mid-2018)



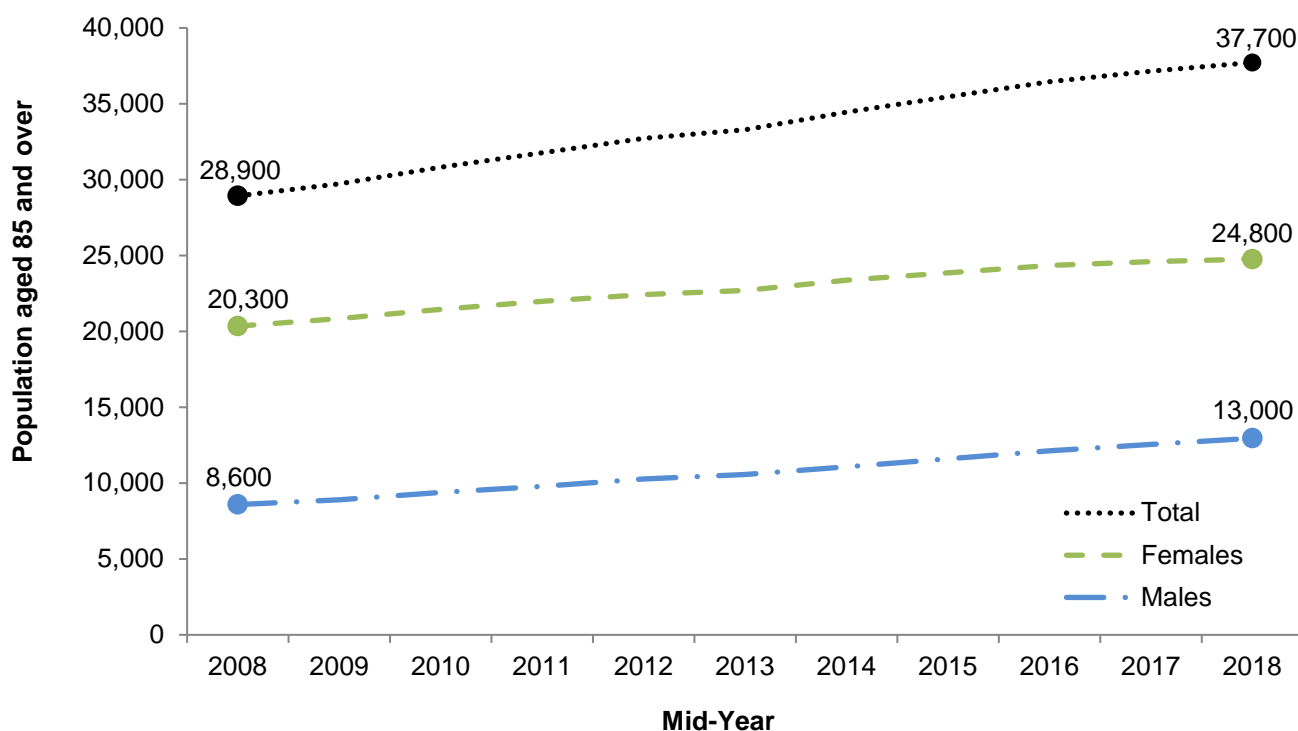
[Download Chart](#) (XLSX Format – 89 KB)

4. Population aged 85 and over

The aged 85 and over population increased by 30.4 per cent in the decade since mid-2008, significantly greater than the increase in population aged under 85 (5.4 per cent).

It is estimated that there were 37,700 people aged 85 and over living in Northern Ireland at 30 June 2018, an increase of 600 people (1.5 per cent) since mid-2017. Figure 3 shows the population aged 85 and over, from Mid-2008 to Mid-2018.

Figure 3: Population aged 85 and over by sex (mid-2008 to mid-2018)



[Download Chart](#) (XLSX Format – 87 KB)

Between mid-2017 and mid-2018, net migration of people aged 85 and over to and from Northern Ireland was only 44 more people leaving to live elsewhere than coming to live here. In the same period more people aged into this group (6,900) than those leaving through mortality (6,300). This resulted in an overall increase of 600 people aged 85 and over from mid-2017 to mid-2018. This pattern of marginal migration effects is consistent with estimated population changes in previous years.

Table 1, which presents the changing size and sex composition of the population aged 85 and over from mid-2008 to mid-2018, shows that the proportion of males in this age group has been gradually increasing.

Between mid-2008 and mid-2018, the percentage increase in the number of males aged 85 and over (50.9 per cent) has been noticeably higher than that among females (21.7 per cent). Over

the past decade, numbers of males aged 85 and over increased on average by 4.2 per cent each year, while females aged 85 and over increased on average by 2.0 per cent each year.

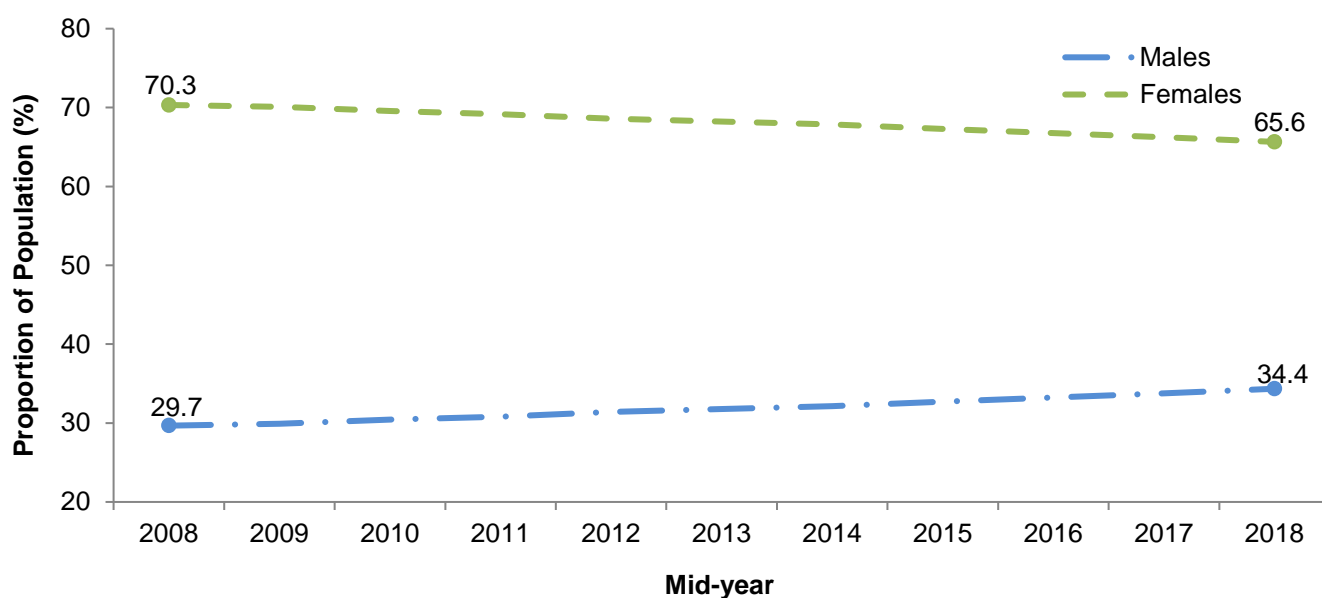
Table 1: Estimates of the population aged 85 and over by sex (mid-2008 to mid-2018)

Mid-Year	All Persons aged 85 or over		Males aged 85 or over			Females aged 85 or over		
	Number	% Change since 2008	Number	Proportion of all persons aged 85 or over	% Change since 2008	Number	Proportion of all persons aged 85 or over	% Change since 2008
2008	28,900	-	8,600	29.7	-	20,300	70.3	-
2009	29,700	2.8	8,900	29.9	3.6	20,800	70.1	2.4
2010	30,800	6.6	9,400	30.4	9.3	21,400	69.6	5.4
2011	31,800	9.8	9,800	30.8	14.1	22,000	69.2	8.0
2012	32,700	13.1	10,300	31.4	19.7	22,400	68.6	10.3
2013	33,300	15.1	10,600	31.8	23.2	22,700	68.2	11.6
2014	34,400	19.1	11,100	32.1	28.9	23,400	67.9	14.9
2015	35,500	22.6	11,600	32.7	35.1	23,900	67.3	17.3
2016	36,500	26.0	12,100	33.2	41.2	24,300	66.8	19.6
2017	37,200	28.4	12,500	33.8	46.2	24,600	66.2	20.9
2018	37,700	30.4	13,000	34.4	50.9	24,800	65.6	21.7

[Download Table](#) (XLSX Format – 438 KB)

In mid-2018 males accounted for 34.4 per cent of those aged 85 and over and females for 65.6 per cent, whereas 10 years previously in mid-2008 the figures were 29.7 per cent and 70.3 per cent respectively. This compositional change, which is illustrated in Figure 4, is indicative of higher improvement in survival rates among males than females at older ages in recent years.

