Superhighways Webinar

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Today's webinar

- Introduction to the Office for National Statistics (ONS)
- Introducing the census
- Census 2021
- Publishing Census 2021
- ONS data and tools
- Questions and discussion



Who are we?



Introduction to the ONS

The Office for National Statistics (ONS) is the UK's largest independent producer of official statistics. At ONS we collect and publish data about lots of topics, including:

- Prices of goods and products
- People and society
- Health and education





Using ONS Data

We make our data available for everyone to use and it's vitally important to us that you are able to access the data you need.

We publish data in various formats including:

- Data sets
- Statistical bulletins and analysis
- Data visualisation and interactive tools









How do we do this?

We collect this data in several ways, including through:

- Surveys
- Research
- Administrative data

Most of our surveys are voluntary and cover a variety of topics like the economy, employment and lifestyle. We also run the census in England and Wales.



The census



The census explained



- Population and migration statistics help us to accurately reflect the needs of everyone in society.
- One of the primary ways we collect statistics on population and migration is the census.
- The ONS is responsible for conducting the census in England and Wales every 10 years.
- Northern Ireland hold their own census around the same time. Scotland's census was in 2022.
- The census is important to local authorities, public bodies, businesses, voluntary organisations and academia amongst others.



Why we have a census

The census provides information that organisations, companies and government need to:

- Shape policy
- Allocate resources
- Plan services
- Monitor equality





Publishing census data



Keeping your personal information safe Before we publish our statistics, we make sure that they don't include any personal information.

Record swapping

To protect persons and households with unique or unusual characteristics Cell key perturbation

To protect against disclosure by differencing

Disclosure checks

To protect against sparse tables that allow identification



Phase 1 & 2: First results and topic summaries

Univariate data

- <u>Unrounded data</u>
- Supporting information
- <u>Univariate data covering 8 topics</u>
- Statistical bulletins
- Interactive products





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Phase 1 - First results

On 28 June 2022, we published the first results from Census 2021, in English and in Welsh.

Data

Population estimates, by sex and 5-year age groups, and household estimates for local authorities in England and Wales, rounded to the nearest 100.

Statistical bulletins

Reporting on:

- population size and change
- age and sex of population
- population density
- number of households

Supporting information

- Quality and methodology information report
- Maximising the quality of Census 2021 population estimates
- Local authority comparison tool

Interactive content

- How the population changed where you live scrolly-telling article
- Population map game

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Topic summaries

A topic summary is a set of data and supporting commentary grouped by a similar theme. Throughout autumn and winter 2022/2023, we have published a variety of topic summaries.

You can find information about the different topic summary releases



Find out what the census is and why it's important for Find data for Census 2021.

- Get census data (England and Wales)
- Get census data (Wales)

Census topics

Find census data and analysis using these topics.

<u>Topic summaries</u>

Office for National Statistics outreach.engagement.community@ons.gov.uk

all of us.

About the census

Census releases

Release calendar

First results and timeline

See what we've published, and our plans for the future.

Topic summaries

You can find statistical bulletins, datasets and methodology about the topics below by clicking on the links on the <u>Topic</u> <u>summaries web page</u>.

- demography and migration
- UK armed forces veterans
- ethnic group, national identity, language and religion
- Welsh language
- labour market and travel to work
- housing
- sexual orientation and gender identity
- education
- · health, disability and unpaid care

ons.gov.uk/census/aboutcensus/censusproducts/topicsummaries

CENSUS 2021 Data and analysis from Census 2021

Home > Census > About census > Census products > Topic summaries

Topic summaries

What topic summary data for Census 2021 will be available and how to view them.

Topic summaries

Topic summaries specifications spreadsheet (184.6 kB xlsx)

A topic summary is a set of data and supporting information, grouped by a similar theme. The majority of the datasets that we will release as part of each topic summary will contain data about just one variable.

The following pages will be updated with the relevant data and supporting information when that topic summary is published. Check the release calendar to learn more about publication dates.

Proposed topic summaries in publication order are:

- demography and migration
- UK armed forces veterans
- ethnic group, national identity, language and religion
- Welsh language
- labour market and travel to work
- housing
- sexual orientation and gender identity
- education
- health, disability, and unpaid care

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Phase 2 – Deeper dive

We publish analysis and introduce granularity from Census 2021, in English and in Welsh.

Data

Developing subnational multivariate data on housing, education, identity, work, health, marriage by area across England and Wales.

