

**census**  
2021

# Update on Census Outputs

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@Census2021 | @Cyfrifiad2021



# Outline

- Recent influences – COVID19 and Scottish Census move
- NS accreditation
- Harmonisation
- Outputs Rehearsal
- Output content design
- ONS dissemination alpha
- Product update
- Integrated outputs
- UK data dissemination
- Geography and Statistical Disclosure Control
- Digitisation project
- Stakeholder engagement plans
- Key dates
- Contact details

# Recent influences

- COVID19
  - Working at home, reduced hours, 'virtual' new starters
  - Assessing impact on data collected if in a lockdown/partial lockdown situation in March 2021
  - Potential new output requirements eg key worker alt pop base?
- Scottish Census move
  - NRS outputs team still working with us
  - Assessing impact on UK outputs eg origin-destination data
  - UK data stakeholder group being set up



# NS accreditation

- Ensuring we adhere to the Code of Practice for statistics to retain our 'National Statistics' badge
- Response to actionable findings from Phase 1 of National Stats accreditation published in June
- UKSA letter
- Phase 2 to start in 2021 – gathering evidence now

# Harmonisation update

- Still working with NISRA and NRS to harmonise outputs as much as possible
- Planning comprehensive documentation on UK comparability to be published earlier than 2011 Census
- Planning comprehensive documentation on comparability with 2011 Census, GSS outputs and international standards

# Outputs rehearsal

- 2 week sprint using 2019 Rehearsal and synthetic data
- Successfully used new ONS data access platform and PySpark programs to create first release tables
- Tested interfaces with Processing and Digital Publishing
- More testing to be done

# Output content design

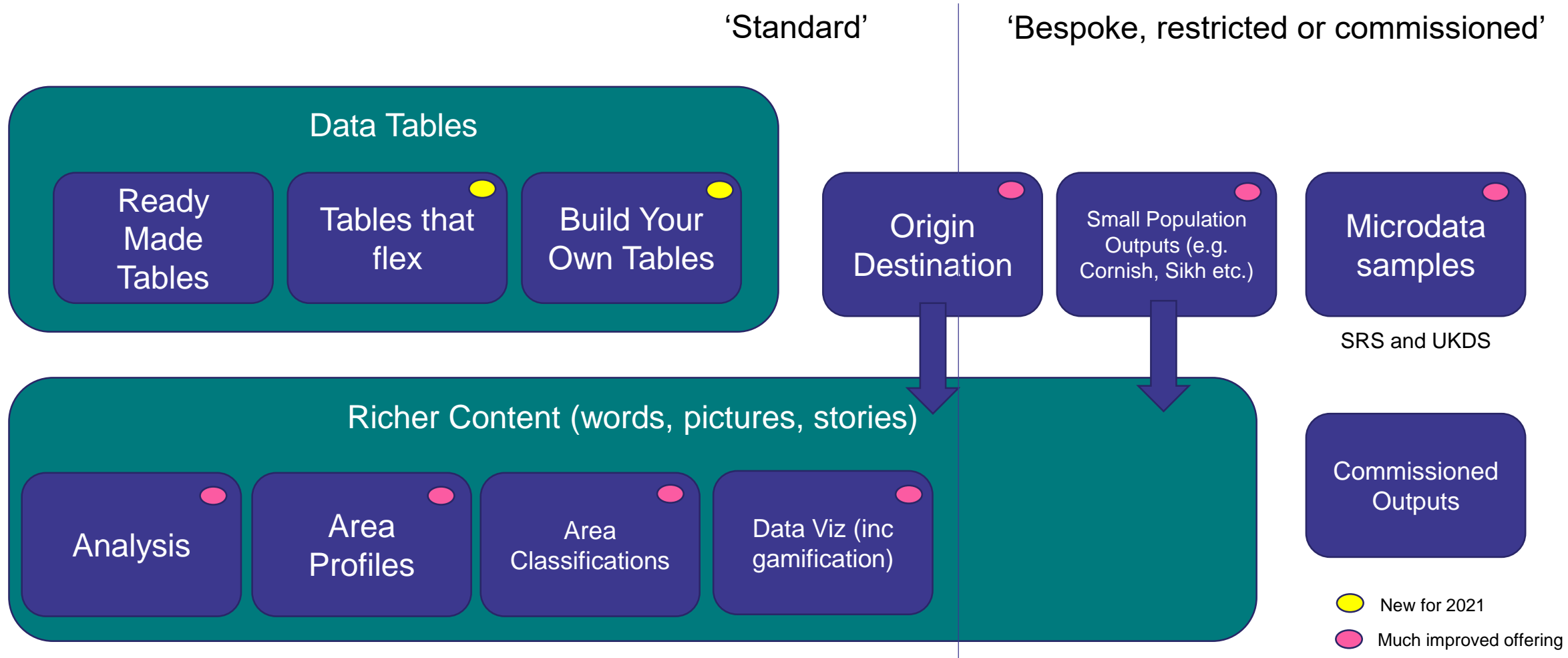
- Progress on derived variable specifications
- Nearly all classifications at most detailed level signed off
- Work kicked off on output category design which will feed into approach for small population outputs

