

## Population And Migration Statistics (PAMS) Committee (Scotland)

### Council Area Profiles update

#### Background

1. This paper provides an update on the relaunch of the [Council Area Profiles](#), which is published on the NRS website. We welcome suggestions on how we can increase the dissemination and impact of the Council Area Profiles.
2. The Council Area Profiles present key demographic trends in each of Scotland's 32 council areas, receiving thousands of page views each year.
3. The previous version of the Council Area Profiles was produced in Excel and PDF formats. This was cumbersome to update, prone to errors and looked outdated. Indeed, a number of errors were discovered in 2017 and NRS reverted to an earlier version from 8 June 2016.

#### Current progress

4. To address these issues, we decided to produce the Council Area Profiles as automated reports in HTML format. We used R and R Markdown to achieve this. Through the use of R Markdown, we have increased efficiency considerably; all 32 reports can now be updated in less than half an hour. The data used in all of the charts, tables and text are fed in directly from an Excel dataset and the text is now automated, so we have reduced the risk of errors. Moreover, we have produced more effective data visualisations and incorporated an interactive contents bar, for ease of use. **Annex A** consists of a screenshot of the landing page and a sample of the new Council Area Profiles for one of the council areas.
5. The new Council Area Profiles cover a more comprehensive range of statistics than what was included in the previous profiles. **Annex B** contains the full list of topics and data presented in the Council Area Profiles, as at 19 April 2018. The source dataset that we feed into the Council Area Profiles can be found at the bottom of the [Council Area Profiles landing page](#), in both Excel and CSV formats.
6. On 28 March 2018, we relaunched the Council Area Profiles, to coincide with the release of the 2016-based sub-national population projections.
7. We have received valuable feedback on the Council Area Profiles from PAMS users and **Annex C** includes some anonymous comments. We updated the Council Area Profiles on 19 April 2018, to coincide with the publication of the Mid-2017 Population Estimates. As part of this update, we made a number of improvements suggested by PAMS users:
  - In the Population Estimates chapter, the population pyramid now shows a 20-year comparison between 1997 and 2017.
  - We have provided links to all of the source tables.

- We have added links from each table to the corresponding charts.
- At the start of each chapter, we have added the date of last update and next likely update.
- We have increased some of the line widths in the charts, as some were unclear.

### **Proposed further improvements**

8. We plan to continue to use feedback to iteratively make improvements to the Council Area Profiles. The improvements we can make will depend on availability of resources, but we plan to investigate the feasibility of the following suggestions:
  - Inclusion of the male to female births ratio in the Births chapter.
  - Inclusion of dependency ratio data and how that is changing over time.
  - Inclusion of population and household projections over the next two decades rather than one decade.
  - Development of an R Shiny interactive web application.
  - Production of Council Area Profiles for combinations of council areas, such as all council areas in Ayrshire.

### **Next steps – further dissemination**

9. We would like to maximise the use and impact of the Council Area Profiles by widening its reach. We welcome suggestions of PAMS users on how we can further disseminate this tool. We also encourage PAMS users to share this tool with others within their councils and beyond. This can help tailor how we shape the Council Area Profiles going forward, to make them as useful as possible.
10. **We would really welcome any feedback on the council area profiles and suggestions for further dissemination of the tool, either at the PAMS meeting or via email to [statisticscustomerservices@nrscotland.gov.uk](mailto:statisticscustomerservices@nrscotland.gov.uk).**

NRS: Demographic Statistics  
May 2018

## ANNEX A Screenshots – Landing page for Council Area Profiles

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### Stats at a Glance

Registrar General's Annual Review

Scotland's Population - Key statistics

Infographics and Visualisations

**Council Area Profiles**

Demographic and census profiles of EEA-born residents in Scotland

Sub-Scotland Data Sources

Time Series Datasets

## Council Area Profiles

Last updated 19 April 2018



This page consists of profiles for each Scottish Council area. They contain data on population, births, deaths, life expectancy, migration, marriages, civil partnerships, households and dwellings.

**Disclaimer**

The method used to create these profiles is still under development and unfortunately do not allow us to make them fully accessible at this point. We are working to correct this. If you have any comments on how we could improve their accessibility or any other comments or suggestions please contact the Statistics customer services email: [statisticscustomerservices@nrscotland.gov.uk](mailto:statisticscustomerservices@nrscotland.gov.uk).