Supporting information

- Analysis reports
- Maximising the quality of Census 2021 population estimates
- Census 2021 dictionary

Statistical bulletins

Reporting on:

- Local detailed variables
- Sexual orientation and gender identity
- Industry changes by reliance on age

Interactive content

- Build a custom area profile
- Webinars
- Census maps

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Phase 3 data



Later in 2023 we plan to publish further data, for example:

- Small populations; groups that are defined by their cultural background.
- Detailed migration statistics; provide the characteristics of people or households who have moved within the UK or from another country into the UK during the year before the census.
- Origin destination data or flow data; describes the movement of people from one location to another.
- Microdata samples; anonymised individual level records sampled from a single census



Analysis programme

From 2023 to 2025 we plan to publish analytical articles across 13 topic areas.



- Analysis will come in various forms, articles, interactive content and data tables help pull out key findings from census data.
- Early analytical articles focus on Census 2021 main findings about the usual resident population, then they will build in complexity, incorporating cross-cutting analyses, data linkage and longitudinal comparisons
- We have started publishing early analysis articles already

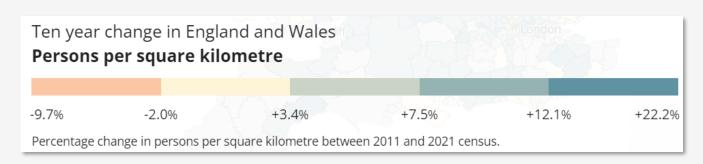


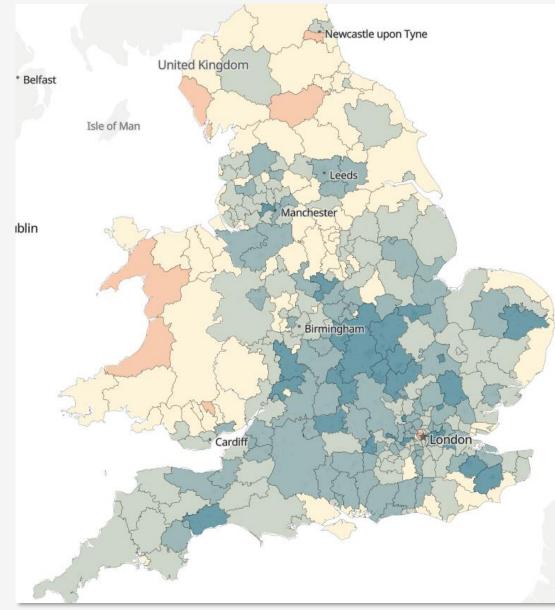
Census 2021 results compared to 2011 Census



Population change, England & Wales, Census 2011 vs 2021

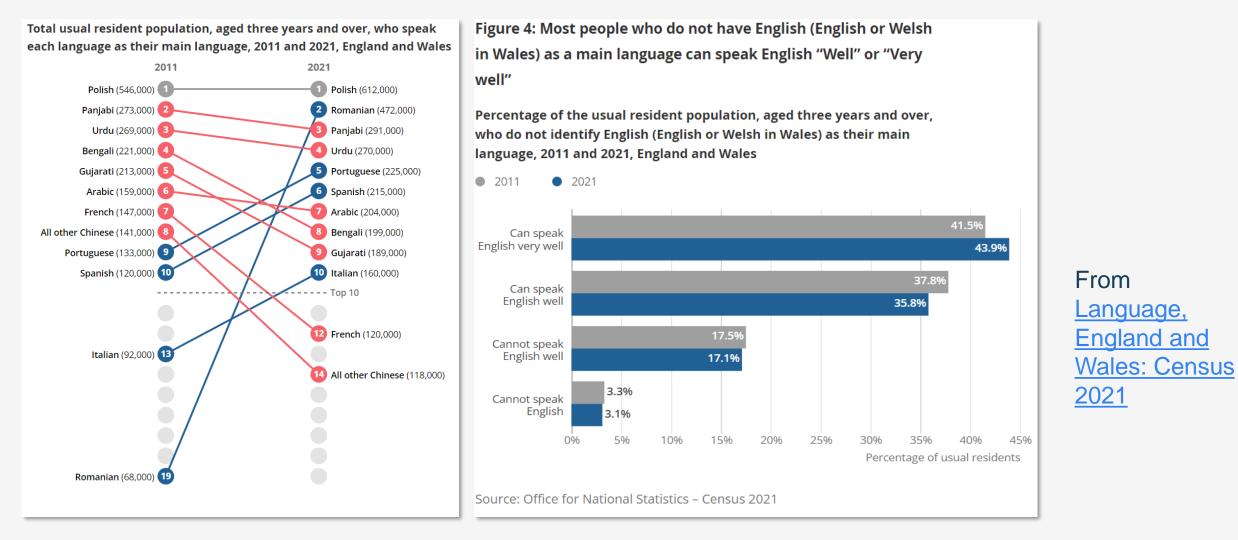
- The population of England and Wales grew by more than 3.5 million since the last census in 2011
- □ The population grew in each of the nine regions of England and also grew in Wales; the region with the highest population growth was the East of England, which increased by 8.3% from 2011 (a gain of approximately 488,000 residents).
- Only 26 Local Authorities saw a decrease in population density from 2011