# ONS dissemination alpha project

- Working through how census data will be made available to users – the technical solution
- Prototypes and proof of concepts
- User research and testing; user survey
- Exploring data visualisation and robo (semi-automated) journalism



# Products



# census 2021

## Find and explore Census data

Explore our Census data by browsing ready-made tables or by creating your own custom table.

PROTOTYPE ONLY

### [Find ready-made tables](#)

Search and filter our selection of commonly requested tables.

### [Create a custom table](#)

Use our flexible table builder to do your own multi-variate analysis.

## Ready-made tables

A collection of the most popular data releases from the latest Census.

[Ethnic group by sex by age](#)

Population: Usual Residents: England and Wales

[Sex by age](#)

Population: Usual Residents: England and Wales

[Highest level of qualification by age](#)

Population: Usual Residents: England and Wales

[Provision of unpaid care by age](#)

Population: Usual Residents: England and Wales

[Religion by sex by age](#)

Population: Usual Residents: England and Wales

PROTOTYPE ONLY

1  
Dataset

2  
Geographic Area

3  
Geographic Level

4  
Variables

5  
Data

## Choose your variables

🔍 Search available variables

- Age of individual >
- Alternative household composition >
- Approximated social grade ⓘ
- Arrival to UK >
- Central heating >
- Country of birth >
- Country of birth of household reference person ⓘ
- Distance travelled to work >

Save and continue

## Your table

Cell count: 208,518

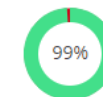
Dataset: People with Households: England and Wales

Geographic area: England, Wales

Geographic level: Lower Layer Super Output Area

Variables: Age (2 categories), Country of birth (3 categories)

