

Scotland's Census 2011: How National Records of Scotland are making the most of the data

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Census Quality and Data Exploitation
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Overview

- ▶ What's available and how you can access the data
- ▶ Facilitating access
- ▶ Opportunities for collaborative working
- ▶ Working with schools
- ▶ 2021 Consultation

What's available and how you can access the data

2011 Census Results

- ▶ Phased releases 1-3 accompanied with statistical bulletins or
- ▶ key points
- ▶ Origin-destination (flow) statistics
- ▶ Census microdata files (Samples of Anonymised Records)
- ▶ Alternative population statistics: workplace and 'daytime' population
- ▶ Commissioned tables service
- ▶ Analytical reports

Media coverage



BBC online

“Home alone: how single-person households now prevail across Scotland”

Herald online

“Challenge to the Kirk as number of Scots without a religion at new high”

The Herald

“Edinburgh in baby boom as under-fives up 18%”
Edinburgh Evening News

“What we learned from the Census 2011: More women, more OAPs, more people.”

The Daily Record

“Scotland becomes ‘a more colourful country’”

BBC online

“Almost two thirds of Scotland's residents are 'Scottish only' ” **STV**

“Census shows decline in Gaelic speakers 'slowed' ”

BBC

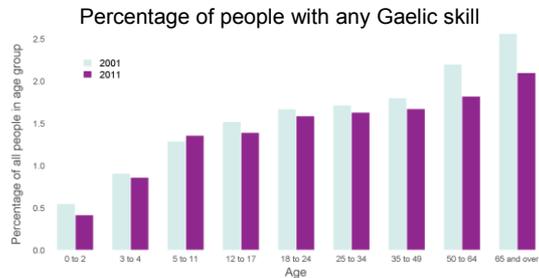
“Number of foreign nationals in Aberdeen triples”
Evening Express

Census Data Explorer

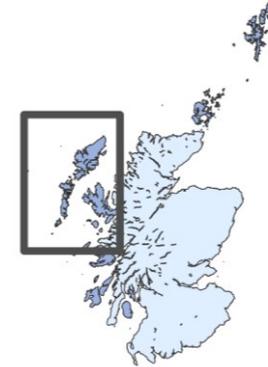
- ▶ www.scotlandscensus.gov.uk
- ▶ [Table Index](#)
- ▶ [How to use the Census Data Explorer](#)
- ▶ [Events and courses](#)

Analytical reports

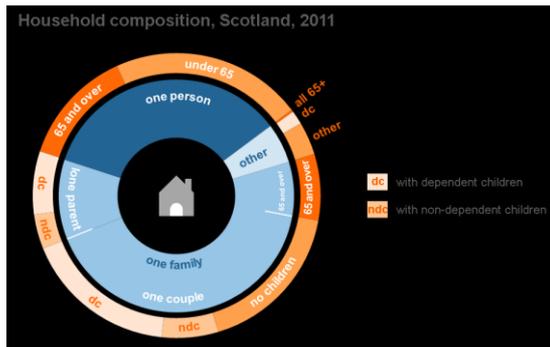
▶ Gaelic Language Report



▶ Inhabited Islands Report



▶ Household composition for population groups



Other examples of use

- ▶ [Understanding Scottish Places](#)
- ▶ [Datashine Scotland](#)
- ▶ [Know Fife Dataset](#)

Facilitating access

Accessing flow data

- ▶ Public files via [NOMIS](#) or UK Data Service
- ▶ Safeguarded files via UK Data Service
- ▶ Files transferred to contractors working on behalf of public bodies
- ▶ Data sharing agreement with National Records of Scotland

Transport Scotland Case Study

- ▶ September 2014 – identified need for flow data (Transport Model for Scotland)
- ▶ Safeguarded files were not available; required geographies not used
- ▶ Created bespoke extract of flows for ‘transport regions’ for Scottish usual residents
- ▶ Prepared a data sharing agreement

Opportunities for collaborative working

What is it?