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Language, England and Wales: 2011 Census vs Census 2021



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Religion, England and Wales, 2011 2011 Census vs Census 2021

The religion question is voluntary and was answered by 94.0% of the usual population. An increase on 2011.

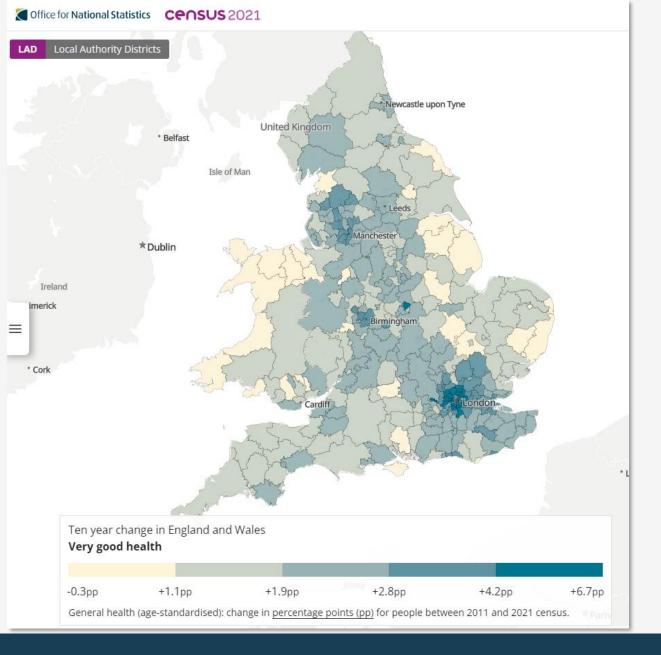
London remains the most religiously diverse region of England with 25.3% of all usual residents reporting a religion other than "Christian".

2011	2021		
Buddhist	0.4% (249,000) 0.5% (273,000)		
Christian	59.3% (33.3 million)		
		46.2% (27.5	5 million)
Hindu	1.5% (818,000) 1.7% (1.0 million)		
Jewish	0.5% (265,000) 0.5% (271,000)		
Muslim	4.9% (2.7 million) 6.5% (3.9 million)		
Sikh	0.8% (423,000) 0.9% (524,000)		
Other religion	0.4% (241,000) 0.6% (348,000)		
No religion	25.2% (14.1 milli	on) 37.2% (22.2 million)	
Not answered	7.1% (4.0 million) 6.0% (3.6 million)		
C	0% 10% 20%		9% 50% 60% Percentage of usual residents

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Religious composition, 2011 and 2021, England and Wales



Improvement in health seen in most areas

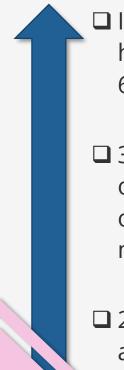
After standardising for age differences most areas saw improvements in those reporting good health.

This does not mean there are not more people in poorer health – simply that once controlling for age the trend is different.