### Data confidentiality



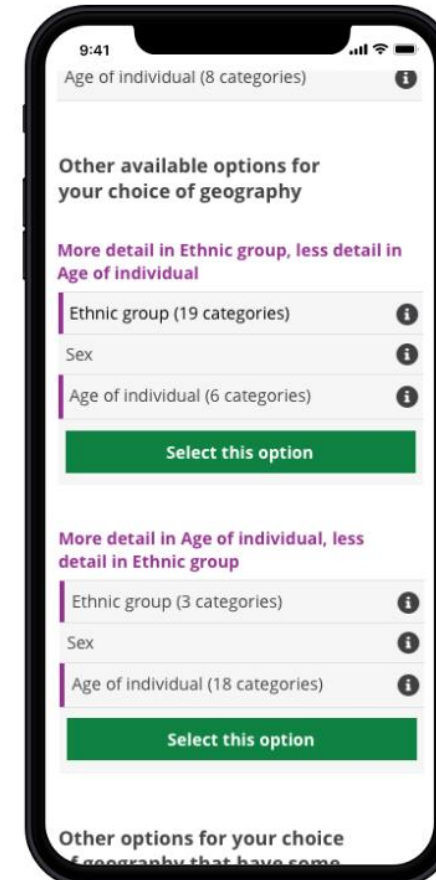
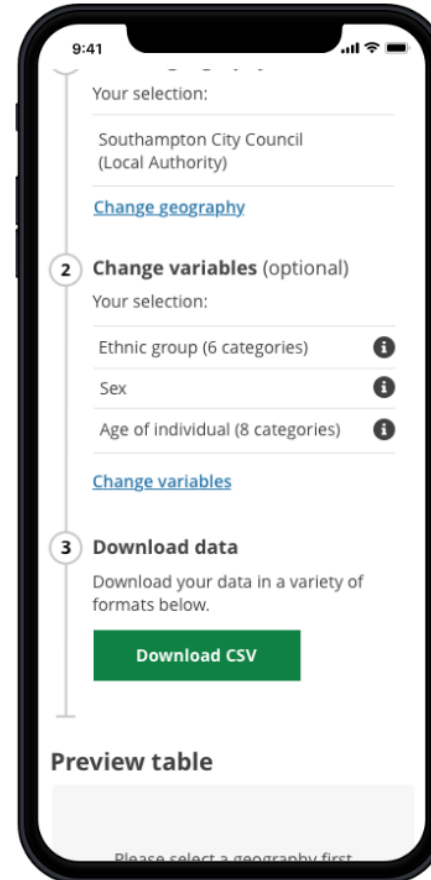
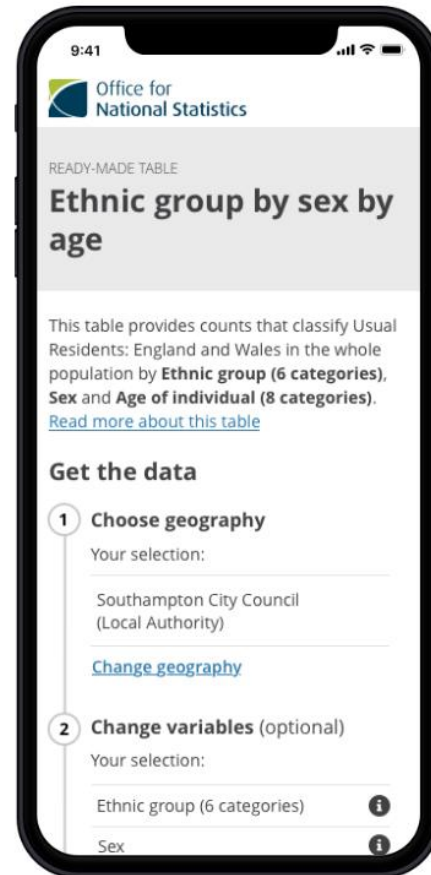
99%

34,726 out of 34,753  
areas pass confidentiality  
checks.