- ▶ An alternative to requesting commissioned tables
- ▶ Scottish Government analysts come into Ladywell House to analyse the data, produce tables, and write commentary
- ▶ Census colleagues QA / SDC check the tables, and provide advice on the data processing / variables
- ▶ Currently reviewing pilot project

Equalities statistician

To improve the equality evidence base using census data.

- ▶ New data on age, gender, ethnicity, religion, disability, civil partnership.
- ▶ Along with national identity, country of birth, length of time in UK, language skills.
- ▶ Reliable estimates for small groups.

How did it work

- ▶ Go to NRS premises at Ladywell House and analyse the data myself (with LOTS of help from NRS)
- ▶ Set out list of tables to produce, based on available variables. Added and adjusted along the way



What were the Advantages?

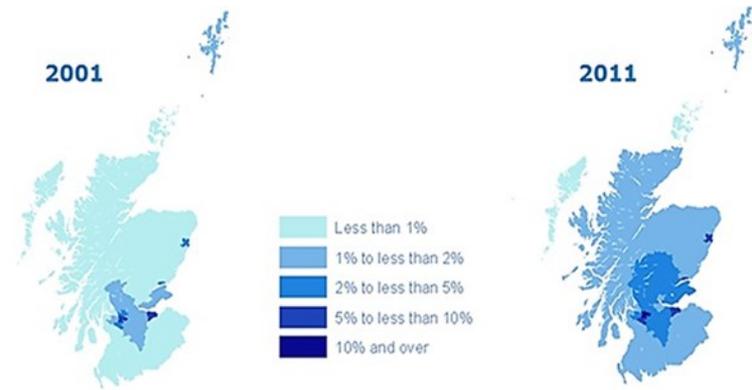
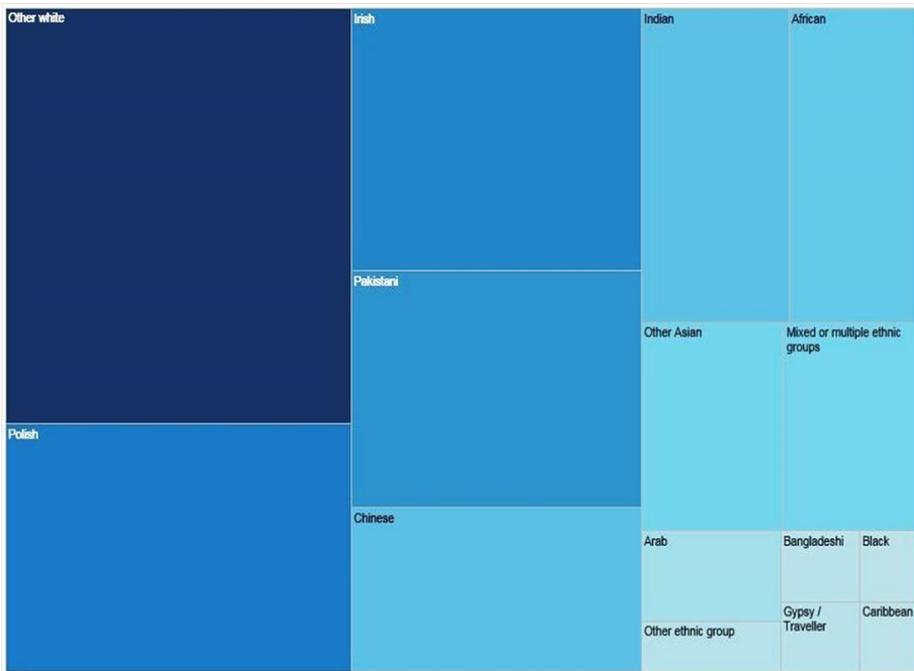
- ▶ A better understanding of the data
- ▶ More freedom to experiment
- ▶ Better use of our collective time
- ▶ Improved timeliness
- ▶ More tables
- ▶ Higher quality end product



What were the outputs?