Figure 4: Proportion of population aged 85 and over by sex (mid-2008 to mid-2018) (non-zero axis)



[Download Chart](#) (XLSX Format – 88 KB)

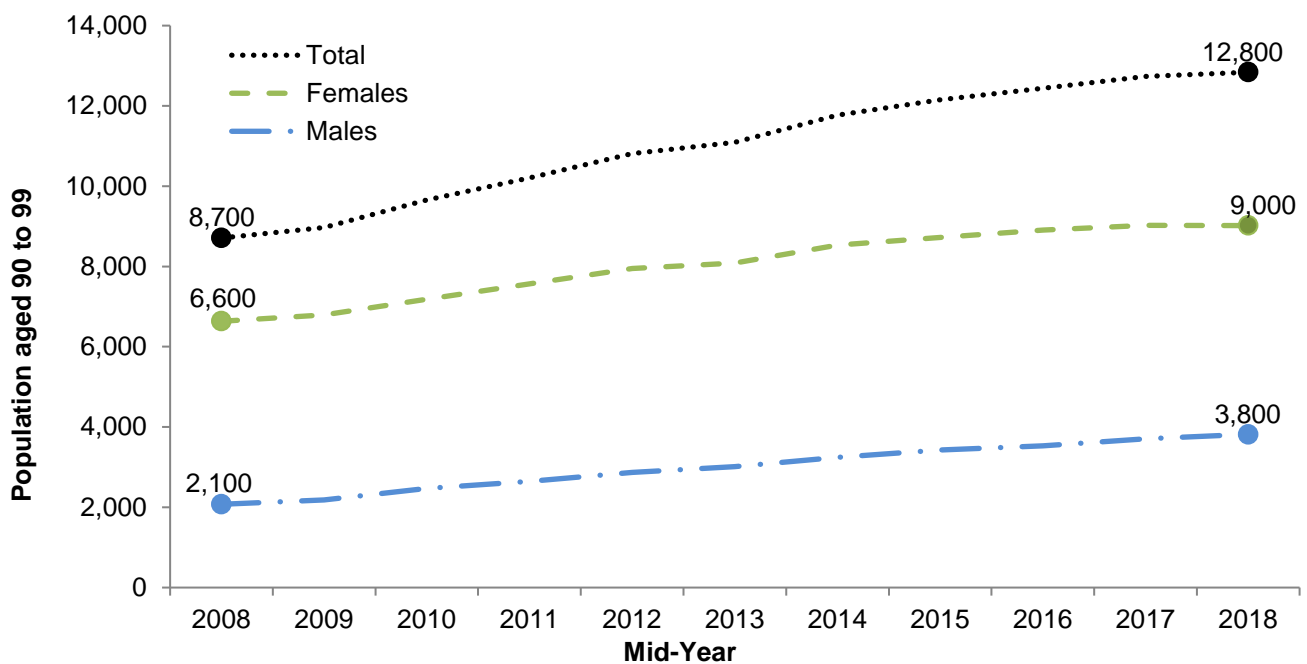
5. Population aged 90-99

In the period mid-2008 to mid-2018, the Northern Ireland population aged 90 to 99 increased by 47.4 per cent

It is estimated that there were 12,800 people aged between 90 and 99 in Northern Ireland at 30 June 2018, this represents an increase of 106 people (0.8 per cent) since mid-2017.

Figure 5 shows there has consistently been more females aged 90 to 99 than males since mid-2008. In mid-2018, 70.3 per cent of those aged 90 to 99 were females (9,000) and 29.7 per cent were males (3,800). Ten years previously in mid-2008, females accounted for 76.2 per cent of those aged 90 to 99 and males accounted for 23.8 per cent.

Figure 5: Population aged 90 to 99 by sex (mid-2008 to mid-2018)



[Download Chart](#) (XLSX Format – 87 KB)

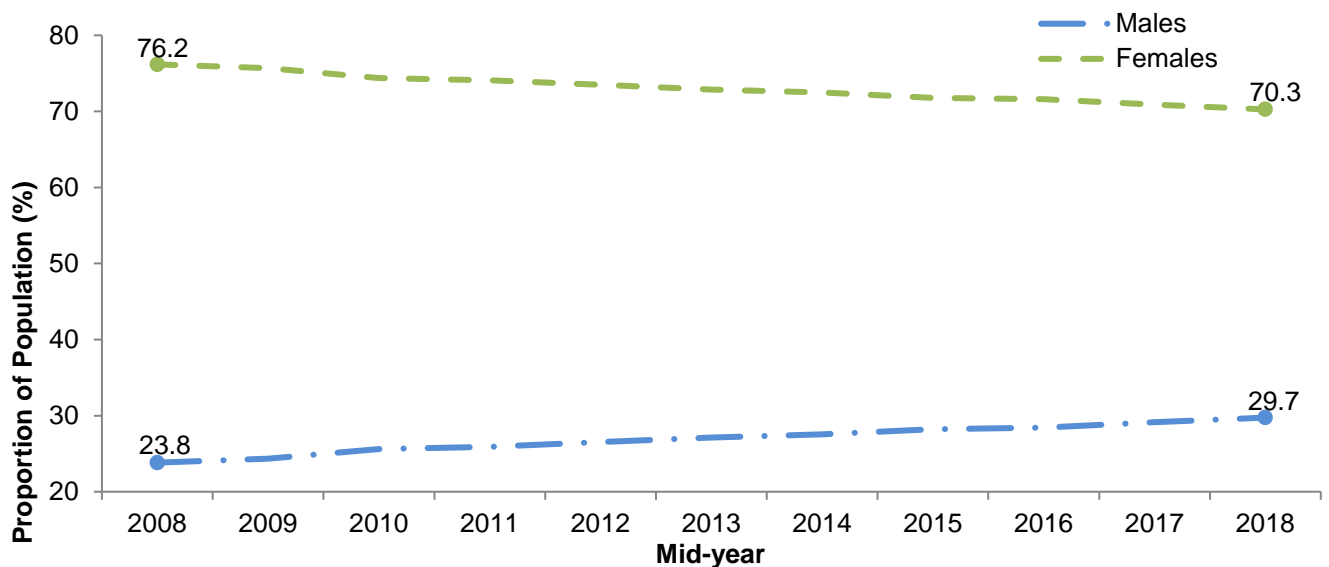
However, looking at percentage growth, the increase in the number of males aged 90 to 99 (84.0 per cent) was noticeably higher than that of females (36.0 per cent) over the decade in question (see Table 2 and Figure 6).