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Housing change 2011 Census vs Census 2021

Increases:



In 2021, there were 24.8 million households in England and Wales (up 6.1% from 23.4 million in 2011)

32.8% of households (8.1 million) owned the accommodation they lived in outright, an increase from 30.8% (7.2 million) in 2011

20.3% (5.0 million) rented their accommodation privately, up from 16.7% (3.9 million) in 2011

Decreases:

 29.7% (7.4 million) owned their accommodation with a mortgage or loan or shared ownership, which is a smaller proportion than in 2011 (33.5%, 7.8 million)

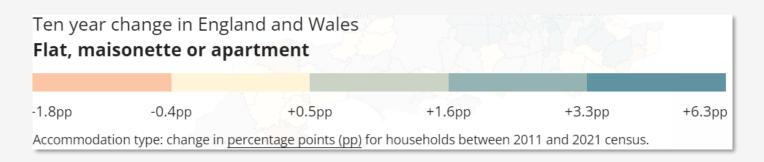
□17.1% (4.2 million) were in the social rented sector, for example through a local council or housing association; this is a smaller proportion than in 2011 (17.6%, 4.1 million)

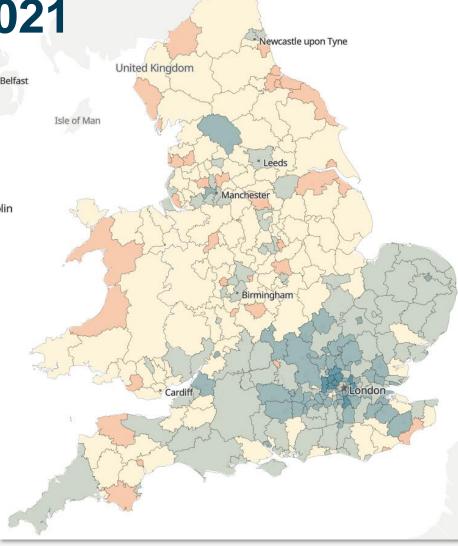
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Accommodation type, England and Wales, 2011 Census vs Census 2021

Almost 8 in 10 households lived in houses or bungalows, however the proportion decreased across the last decade (from 78.6%, 18.4 million in 2011 to 77.9%, 19.3 million in 2021).

 The largest increase for any type of accommodation was for households in a flat, maisonette or apartment. In 2021, 21.7% (5.4 million) of households were in a flat, maisonette or apartment, up from 21.0% (4.9 million) in 2011.





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Navigating ONS data



How to access the data



Census 2021 outputs come in a range of different formats. Broadly speaking, outputs consist of:

- raw data from the census
- detailed analysis and further information about what the data shows
- information explaining how the data is categorised and defined
- interactive resources that help users visualise what the data shows for different areas
- materials and resources to help users communicate about the census.

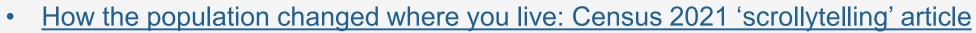
Each of these outputs allows users to access and understand different elements of the census.



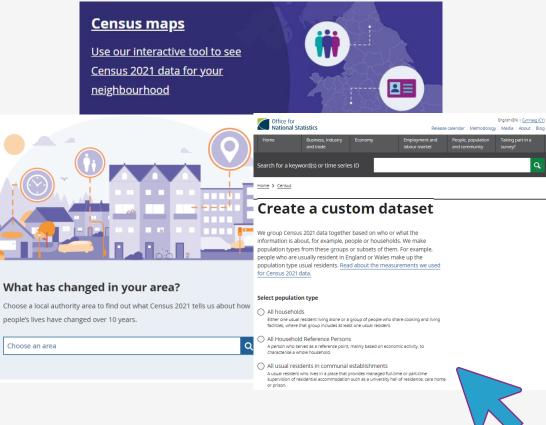
ONS website products

There are a range of interactive content and tools available on the ONS website.

- <u>Custom data sets</u>
- <u>Census maps</u>
- <u>Change over time reports</u>
- <u>Area profiles</u>



- The story of the Census 'scrollytelling' article
- <u>Census 2021 dictionary</u>



Create a custom data set

- Simply select a population to get started. These include usual residents, households and communal establishments.
- From there, you can change the geography of your dataset and filter the data by sex and age. You can also add as many variables as you want.