The full profiles are available as HTML files. Maximum file size 2.89 MB.

[Aberdeen City](#)  
[Aberdeenshire](#)  
[Angus](#)  
[Argyll and Bute](#)  
[City of Edinburgh](#)  
[Clackmannanshire](#)  
[Dumfries and Galloway](#)  
[Dundee City](#)

An excel workbook and Comma Separated Value (CSV) files of the data set are available. Maximum file size 15 MB.  
([Excel](#) [CSV](#))

# ANNEX A. Screenshots – Sample from Council Area Profiles

Population Estimates
Population Projections
Births
Deaths
Life Expectancy
Migration
Marriages and Civil Partnerships
Household Estimates
Household Projections
Dwellings
Tables

## City of Edinburgh Council Area Profile



Please note: In smaller council areas (e.g. Shetland Islands), there are large fluctuations in the data. This is because small changes have a much larger effect in small populations than in large ones (e.g. Glasgow City).

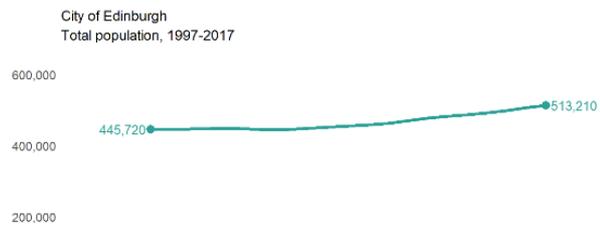
### Population Estimates

Last updated: April 2018  
Likely next update: April 2019

#### Mid-2017 Population Estimates by Council Area in Scotland

On 30 June 2017, the population of City of Edinburgh was 513,210. This is an increase of 1.2% from 507,170 in 2016. Over the same period, the population of Scotland increased by 0.4%.

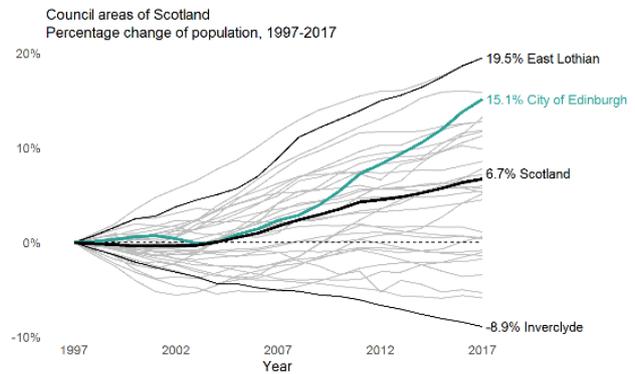
[View Source Table](#)



Population Estimates
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Between 1997 and 2017, the population of City of Edinburgh has increased by 15.1%. This is the 4th highest percentage change out of the 32 council areas in Scotland. Over the same period, Scotland's population rose by 6.7%.

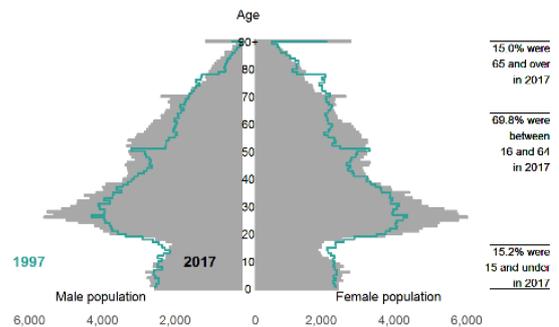
[View Source Table](#)



In 2017, there were more females (51.3%) than males (48.7%) living in City of Edinburgh. There were also more females (51.3%) than males (48.7%) living in Scotland overall.