Table 2: Estimates of the population aged 90-99 by sex (mid-2008 to mid-2018)

Mid-Year	All Persons aged 90-99		Males aged 90-99			Females aged 90-99		
	Number	% Change since 2008	Number	Proportion of all persons aged 90-99	% Change since 2008	Number	Proportion of all persons aged 90-99	% Change since 2008
2008	8,700	-	2,100	23.8	-	6,600	76.2	-
2009	9,000	3.0	2,200	24.3	5.2	6,800	75.7	2.4
2010	9,700	10.9	2,500	25.6	19.2	7,200	74.4	8.3
2011	10,200	17.2	2,600	25.9	27.4	7,600	74.1	14.0
2012	10,800	24.2	2,900	26.5	38.2	7,900	73.5	19.8
2013	11,100	27.3	3,000	27.1	45.0	8,100	72.9	21.8
2014	11,800	35.2	3,200	27.5	56.1	8,500	72.5	28.6
2015	12,200	39.5	3,400	28.2	65.3	8,700	71.8	31.5
2016	12,400	42.8	3,500	28.4	70.3	8,900	71.6	34.2
2017	12,700	46.2	3,700	29.1	78.7	9,000	70.9	36.0
2018	12,800	47.4	3,800	29.7	84.0	9,000	70.3	36.0

[Download Table](#) (XLSX Format – 434 KB)

Figure 6: Proportion of population aged 90-99 by sex (mid-2008 to mid-2018) (non-zero axis)

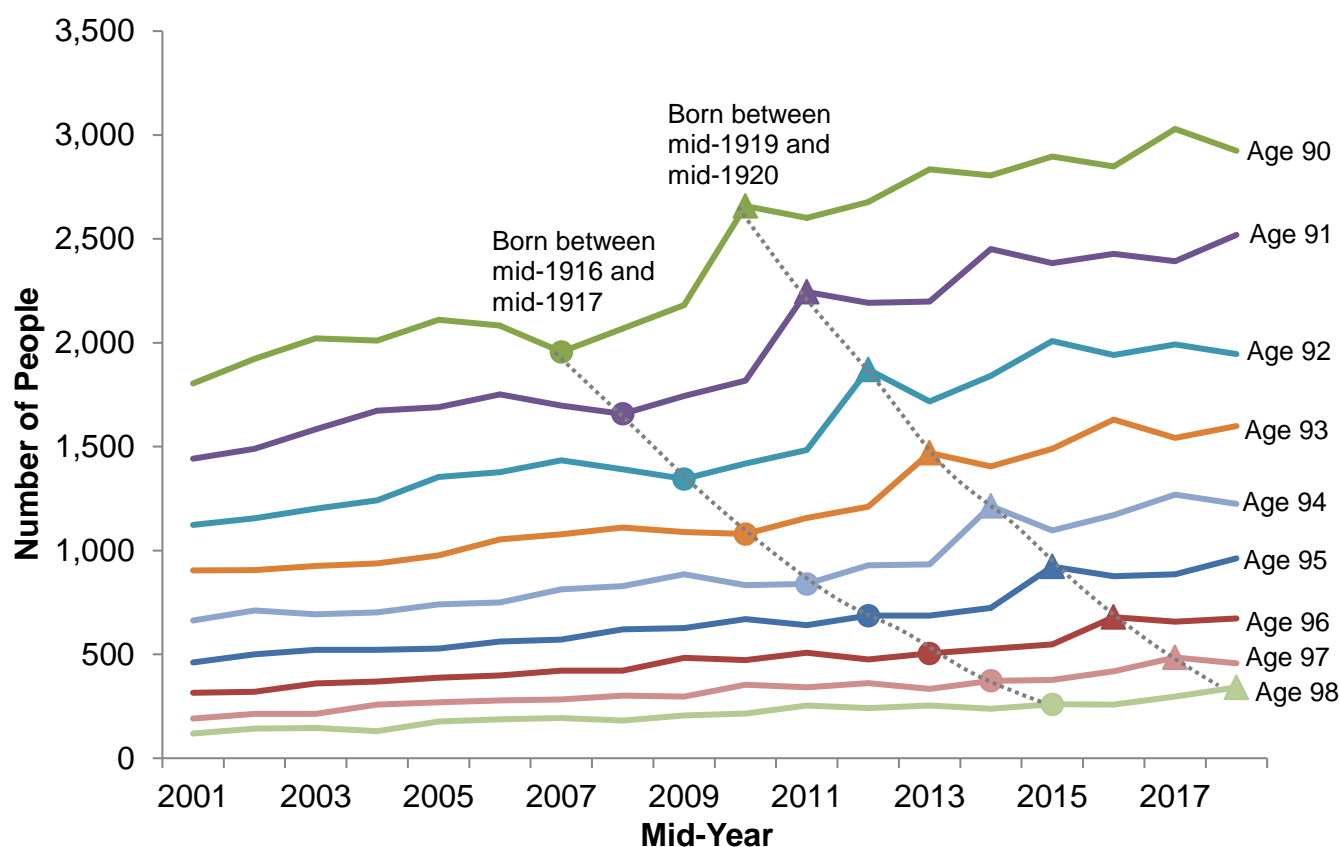


[Download Chart](#) (XLSX Format - 88 KB)

Previous reports demonstrated the impact which the First World War had on births occurring at that time, and how that has had knock-on effects on the number of persons aged 90 and over in recent years². Figure 7 shows the population aged 90 to 98 from mid-2001 to mid-2018, and highlights those born in the years ending mid-1917 and mid-1920.

The peak in the number of births in 1920 is still visible in the population estimates for those aged 90 in mid-2010, those aged 91 in mid-2011, and so on right through to those aged 98 in mid-2018. The low number of births in 1917 can still be observed in the dips in population estimates for those aged 90 in mid-2007 through to those aged 92 in mid-2009, albeit to a lesser extent. Beyond this the impact of low births in 1917 on the population estimates becomes less evident.

Figure 7: Population aged 90-98, Northern Ireland (mid-2001 to mid-2018)



[Download Chart](#) (XLSX Format – 90 KB)

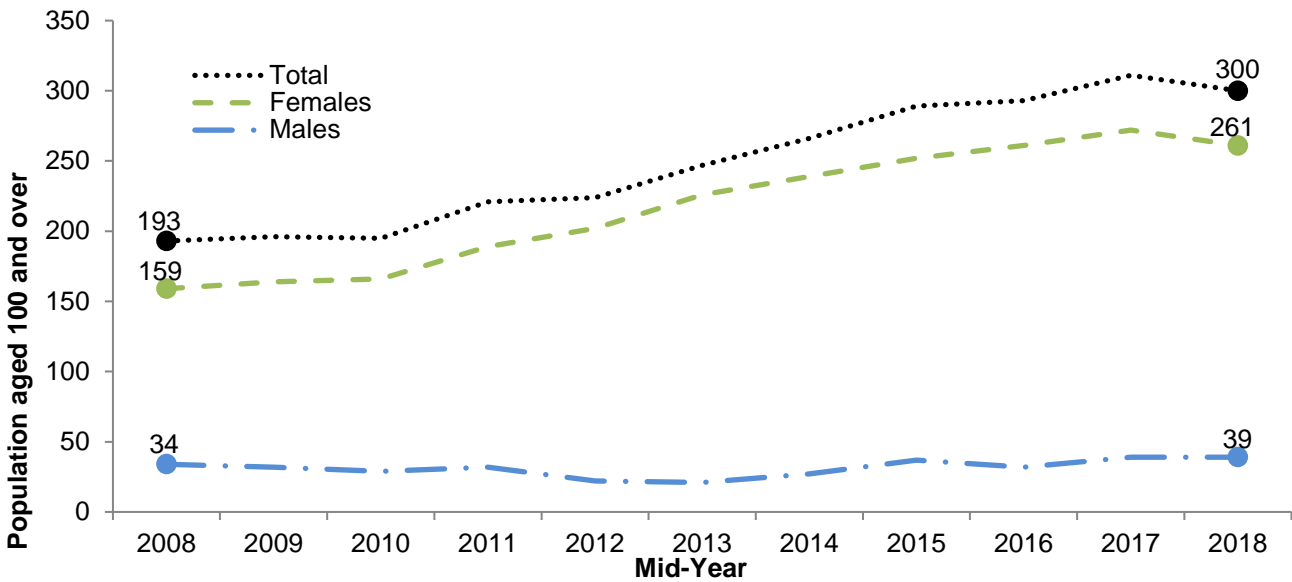
² Historical births data are available from the [Vital Statistics](#) section of the NISRA website.

6. Number of centenarians (aged 100 and over)

The vast majority of centenarians are female (87.0 per cent), mid-2018

It is estimated that there were 300 centenarians living in Northern Ireland on 30 June 2018. Figure 8 shows how the size and gender composition of the relatively small centenarian group has changed over the ten year period mid-2008 to mid-2018. The centenarian group has increased in size from 193 centenarians in mid-2008 to 300 centenarians in mid-2018, with the number of females consistently and notably exceeding the number of males.