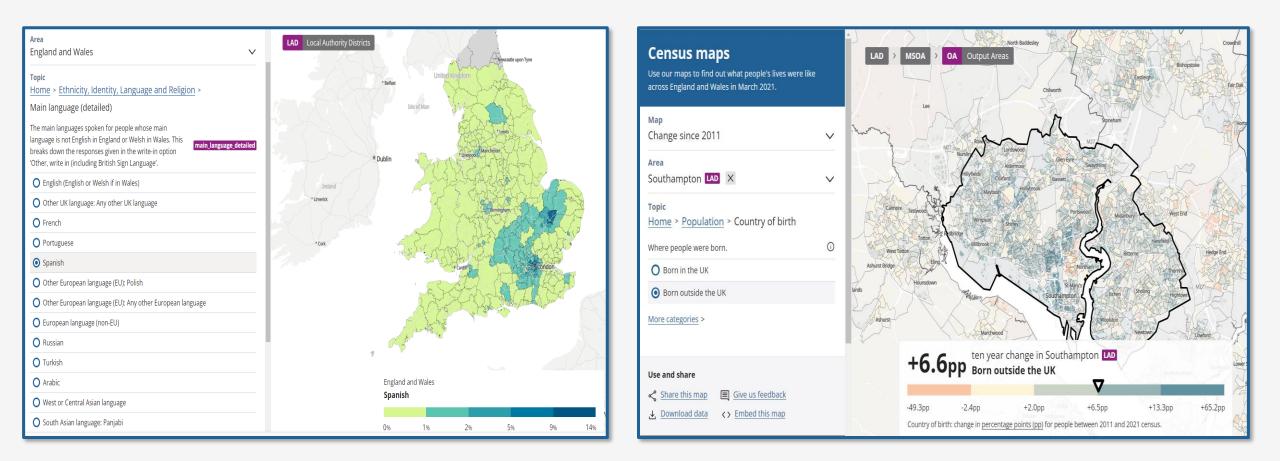


Play the create a custom data set video

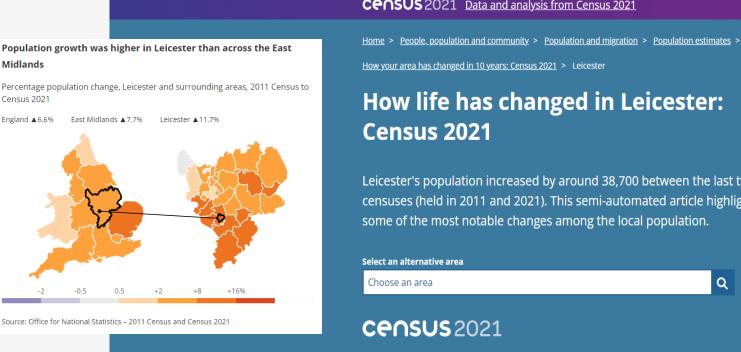
Read the blog on how to create a custom data set

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Census maps



Population and community changes between censuses 2011 and 2021



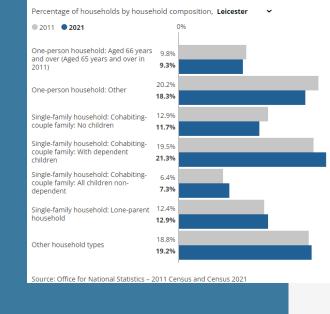
19 January 2023

CENSUS 2021 Data and analysis from Census 2021

Leicester's population increased by around 38,700 between the last two censuses (held in 2011 and 2021). This semi-automated article highlights



The percentage of households including a couple with dependent children in Leicester increased by 1.8 percentage points