- ▶ Three large official statistics reports
- ▶ Over 100 extra tables and charts
- ▶ Clear and insightful commentary

	Ethnicity	Gypsy/Travellers	Religion	Disability	BSL Users
Demographics	✓	✓	✓	✓	✓
Language	✓	✓	✓	✓	✓
Households	✓	✓	✓	✓	✓
Health	✓	✓	✓	✓	✓
Labour Market	✓	✓	✓	✓	✓
Education	✓	✓	✓	✓	✓
Housing	✓	✓	✓	✓	✓
Transport	✓	✓	✓	✓	✓



Population Pyramid: 'Chinese', Scotland 2011

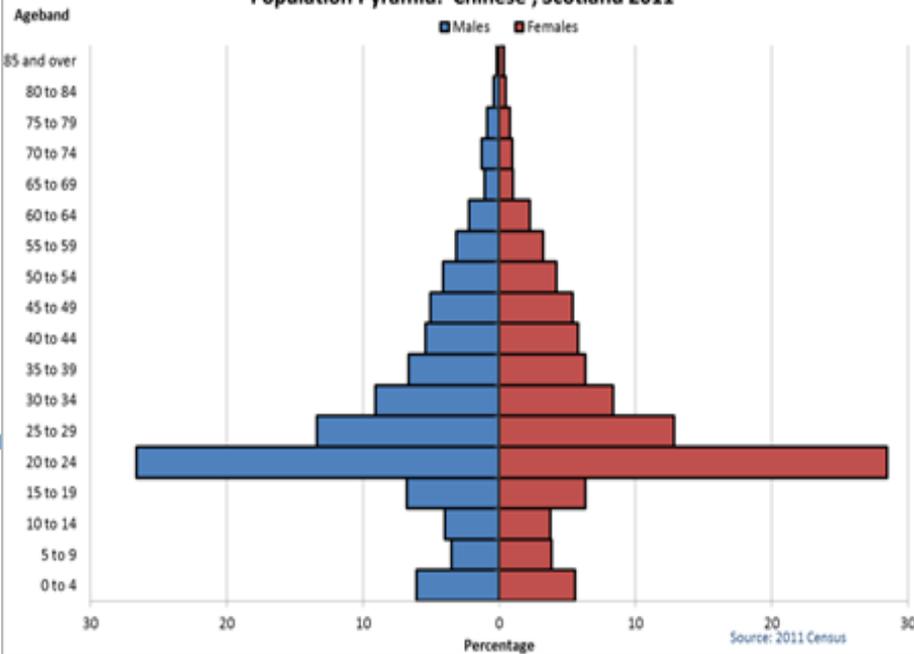
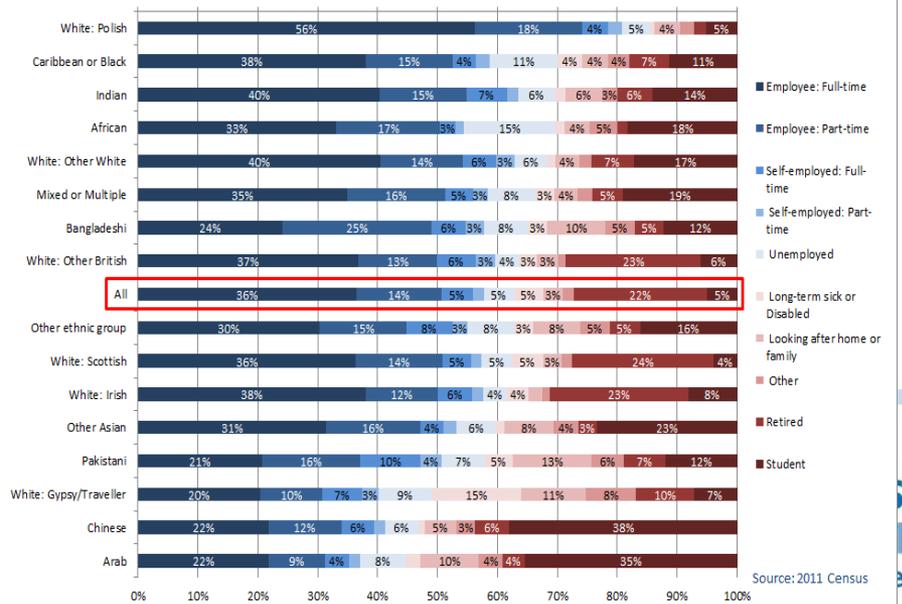