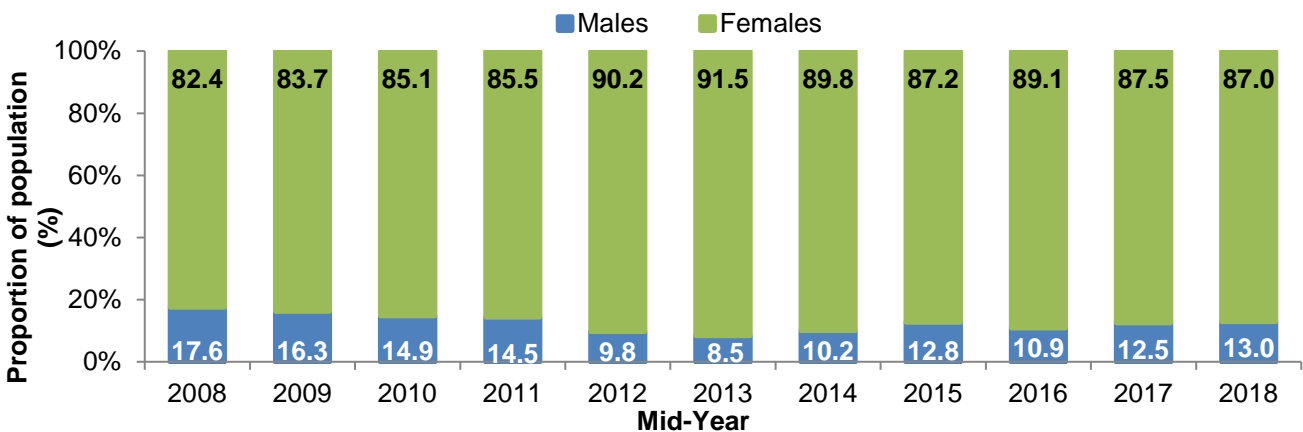
Figure 8: Population aged 100 and over by sex (mid-2008 to mid-2018)



[Download Chart](#) (XLSX Format – 87 KB)

Because of the relatively small number of people in the centenarian age group, small changes in the number of males and females can result in larger changes in the proportional representation of males and females (see Figure 9).

Figure 9: Proportion of population aged 100 and over by sex (mid-2008 to mid-2018)



[Download Chart](#) (XLSX Format – 87 KB)

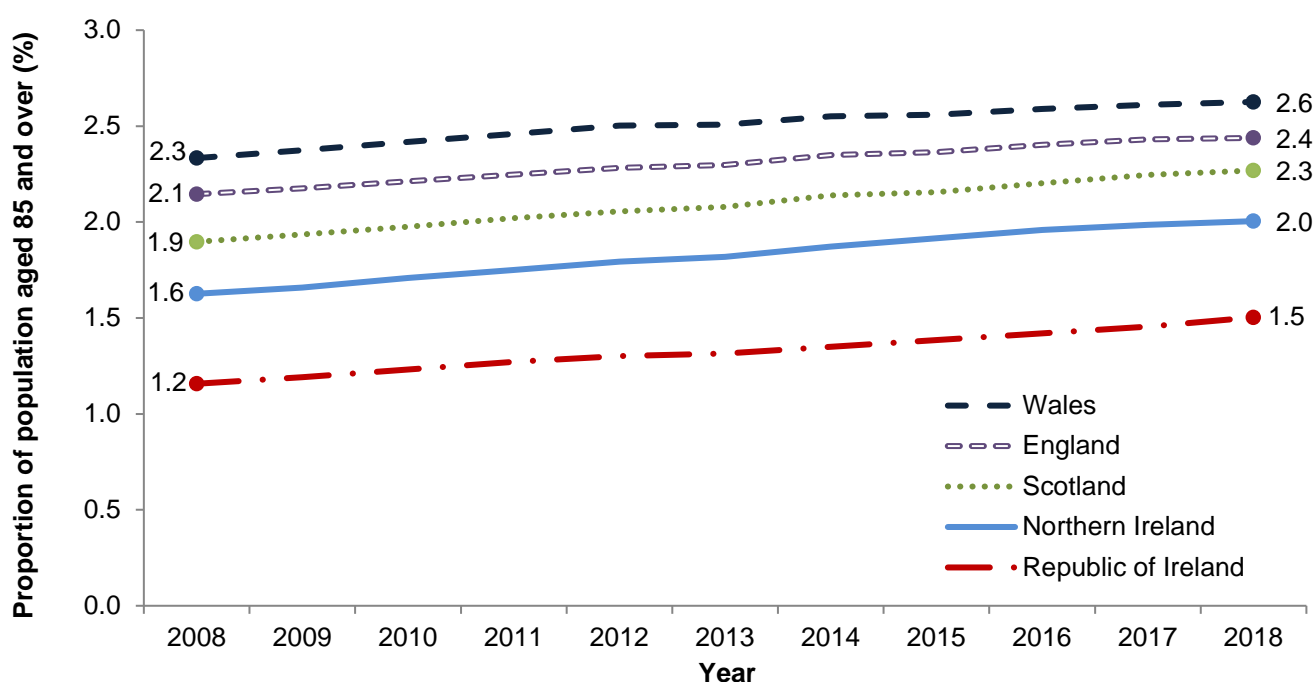
7. Comparison of Population aged 85 and over across the UK and Ireland

Of the UK countries Northern Ireland had the lowest proportion of its population aged 85 and over (2.0 per cent) in mid-2018

Population estimates by age are available for each UK country and the Republic of Ireland. Of the UK countries Figure 10 shows that over the last decade Northern Ireland had the lowest proportion of its population aged 85 and over (1.6 per cent in mid-2008 to 2.0 per cent in mid-2018), whereas Wales had the highest (2.3 per cent, mid-2008 to 2.6 per cent in mid-2018).

However, the Republic of Ireland had even lower rates: its proportion of the population aged 85 and over in 2018 (1.5 per cent) was similar to that for Northern Ireland a decade ago (1.6 per cent).

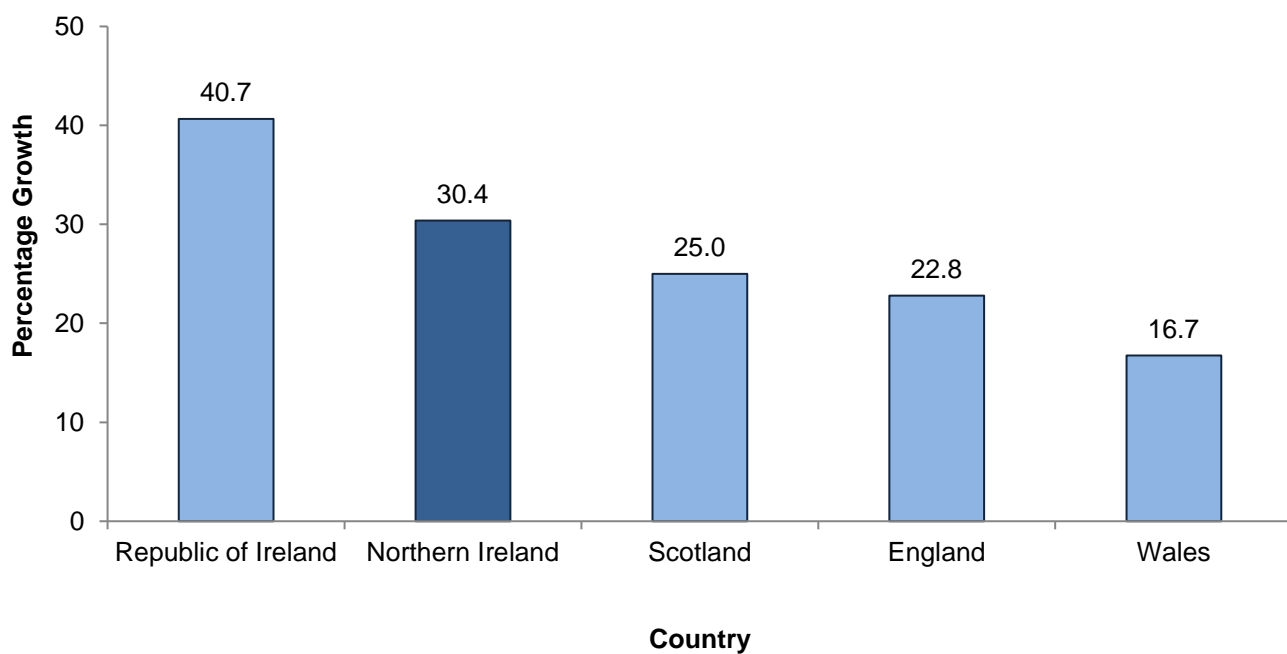
Figure 10: Proportion of population aged 85 and over by country (2008 to 2018)



[Download Chart](#) (XLSX Format – 93 KB)

In contrast, Figure 11 shows that the percentage growth of this age group over the decade mid-2008 to mid-2018 has been noticeably higher in Northern Ireland (30.4 per cent) than in the other countries of the UK, but still lower than in the Republic of Ireland (40.7 per cent). This is the result of a combination of (i) differences in age distribution within this age group, (ii) age specific mortality rates, and (iii) cohort effects of those aging into this age group.