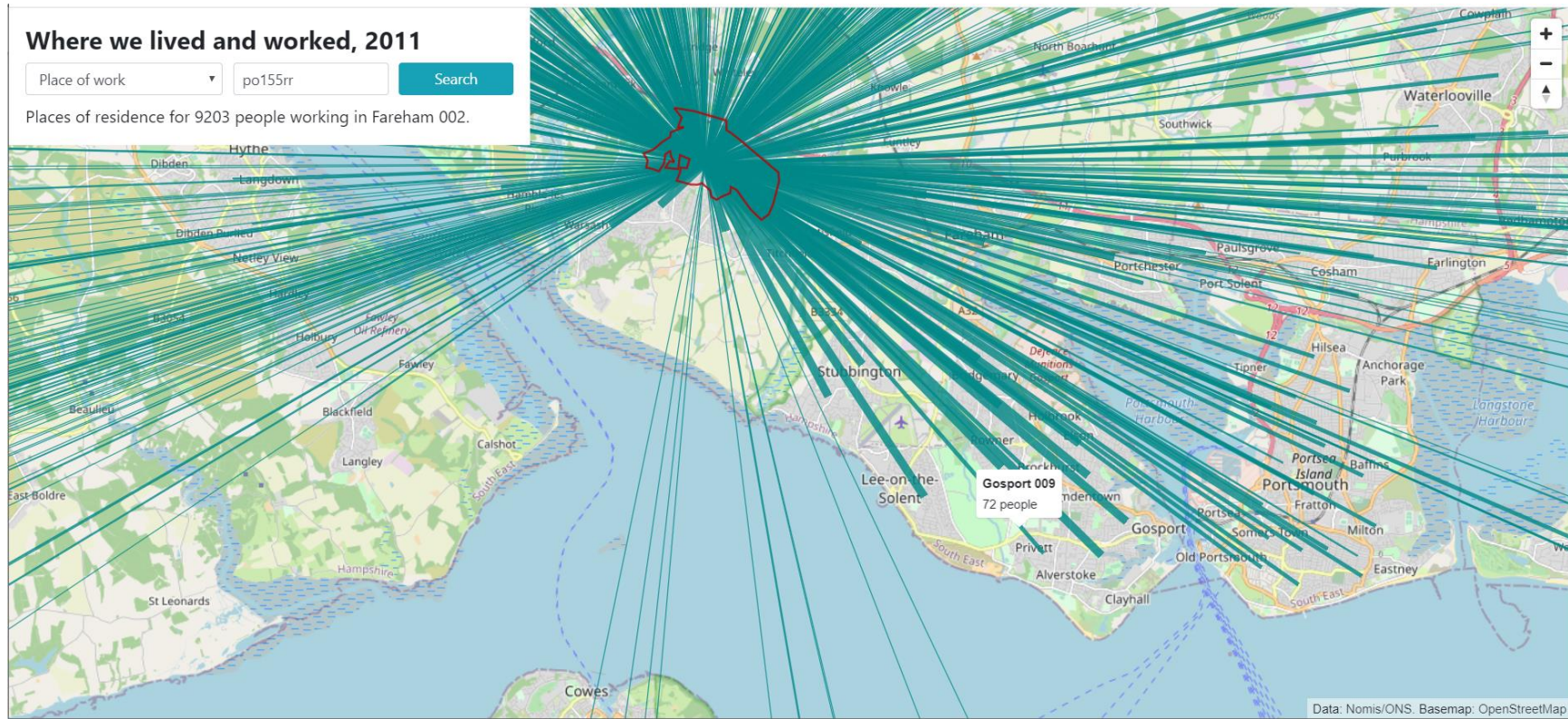
PROTOTYPE ONLY

# Flexing tables

PROTOTYPE ONLY



# Data visualisation - flow data



PROTOTYPE ONLY

# Robo (semi-automated) journalism

## ONS Robo-Journalism Demos

Profiles Indicators Key Data Themes 2001 Census 2011 Census Change

Barrow-in-Furness

## Barrow-in-Furness's population is shrinking

Barrow-in-Furness is one of the few places in England and Wales where the population is getting smaller according to Census data.

Barrow-in-Furness had a population of 69,087 on Census day 2011, a decrease of 4% compared to 2001, which was significantly lower than the average change across all local authorities. Its population density was 8.9 people per hectare, close to average.



Embed SVG PNG CSV

Density, people per hectare

The population of Barrow-in-Furness is somewhat older than other local authorities, with a median age of 42, an increase of 3 years compared to 2001. Of the total population, 18% is aged 15 or under, 63% is 16 to 64, and 19% is aged 65 or over.

Barrow-in-Furness

## Barrow-in-Furness

Rank relative to other LAs:

1 - 69 70 - 138 139 - 208 209 - 277 278 - 348

Below are a selection of significant facts about Barrow-in-Furness relative to other local authorities.

### Census 2011

- Population **69,087 people** 322 (bottom 10%)
- White ethnicity **98.34%** 28 (top 10%)
- Black ethnicity **0.1%** 339 (bottom 10%)
- Mixed ethnicity **0.52%** 344 (bottom 10%)
- Shared ownership homes **0.12%** 348 (bottom 10%)

### Change +/-

- Population **-4.02%** 348 (bottom 10%)
- Density **-3.68%** 344 (bottom 10%)
- Black ethnicity **+0.04%** 322 (bottom 10%)
- Mixed ethnicity **+0.23%** 338 (bottom 10%)


