

Population estimates and components of population change for reconciliation

Detailed time series for reconciliation

England and Wales, local authorities, sex and age

Introduction

- **The mid-year estimates for mid-2021 contained in this file are not the official mid-year estimates rolled forward from the 2021 Census.**
- The estimates provided here show what our population estimates for mid-2021 would have been if we had rolled forward from mid-2020 using our existing data and methods. They are provided to facilitate the reconciliation of mid-year estimates rolled forward from the 2011 Census with those rolled forward from the 2021 Census.
- A reconciliation exercise is underway that will look to explain why the estimates presented in this file differ from the official mid-2021 estimates rolled forward from the 2021 census. Further details on this work can be found in [Rebasing and reconciliation of mid-year population estimates following Census 2021, England and Wales – an update for users of population statistics.](#)
- This data builds on the population estimates and components of change previously published by ONS covering the period 2001 to 2020 by adding the most recent data from the mid-2021 population estimates.
- Once the reconciliation and rebasing work is complete, we will publish a version of this data that is consistent with the mid-2021 population estimates rolled forward from the 2021 Census.

MYEB2: Detailed components of population change England and Wales, local authorities as of April 2021

MYEB2_detailed_components_of_change_for_reconciliation_EW_(2021_geog21).csv

Definition of dataset

Sort order of dataset: local authority code (as of April 2021), sex (female=1, male=2), and age (0-90+).

Data cells: 60,242 rows and 234 columns of data plus headings. Care should be taken if importing this file into a software package to ensure that all rows and columns have been successfully imported.

Format: CSV

Variables:

Variable	Definition
ladcode21	ONS Geography code for local authorities (LA) as defined at April 2021. Further information on the LA codes and how they link to other ONS geographies is available from the ONS Geoportal .
laname21	Local authority or unitary authority name (April 2021).
country	Country coding: 'E'=England, 'W'=Wales.
sex	Gender coding: 1=Female and 2=Male.
age	Value 0 to 90 corresponding to single year of age at the mid-year reference point. Age 90 refers to estimates for those aged 90 and above.
population_20xx	Estimated mid-year population: e.g., where population_2018 is the estimate for 30 June 2018.
births_20xx	Estimated number of births occurring in the twelve months to mid-year.
deaths_20xx	Estimated number of deaths occurring in the twelve months to mid-year.
internal_in_20xx	Estimated inward moves originating elsewhere in the UK during the twelve months to mid-year.
internal_out_20xx	Estimated outward moves terminating elsewhere in the UK during the twelve months to mid-year.
internal_net_20xx	Difference between internal_in_20xx and internal_out_20xx.
international_in_20xx	Estimated international immigration moves originating from outside the UK during the twelve months to mid-year. Not available for mid-2021.

international_out_20xx	Estimated international emigration moves terminating outside the UK during the twelve months to mid-year. Not available for mid-2021.
international_net_20xx	Surplus of immigration moves over emigration moves taken as the difference of previous two variables.
special_change_20xx	Estimated net effect of changes to special populations during the twelve months to mid-year. Special populations comprise prisoner, armed forces and their overseas based dependent populations.
unattrib_20xx	Estimated population change not attributed to a specific cause in the twelve months to mid-year. This applies to series years 2002 to 2011 and reflects the residual remaining from the original 2001 Census based MYE series and the revised 2011 Census based series. This column is not applicable to estimates after mid-2011.
other_adjust_20xx	Includes small adjustments necessary to account for issues such as minor LA boundary changes and large postcode areas that overlap LA boundaries.

xx=series year: 2001-2021 for population; 2002-2021 for components (except un_attrib 2002-2011 and international_in and international_out for 2021).

Deaths

Death occurrences in a small minority of cells show a negative count. These are as a result of previously provisional data being updated in subsequent periods to account for late death registrations and reallocated counts.

International migration

Estimates for international in/out/net migration are adjusted for visitor switcher, migrant switcher, asylum seeker and refugee flows.

Special change

Net special change figures include the effect of change in the estimated special populations from one year to the next that are reflected in the general population of England and Wales. Those joining and leaving the special population will create resulting inflows and outflows into and from the general population.

Useful links

An [Overview of Population Statistics](#) is available on the ONS website.

Latest publications and summaries of population estimates are available on the [ONS Population and Migration](#) webpage.

The official mid-2021 population estimates data for the United Kingdom (UK) are available on the [ONS Population Estimates for UK](#) webpage. For England, Wales and Northern Ireland these estimates have been rolled forward from the 2021 census bases; the estimates for Scotland have been rolled forward from the mid-2020 population estimate. Published tables for mid-2021 include UK countries by single year of age and sex, region and local authority, and components of population change. Where possible, tables are published at unit level detail to enable re-use of the data.

Population estimates methods are available from the [ONS Population Estimates methodology](#) webpage.

Further information on the quality of mid-year population estimates can be found in the [ONS Quality and Methodology Information reports](#) webpage.

Further information on the LA codes and how they link to other ONS geographies is available from the [ONS Geoportal](#).

Notes and Definitions

These datasets provide the most detailed population estimates and components of change for the mid-year population series for 2001-2021 and are consistent with the results of the 2011 Census.

NOTE – The estimates in this file are not consistent with the results of the 2021 census and the mid-2021 estimates presented here are not the official estimates for mid-2021. The estimates for 2012 to 2021 presented in this file will be revised as part of reconciliation and rebasing exercise. Further information on this can be found in [Rebasing and reconciliation of mid-year population estimates following Census 2021, England and Wales – an update for users of population statistics](#).

These datasets bring together data that have already been made available separately in previously published releases:

- The mid-2017, mid-2018, mid-2019 and mid-2020 population estimates releases.
- Revised Mid-2012 to mid-2016 UK population estimates published on 22 March 2018.
- Mid-2011 UK population estimates published on 26 June 2014.
- Revised mid-2001 to mid-2010 population estimates published on the 17 December 2013, all available [here](#); and
- [Ad hoc table 001875](#) published on the 22 October 2013.

These unrounded estimates are published to enable and encourage further calculations and analysis. However, the estimates should not be taken to be accurate to the level of detail provided. More information on the accuracy of the estimates is available in the [Quality and Methodology Information](#) document. Appropriate methods of disclosure control have been applied to prevent inference of information relating to individuals.

The estimated resident population of an area includes all people who usually live there, whatever their nationality. People arriving into an area from outside the UK are only included in the population estimates if their total stay or intended stay in the UK is 12 months or more. Visitors and short-term migrants (those who enter the UK for 3 to 12 months for certain purposes) are not included. The components of change provided in the file relate to the usual resident population only and will not show, for example, short-term migrants as part of the international migration flow.

Similarly, people who leave the UK are only excluded from the population estimates if they remain, or intend to remain, outside the UK for 12 months or more. This is consistent with the United Nations recommended definition of an international long-term migrant. Members of UK and non-UK armed forces stationed in the UK are included in the population, and UK forces stationed outside the UK are excluded. Students are taken to be resident at their term time address.

Further advice on the appropriate use of these data can be obtained by emailing pop.info@ons.gov.uk or phoning +44 (0) 1329 444 661.

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