Figure 11: Growth of population aged 85 and over by country (2008 to 2018)



[Download Chart](#) (XLSX Format – 89 KB)

8. Methodology

8.1. Mid-Year Population Estimates

The Northern Ireland Statistics and Research Agency (NISRA) produces annual [mid-year population estimates](#) at Northern Ireland level by single year of age from 0 to 89 using the 'cohort component' method. Using the most recent census as the baseline, each year the population is aged on by one year, births are added, deaths subtracted and estimates of migration are used for those moving in or out of Northern Ireland. For the official 30 June population estimates, ages 90 and over are aggregated into one age-group.

8.2. Estimates of the population aged 90 and over

To produce single year of age estimates of the population aged 90 and over, NISRA has adopted the Kannisto-Thatcher Survivor Ratio Method³, an internationally recognised method used to provide a more detailed breakdown of the older population by age.

Using death registration data, an estimate is produced of the number of people at a given age alive in a particular year. For the most recent year, the Kannisto-Thatcher Survivor Ratio Method uses an average of the last five years death data to produce an estimate of the number of survivors.

For earlier years, if someone died aged 100 in 2018, this means that they were alive in 2017 aged 99, and aged 98 in 2016 and so on. This is used to produce age distribution profiles. The number of people aged 99 alive in 2017 is recalibrated from the estimated number of people alive aged 100 in 2018, plus the number of registered deaths of people aged 100 in 2018. One outcome of this method is that each year the estimates for earlier years become more accurate as more death data become available to inform age profiles. It also assumes that migration for those aged 85 and over is negligible. Estimates are then controlled to agree with the NISRA mid-year population estimates for those aged 90 and over.

³ The Survivor Ratio Method for Estimating Numbers at High Ages, Thatcher R, Kannisto V, Andreev K, 2002. <http://www.demographic-research.org/Volumes/Vol6/1/>. The Demography of Centenarians in England and Wales, *Population Trends* 96 pp5-12, Thatcher R, 1999.

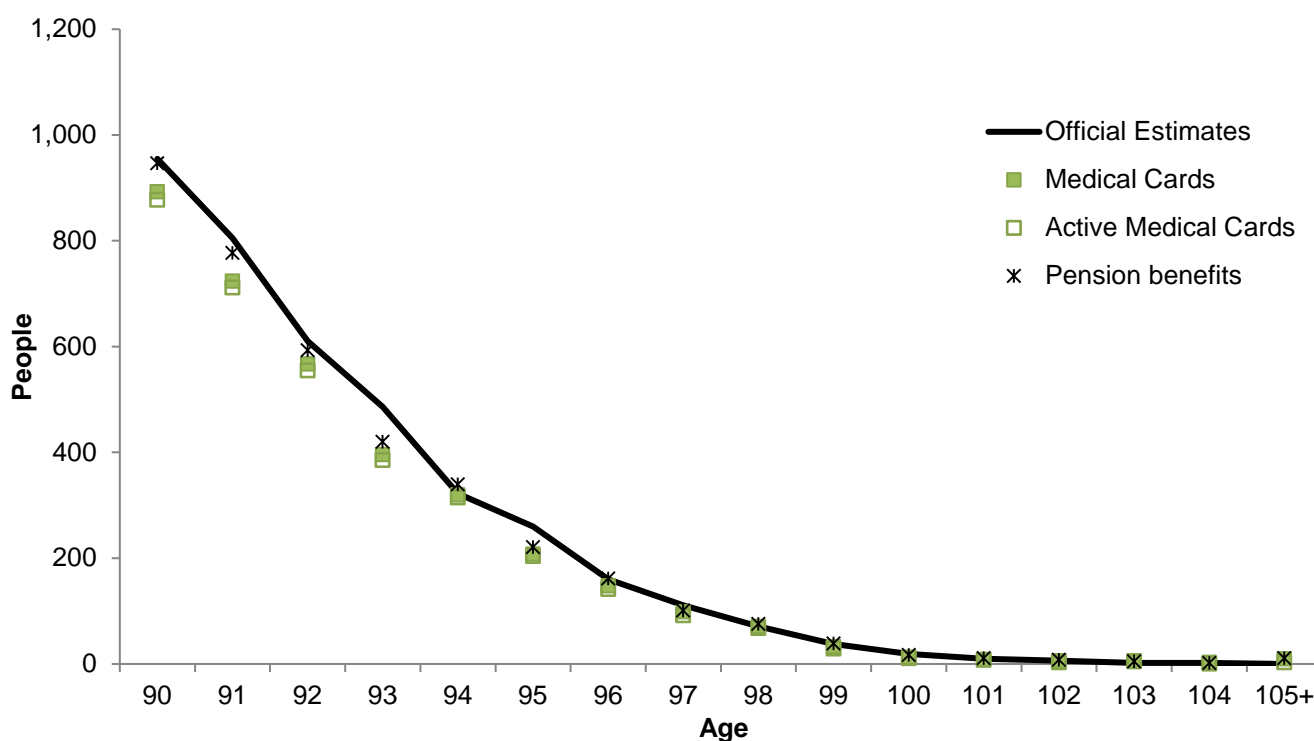
9. Quality Assurance

9.1. Quality Assurance of the Population aged 90 and over – mid-2018

Estimates of the population aged 90 and over in Northern Ireland are produced by the Northern Ireland Statistics and Research Agency (NISRA) using the Kannisto-Thatcher Survivor Ratio Method, which uses an average of the last five years death data to produce an estimate of the number of survivors and applies this to the mid-year estimates.

Figures 12a and 12b show these estimates compared with other administrative data sources which collect data for males and females aged 90 and over, namely Medical Card Registration Data, Active Medical Card data⁴, and Pensions data. These graphs show a good degree of comparability across the various data sources, but particularly in terms of pension benefits, as might be expected, both in terms of numbers and trends.

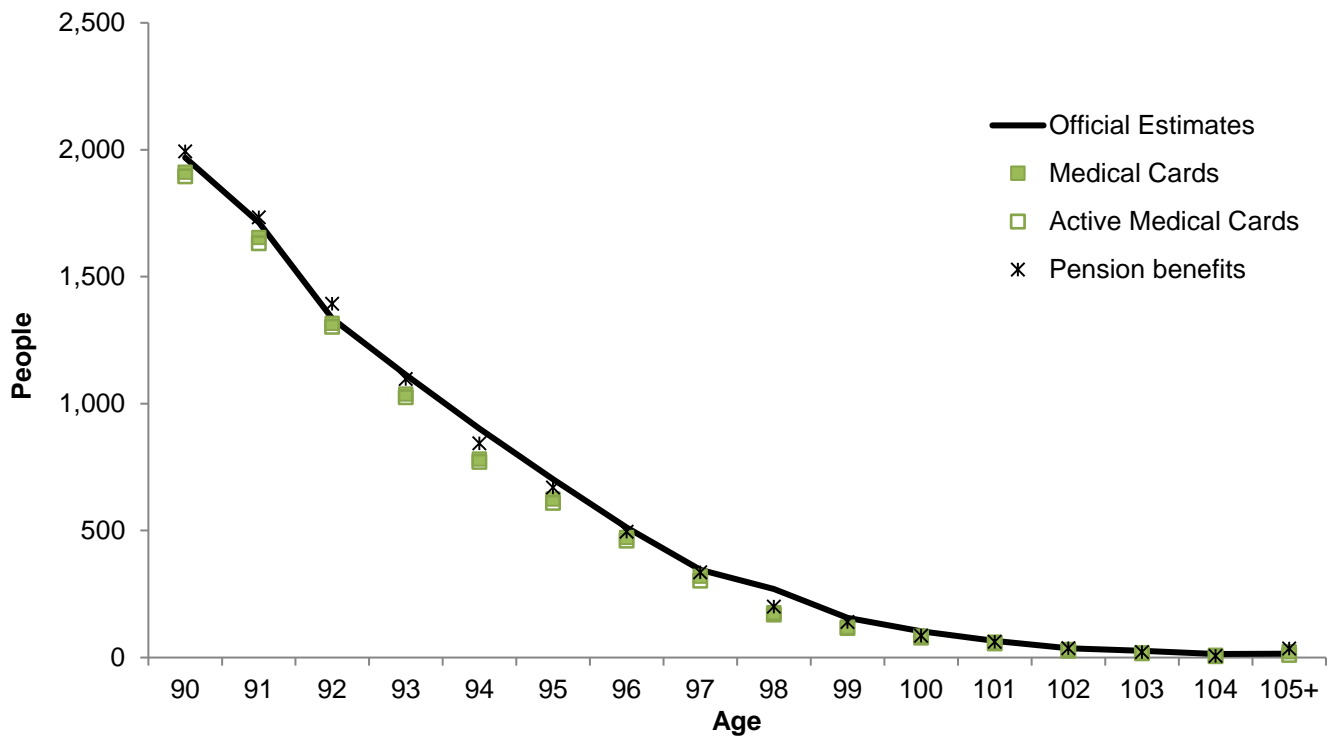
Figure 12a: Mid-2018 population aged 90 and over in comparison with administrative sources by age (males)