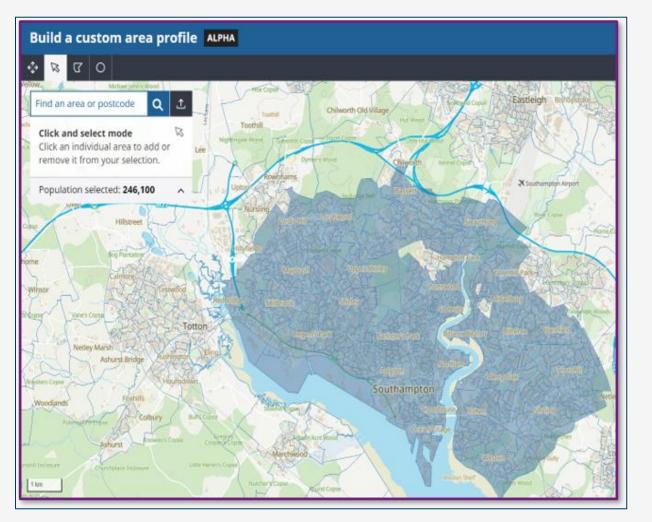
Office for National Statistics

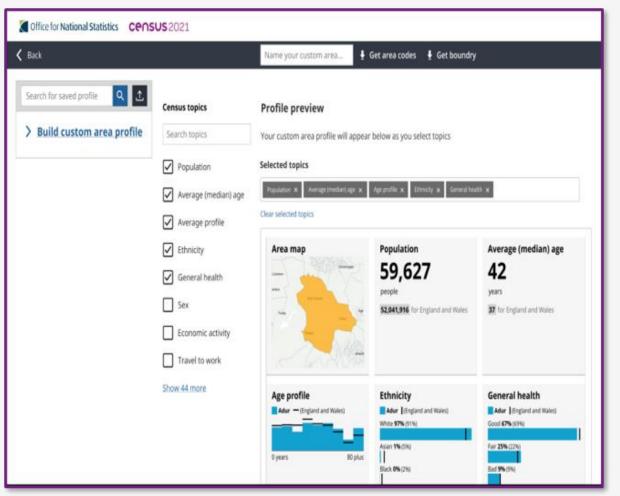
Midlands

Census 2021

England A 6.6%

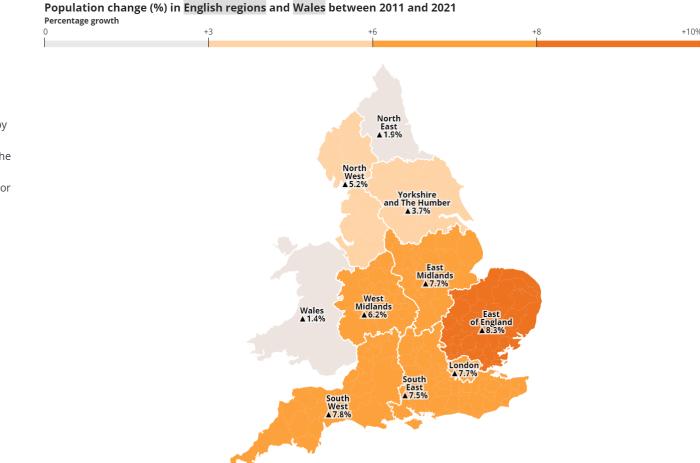
Build a custom area profile





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Scrolly-telling population changes

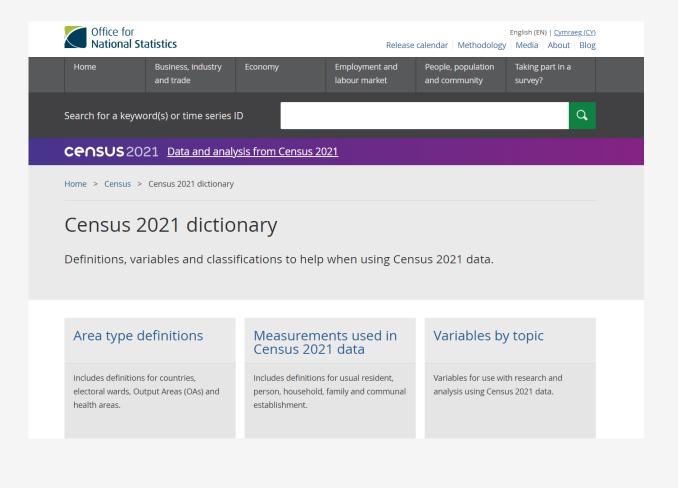


The English region with the largest population increase was the East of England, which grew by around 8.3% or 488,000 more residents. The English region with the smallest increase was the North East, growing by 1.9% or around 50,000 people. In Wales, the population grew by 1.4% or 44,000 people.

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Census 2021 Dictionary

The Census 2021 Dictionary provides definitions, variables and classifications to help you when navigating Census 2021 data.