[View Source Table](#)

City of Edinburgh Population profile, 1997 and 2017



## **ANNEX B. List of topics and data used in Council Area Profiles, as dated at 19 April 2018**

<https://www.nrscotland.gov.uk/statistics-and-data/statistics/stats-at-a-glance/council-area-profiles>

### Population estimates

- Estimated population, 1997-2017
- Percentage change of estimated population, 1997-2017
- Estimated population by single year of age, 1997 and 2017
- Estimated population by age group by sex, 2017
- Percentage change in estimated population by age group, 1997 and 2017

### Population projections

- Projected population, 2016-2026 (2016-based)
- Percentage change in projected population, 2016-2026 (2016-based)
- Components of projected population change, 2016-2026 (2016-based)
- Projected population by single year of age, 2016 and 2026 (2016-based)
- Projected population by age group, 2016 and 2026 (2016-based)
- Percentage change in projected population by age group, 2016 and 2026 (2016-based)

### Births

- Births by sex, 2016
- Standardised birth rates, 1996-2016
- Births by age group of mother, 1996 and 2016
- Percentage change in the number of births by age group of mother, 1996 and 2016
- Total fertility rates, 1996-2016

### Deaths

- Deaths by sex, 1996-2016
- Standardised death rates, 1996-2016
- Deaths by sex, 1996 and 2016
- Percentage change in the number of deaths by sex, 1996 and 2016
- Deaths by age group by sex, 2016

### Life expectancy

- Life expectancy at birth, 2001-03 to 2014-16
- Percentage change in female life expectancy at birth, 2001-03 to 2014-16
- Percentage change in male life expectancy at birth, 2001-03 to 2014-16
- Life expectancy at age 65-69, 2001-03 to 2014-16
- Percentage change in female life expectancy at age 65-69, 2001-03 to 2014-16
- Percentage change in male life expectancy at age 65-69, 2001-03 to 2014-16

### Migration

- Total in and out migration, 2001-02 to 2015-16
- Total net migration, 2001-02 to 2015-16
- Net migration rates, 2008-09 to 2015-16
- Total net migration by age group by sex, 2015-16

### Marriages and civil partnerships

- Number of marriages, 1996-2016
- Number of civil partnerships 2005-2016

### Households estimates

- Household estimates, 2001-2016
- Percentage change in household estimates, 2001-2016

### Household projections

- Projected number of households, 2014-2024 (2014-based)
- Percentage change in projected households, 2014-2024 (2014-based)
- Projected number of households by household type, 2014 and 2024 (2014-based)
- Percentage change in projected number of households by household type, 2014 and 2024 (2014-based)
- Projected number of households by age group of Household Reference Person (HRP), 2014 and 2024 (2014-based)
- Percentage change in projected number of households by age group of Household Reference Person (HRP), 2014 and 2024 (2014-based)

### Dwellings

- Number of dwellings, 2001-2016
- Percentage change in number of dwellings, 2001-2016
- Percentage of dwellings by Council Tax band, 2016
- Percentage of dwellings by dwelling type, 2016

## **ANNEX C. Feedback from PAMS council area representatives**

- “Excellent visuals (charts) with good concise narrative and easy to interpret.”
- “Easy to navigate with the contents table remaining on the left hand side as the user scrolls down.”
- “In general, the line graphs where all 32 councils are shown look a bit busy.”
- “I am sure the Council would like profiles like this for Data Zones - is that on the horizon?”
- “[I] like the hyperlink function that takes the user to the ‘Source table’, which provides the raw data.”
- “Benchmarking with other areas provided in some charts is useful, although only a few areas are named.”
- “These look good – I like the one-page style with the anchor links – works well.”
- “They look very good. Well done. The links to and from each of the sections are ideal, as are the Source Links.”
- “Horizontal labels of years in life expectancy and migration charts look a little cluttered but are useable”.
- “There is a large space after/between the last data table “Dwellings by type” and the bottom of the page.”
- “On the whole the feedback is very positive for the new format. It took a bit of getting used to, with all the data tables being at the bottom, as many of the data users just want the tables rather than the infographics.”
- “The information associated with each table is accurate and precise and easy to understand.”
- “The images are simple, and accessible.”
- “Is there any Economic data you could add?”
- “Can you add some commentary to explain the reasons for the changes - e.g. Tables showing Changes to Household Type & Household Projections?”
- “They look very good and obviously a lot of work has gone into them so thanks very much for producing them. They should save a lot of work out in the council areas.”
- Inclusion of a “quick highlight” graphic or paragraph, highlighting the key facts of the Council Area Profiles.