[Download Chart](#) (XLSX Format - 108 KB)

⁴ Active Medical Card data is Medical Card Registration data that has been used in recent years.

Figure 12b: Mid-2018 population aged 90 and over in comparison with administrative sources by age (females)

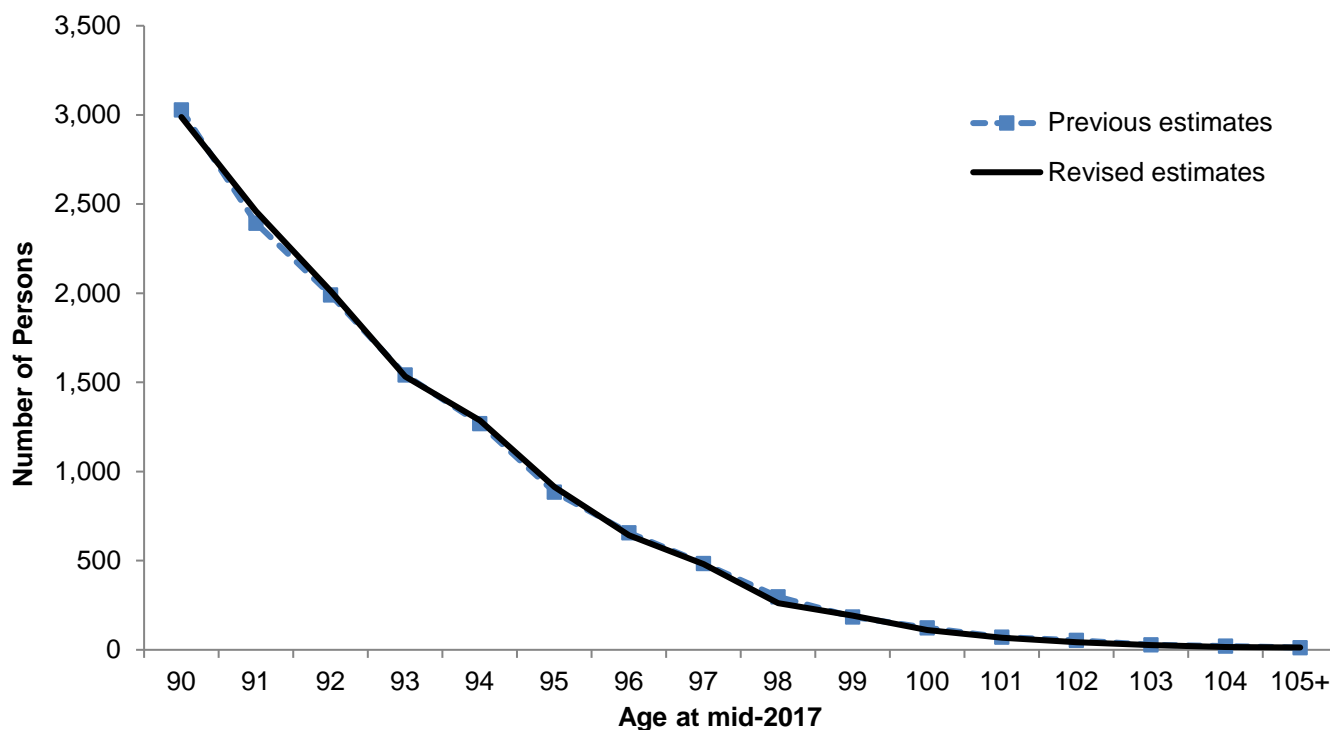


[Download Chart](#) (XLSX Format - 108 KB)

9.2. Quality Assurance of the Population aged 90 and over – revised⁵ mid-2001 to mid-2017

The Kannisto-Thatcher Survivor Ratio Method does not revise the total estimates of the age-group 90 and over which are already-published. However, there could be changes in the age distribution within this age group over the years. As such, it is classified as a scheduled revision⁶. Figure 13 plots the previous estimates for mid-2017 alongside the revised mid-2017 estimates.

Figure 13: Previous and revised estimates of the population aged 90 and over by age (mid- 2017)



[Download Chart](#) (XLSX Format – 91 KB)

Most differences are relatively small: the revised population estimate for those aged 90 to 94 in mid-2017 was 0.5 per cent lower than the previously published estimate (i.e. the estimated number of people aged 90 to 94 in mid-2017 decreased by 56 people in the revised estimate). The revised population estimate for those aged 95 to 99 in mid-2017 was 0.8 per cent higher than the previously published estimate (i.e. the estimated number of people aged 95 to 99 in mid-2017 increased by 19 people in the revised estimate).

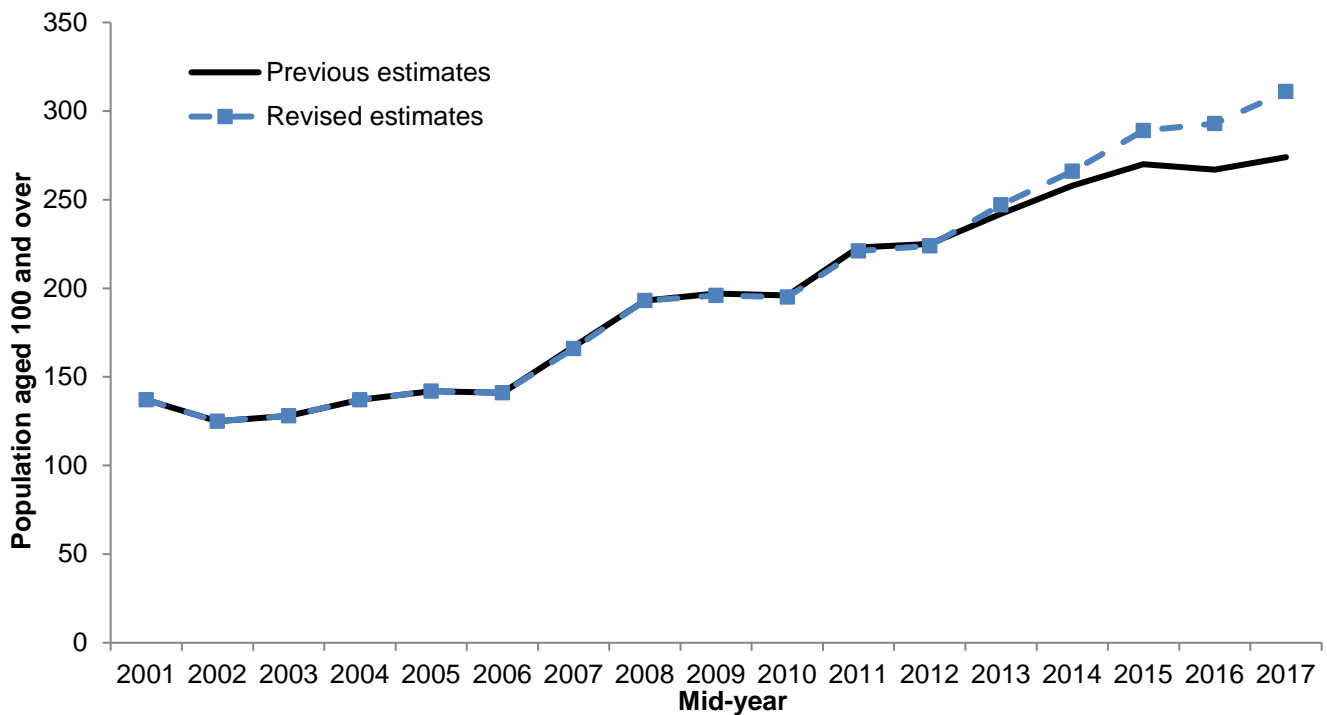
⁵ “Revised” estimates refer to the estimates of those aged 90 and over at single year of age from mid-2001 to mid-2017 that have been updated with the release of the mid-2018 population estimates at the same ages.