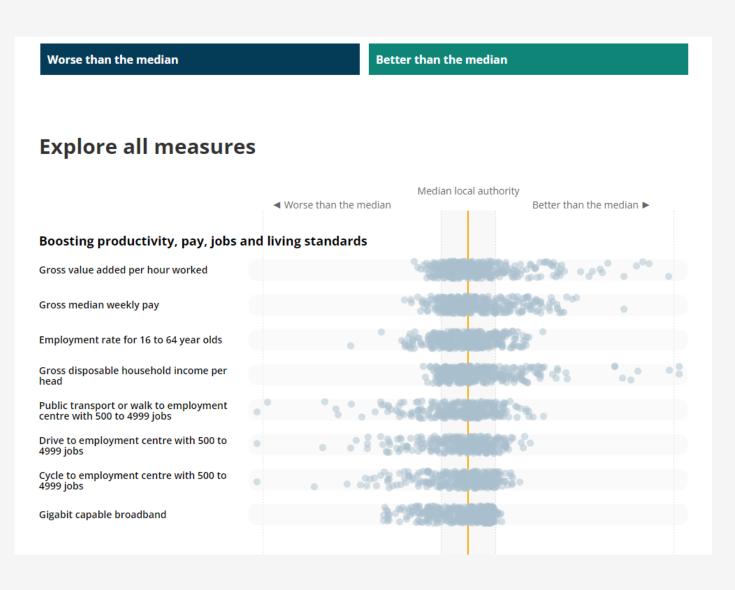


Wider ONS data



Subnational indicators explorer

Use our interactive tool to find out more about your local authority



Find facts and

figures about areas in England and Wales

Get data about people and the communities they live in, includes population, identity, housing, people in or out of work, education and health

Facts and figures for Blackpool



Census maps View Census 2021 data for Blackpool on a map.



Changes over time

since the 2011 Census.

Read how Blackpool has changed



Custom profiles

Build a custom area profile for **Blackpool** using Census 2021 data.



View Census 2021 data tables for

Blackpool on Nomis, an ONS

Area profiles [2]

service (external).

Subnational indicators

Find out how **Blackpool** compares on indicators such as weekly pay and healthy life expectancy.



Mortgage calculator

See how average house prices and changing interest rates affecting monthly mortgage repayments **in Blackpool**.



Census quiz Take our quiz and test your knowledge of Blackpool.



<u>Health index</u>

See how **Blackpool** compares to the rest of England on different health measures.



Income deprivation

Explore income deprivation **in Blackpool** at a neighbourhood level.

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Cost of living - Personalisation

The cost-of-living crisis does not affect people or businesses equally. We want people to be able to place themselves within the data to generate more personalised insights

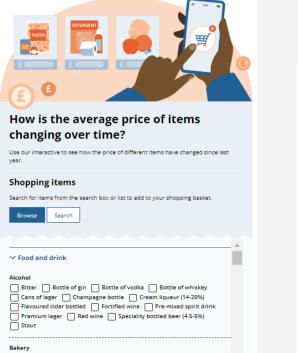


Bitter Bottle of gin Bottle of vodka Bottle of whiskey
Cans of lager Champagne bottle Cream liqueur (14-20%)
Flavoured cider bottled Fortified wine Pre-mixed spirit drink
Premium lager Red wine Speciality bottled beer (4.5-5%)



Personalisation tools – see what's changed

Changes to shopping prices



Bread rolls (white or brown) Crumpets Individual cakes Large white unsliced bread Pack of wraps/tortillas Sponge cake White sliced bread Wholemeal sliced bread

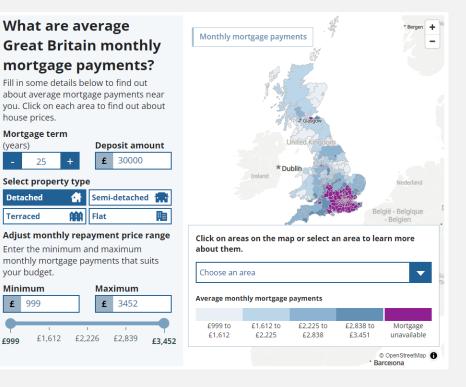
Your basket

Average prices of items in April 2023 and the latest annual growth rate.





Average monthly mortgage prices near you



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(years)

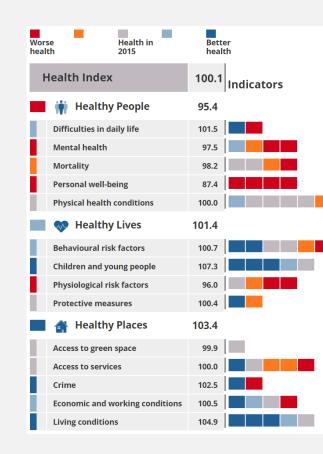
£999

The Health Index for England

Provides a single value for health in England and local authorities each year, broken down into different areas:

- Healthy people
- Healthy lives
- Healthy places

Office for National Statistics





What is my area's Health Index score?

Choose an area to see how different aspects of health have changed. The topics shown are selected based on rules pre-programmed by Office for National Statistics (ONS) staff, and the text is generated using semi-automated journalism.