DRAFT CONTENT – PROTOTYPE ONLY

# Gamification? Data explorers?

How does your area compare? Total score 1/2


Find your area

### Birmingham




POPULATION	1,141,400
DENSITY	3,300 /sq.km
AVERAGE AGE	42
PEOPLE IN WORK	65%
HOME OWNERSHIP	51%
PEOPLE OF FAITH	62%

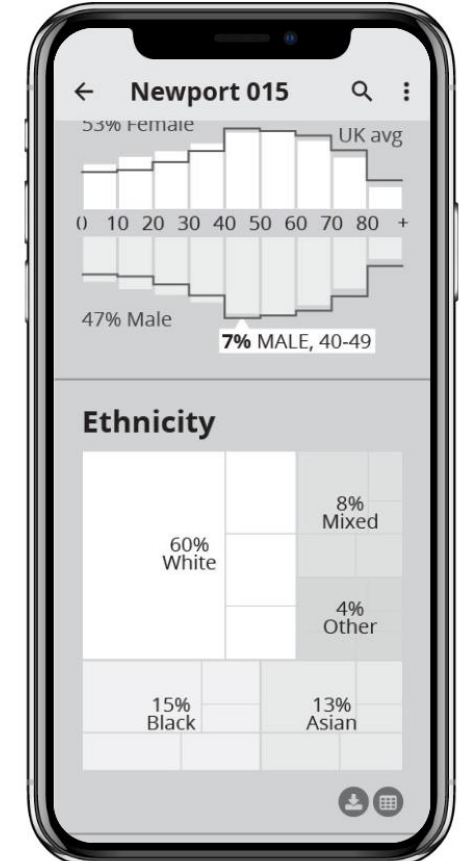
### Newcastle upon Tyne



POPULATION	<input type="button" value="↑"/> <input type="button" value="↓"/> 300,200 <input type="button" value="✓"/>
DENSITY	<input type="button" value="↑"/> <input type="button" value="↓"/> 2,700 /sq.km <input type="button" value="✗"/>
AVERAGE AGE	<input type="button" value="↑"/> <input type="button" value="↓"/>
PEOPLE IN WORK	<input type="button" value="↑"/> <input type="button" value="↓"/>
HOME OWNERSHIP	<input type="button" value="↑"/> <input type="button" value="↓"/>
PEOPLE OF FAITH	<input type="button" value="↑"/> <input type="button" value="↓"/>



DRAFT CONTENT – PROTOTYPE







# Integrated outputs

- [Blog and research on number of rooms published](#)
- Update on income

# UK data dissemination

- Discovery project completed by UKDS
- Reviewing next steps considering move of Scotland Census date
- UK data stakeholder working group being set up



# Digitisation project

- 1921, 1931, 1951 and 1961 Census county and topic reports to be scanned and digitised
- 1961 small area statistics already digitised – release planned
- Data to be available for all
- Opportunities for analysis and data visualisation

# Geography and SDC update

- Geography consultation planned for Autumn – key question on approach to ward and parish outputs
- Statistical disclosure control approach on track for sign off by National Statistician in October

# Stakeholder engagement plans

- Updated website pages  
<https://www.ons.gov.uk/census/censustransformationprogramme/census2021outputs>
- Blogs and email updates - sign up on  
<https://public.govdelivery.com/accounts/UKONS/subscribers/new>
- Stakeholder engagement activities eg webinars, conferences, mini-surveys and ongoing user research
- Existing working groups on microdata and origin-destination data

# Key dates (planned)

Date	Activity
Summer/Autumn 2020	Update on progress (web pages, blogs) and stakeholder engagement
21 March 2021	Census day in England and Wales
Spring/Summer 2021	Formal consultation on 2021 Census outputs
Autumn 2021	Publication of Outputs Prospectus (incl. indicative release timetable)
March 2022	Planned date for First Release (age by sex at LA level)
March 2022 to March 2023	Release window of main 2021 Census outputs (England & Wales)
March 2023	Completion of main 2021 Census outputs (England & Wales)
Late 2023/ early 2024	Release of UK Census outputs

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# Contact details

[Census.outputs@ons.gov.uk](mailto:Census.outputs@ons.gov.uk)

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# Feedback and questions

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**2021 Census Outputs and Dissemination**

**@StatsLiz**