⁶ <http://www.ons.gov.uk/ons/guide-method/revisions/revisions-policies-by-theme/population/population-statistics-revision-policy.pdf>

The estimated number of centenarians in mid-2017 has been revised upwards by 13.5 per cent. This revision in the estimated number of centenarians for mid-2017 relates to an increase of 37 people aged 100 and over, from 274 in the previous estimates to 311 in the revised estimates.

Figure 14 shows the previous and current estimates of the number of centenarians over the period mid-2001 to mid-2017. It is evident that the difference between the two series becomes smaller when going further back in time, with negligible differences or identical figures prior to 2013.

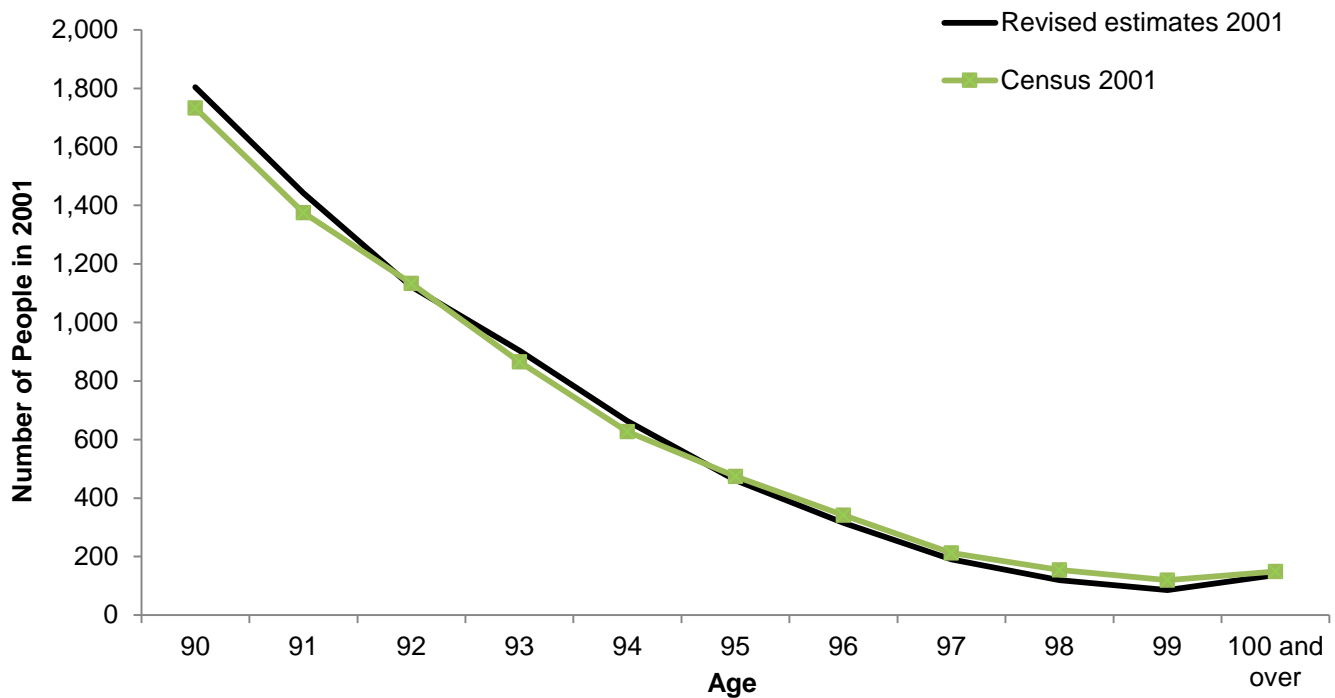
Figure 14: Previous and revised estimates of centenarians (mid-2001 to mid-2017)



[Download Chart](#) (XLSX Format – 91 KB)

The revised estimates are also quality assured against 2001 and 2011 Census data, and as can be seen in Figures 15a and 15b, the estimates are again broadly in line with both the 2001 and 2011 Census figures.

Figure 15a: Revised estimates of the population aged 90 and over by age (mid-2001 compared to the 2001 Census)



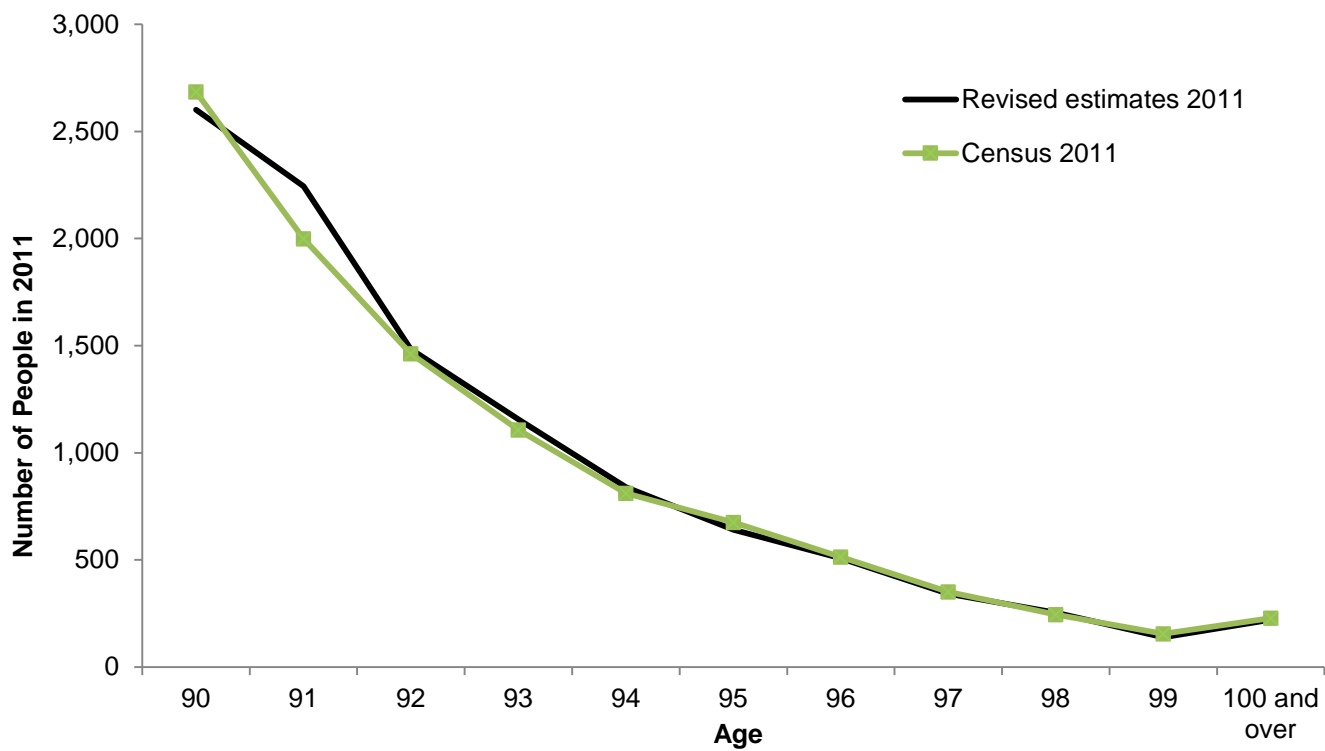
[Download Chart](#) (XLSX Format – 95 KB)

In 2001, the greatest percentage difference by five year age-bands is for male centenarians, where the revised estimates for males aged 100 and over in mid-2001 are 38.9 per cent smaller than the 2001 Census figures for the same age-sex band. This is understandable as the number of males aged 100 and over is very small (females make up the majority of people aged 100 and over).