Future of population statistics



Transformation of population statistics



National to local Population and Migration Statistics

Understanding demographic change and respond to challenges



Population subgroups and characteristics

Reflecting the diversity of populations to local levels



Housing, accommodation and living arrangements

Understanding who and how people live together in our society

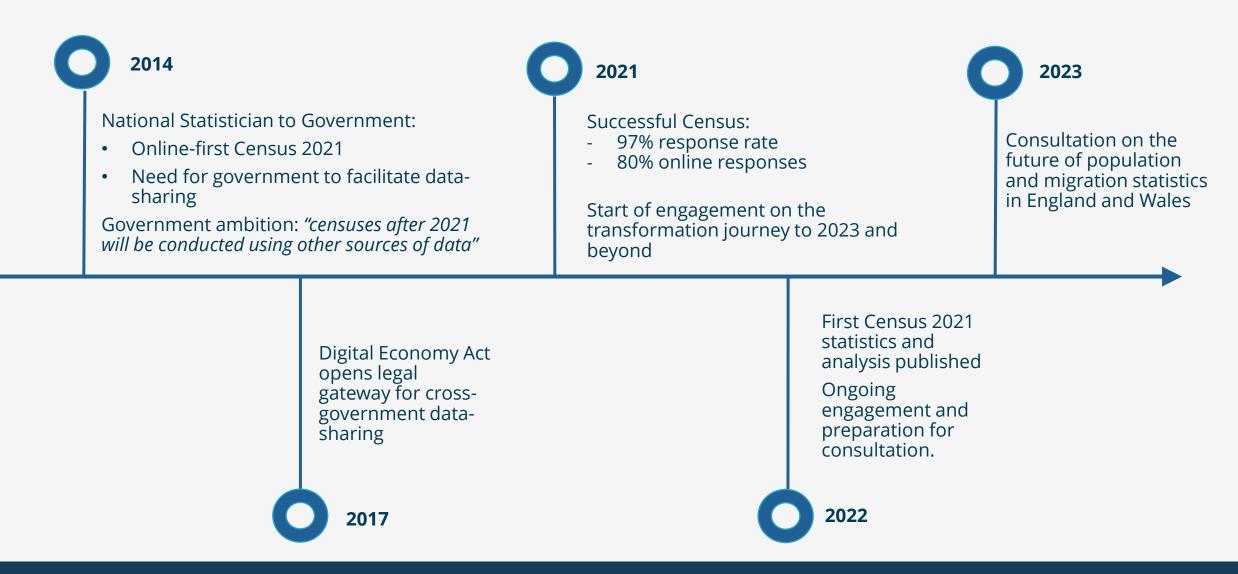


Outcomes

Data assets that allow us to understand population life journeys and outcomes



Transformation timeline





Consultation objective

- To understand how close our proposed system is to meeting user's needs:
 - How does the proposal meet/not meet your needs?
 - What you need
 - Why you need it
- To understand the future requirements of users to inform and prioritise our research plans
- To hear from a wide range of respondents

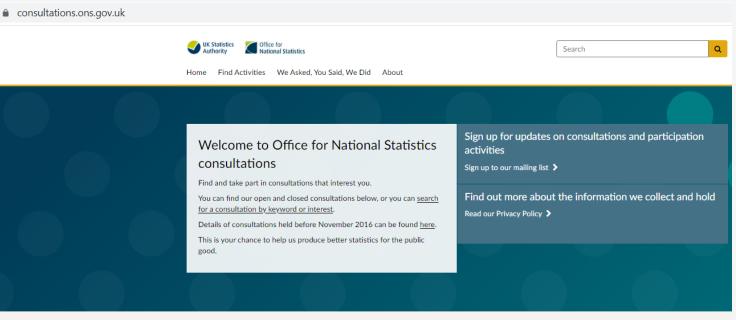
Accessing the consultation

Welsh language questionnaire



English language questionnaire:





Open consultations

Consultation on the future of population and migration statistics...



Ymgynghoriad ar ddyfodol ystadegau ar y boblogaeth a mudo...



Closes 26 October 2023



Closes 26 October 2023

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Thank you

Questions?

What areas of ONS or data would you like to learn more about?



Useful links:

• Build a custom area profile;

Customise your search by a variety of insights

• The ONS website;

Tap into the main source and wide variety of our data

<u>Cost of living lates insights</u>

Discover the latest data and trends about the cost of living

Population statistics consultation

Give your views on our plan to transform population and migration statistics

• Nomis website;

Official statistics including historical migration