This means that small changes in the numbers can equate to sizeable changes in percentage terms. In this instance the 38.9 per cent change relates to a difference of seven males aged 100 and over between the 2001 Census (18 males) and the revised estimates (11 males). Furthermore, as the 2001 Census refers to the population at 29 April 2001 and the mid-year estimates refer to the population at 30 June 2001, this may account for some of the difference in the number of people.

Males aged 100 and over again had the greatest percentage change in 2011, with the revised estimates of male centenarians in mid-2011 being 20.0 per cent smaller than the 2011 census figure of the same age-sex group (32 males and 40 males respectively). As with the 2001 Census figures, the 2011 figures do not refer to the population at mid-year, but instead to the population at 27 March 2011. This may account for some of the difference between the revised estimates for mid-2011 and the 2011 census figures.

Figure 15b: Revised estimates of the population aged 90 and over by age (mid-2011 compared to the 2011 Census)



[Download Chart](#) (XLSX Format – 95 KB)

10. Data Quality

10.1. Mid-Year Population Estimates

Mid-year population estimates are created using a variety of administrative data sources. A brief outline of these sources, and how quality is assured for each one, is detailed in the latest [mid-year population estimates statistical bulletin](#). A more comprehensive outline of these sources, including details of the quality management actions undertaken to ensure that the data is suitable for population estimates, is detailed within the [Administrative Data Quality Document](#).

10.2. Death Data Used in Kannisto-Thatcher Survivor Ratio Method

Information supplied at death registration is generally believed to be correct since wilfully supplying false information may render the informant liable to prosecution for perjury. Death figures by sex and single year of age are obtained from registrations with the General Register Office (GRO) and all that occurred over the 12 month period from 1 July to 30 June are included.

During registrations, information provided is first checked by the informant before being finalised on the GRO's electronic Northern Ireland Registration Office System (NIROS). Appropriate validation checks are embedded within the NIROS to help the Registrar with this process. Statistics are extracted directly from NIROS and are subjected to further checks by the Vital Statistics team in NISRA's Demography & Methodology Branch, and again by the Population and Migration team when the relevant data are supplied to them.

Quality Assessment Reports are available online and contain further details on the quality of [death](#) statistics.

Further checks are made on deaths registrations of people aged 100 and over. Such registrations are flagged by the Vital Statistics and sent back to the GRO in order to manually check their validity.

10.3. Quality Analysis by the Office for National Statistics

Northern Ireland estimates are sent to the Office for National Statistics (ONS) for further checks on the calculations and formula used at all stages of the process, in order to ensure the quality is of compatible standards with their own data (see the [ONS Quality and Methodology Information Paper](#) for more information). When these are completed, the population aged 90 to 104 at single year of age and 105 and over aggregated are fed into the UK Estimates of the Very Old, produced by ONS.

11. Links to related statistics

Statistics for the population aged 85 and over are available on the [NISRA Website](#).

An [infographic](#) highlighting the important figures and trends in the data has also been released.

Estimates of the population aged 85 and over for mid-2019, as well as a revised series for mid-2001 to mid-2019, are expected to be published in September 2020.

[Estimates of the Very Old for the United Kingdom](#) and its constituent countries are available from the Office for National Statistics (ONS), and for [Scotland](#) by National Records Scotland (NRS) have also been released on 25 September 2019. A [UK comparison paper](#) analysing the comparability between the four UK countries is also available.

[Mid-year population estimates for Northern Ireland](#) are available on the NISRA website. The estimates refer to the size of the usually resident population at 30 June and are therefore often referred to as the mid-year estimates. The most recent estimates, published in June 2019, relate to the population at mid-2018.

[Population projections for Northern Ireland](#) and [sub-national areas](#) (2016-based) are available from the NISRA website. The 2018-based population projections for Northern Ireland and sub-national areas will be published in October 2019 and April 2020 respectively.

[Population estimates for small areas in Northern Ireland](#) are available on the NISRA website and are released in November following the mid-year population estimates in June. Mid-2018 based population estimates will be released in November 2019.

How to find data

What are you looking for?

The tables and figures used throughout this publication in Excel format.

Population estimates in Open Data format (3* CSV).

Interactive data to engage with population estimates and compare geographies within Northern Ireland

Where is it?

[Tables and figures](#)

[Open Data NI](#)

Interactive data visualisations

1. [Components of Change](#)
2. [Population Totals](#)
3. [Population by age bands](#)
4. [Population Pyramid](#)

12. National Statistics

National Statistics status means that our statistics meet the highest standards of trustworthiness, quality and public value, and it is our responsibility to maintain compliance with these standards.

Population Estimates for Northern Ireland last underwent a full assessment by the Statistics Authority against the [Code of Practice](#) in July 2015. The assessment report can be found [here](#). Following the Statistics Authority assessment the continued designation of these statistics as National Statistics was confirmed in [August 2016](#).

National Statistics status was confirmed subject to NISRA implementing six specific requirements. An action plan outlining how and when NISRA addressed each of these requirements can be found [here](#).

An action plan checklist with supporting documentation can also be found on the [NISRA website](#).

Since the assessment by the UK Statistics Authority, we have continued to comply with the code of Practice for Statistics, and have made the following improvements:

- Improved clarity and insight by redesigning the statistical bulletin to include a key point's summary for users. In addition, key point headlines have been included throughout the commentary so users are alerted to key messages.
- The associated data tables for the 85 and over population estimates are disseminated in a more innovative way by including a flat file and tabular format which users can interact with.
- We have improved the accessibility of the 85 and over population estimates by publishing data in 3* open data format on Open Data NI. We have also included a new 'Links to related statistics' section within the bulletin so users can explore the whole population statistics package, including mid-year estimates, population projections, small area population estimates and a range of other material.

13. Limitations

Whilst this report concentrates on the significant increase in the population aged 85 and over, it is still important to recognise that the number of people aged 85 and over represents a small proportion of the total population (i.e. 2.0 per cent in mid-2018).

When considering change over time, it is important to note that the number of centenarians is relatively small when compared with other population age groups and, as such, small changes in the numbers can equate to sizeable changes in percentage terms.

Estimates of the Population Aged 85 and Over are not produced for areas within Northern Ireland due to the fact that:

- the Kannisto-Thatcher Survivor Ratio Method does not take into account migration;
- the small numbers of people aged 85 and over would be unreliable if split into geographies lower than Northern Ireland as a whole.

Estimates of the population aged 90 and over at single year of age are constrained to the aggregated number of males and females aged 90 and over produced in the mid-year population estimates, thus making them consistent. However, due to the different approaches used (i.e. cohort component method for mid-year estimates and Kannisto-Thatcher Survival Ratio method for estimates of the population aged 85 and over), the transition between the number of people aged 89 to 90 may not be as smooth as at other ages.

As the Kannisto-Thatcher Survival Ratio Method uses the most recent deaths data, this can include some late registrations of deaths occurring in previous years (for example, deaths referred to a coroner can mean the date of occurrence of a death is not available until several months after the registration of that death). This means that, in order to allow these statistics to be available on an annual basis, previous years' estimates are revised with each publication. While these means there may be minor changes in previous years' figures, it also means the numbers are continuously improving and becoming more accurate.

14. Enquires and suggestions

- The revisions policy for population statistics is available [here](#).
- We welcome feedback from users on the content, format and relevance of this release. Users can send feedback directly to census@nisra.gov.uk.
- Follow NISRA on [Twitter](#) and [Facebook](#).
- All media inquiries should be directed to the DoF Communications Office:
Telephone: 028 9081 6724
Email: dof.pressoffice@finance-ni.gov.uk
- Further statistical information can be obtained from NISRA Customer Services:
Telephone: 028 9025 5156
E-mail: census@nisra.gov.uk
Responsible Statistician: Jonathan Harvey