Chart 2: Ethnic Group by Economic Activity
All People (16 years+), Scotland 2011



Source: 2011 Census

What were the main findings?

- ▶ people of **Polish** ethnicity in Scotland were the most economically active;
- ▶ those of **Indian** ethnicity were the most likely to be highly qualified and working in the top professions;
- ▶ **Pakistani** people were the most likely to be self-employed;
- ▶ **Chinese** and **Arab** people were the most likely to be students.

However the analysis also revealed that:

- ▶ people of **Polish** ethnicity in Scotland were likely to be in lower skilled employment;
- ▶ people of **African** ethnicity were the most likely to be unemployed;
- ▶ **Gypsy/Travellers** were much more likely to have never worked or work in elementary occupations and be in the lowest social grade

What was the impact?

iPod 22:43 Home

BBC Scotland News retweeted

Douglas Fraser @BBCDouglasF 2h
Which ethnic groups are also newcomers? Big Immigration Debate, BBC2 Scotland, 10.30

Ethnic Group	Scotland (%)	UK (%)
White: Scottish	85%	85%
White: Other British	10%	10%
White: English	3%	3%
Mixed or multiple	2%	2%
White: Irish	1%	1%
Polish	1%	1%
Caribbean Black	1%	1%
Pakistani	1%	1%
Indian	1%	1%
Asian	1%	1%
Other	1%	1%
Other ethnic group	1%	1%
African	1%	1%
Other Asian	1%	1%
White: Other White	1%	1%

BBC Scotland News retweeted

Douglas Fraser @BBCDouglasF 2h
Why younger Asian-Scots can help beat the age bulge. The Big Immigration Debate, BBC2 Scotland, 10.30

Population Pyramid: All People, Sc (Scotland) vs United Kingdom (UK)

Age Group: 0-4, 5-9, 10-14, 15-19, 20-24, 25-29, 30-34, 35-39, 40-44, 45-49, 50-54, 55-59, 60-64, 65-69, 70-74, 75-79, 80-84, 85+

Legend: Scotland (Left), UK (Right)

Navigation: Timelines, Notifications (2), Messages (1), Me

Polish are most 'economically active' in Scotland

Poles 'most economically active ethnic group' in Scotland

26 March 2015 | [Scotland business](#)



Alex Neil: Ethnic communities a great asset to Scotland. Picture: John Devlin

TVP **VOD**
TVP na życzenie

TVP.INFO KULTURA SPORT

strona główna » polonia » propozycje tvp polonia » Halo Polonia

Halo Polonia

 + dodaj do ulubionych

start aktualności o programie video kontakty



Mail - How much did this cost!!!

Future

- ▶ Develop procedure and criteria for prioritisation
- ▶ Consider implications for other users

Health warning

- ▶ Our resources are limited!

Working with schools

In collaboration with:



THE UNIVERSITY *of* EDINBURGH

Initial interest

- Student maths and social subjects teachers
- Scottish Mathematical Council conference
- Geography skills day at Loch Lomond
- Professional Development with social subjects teachers in Aberdeen and Aberdeenshire

Format of training

- What does Census tell us about Scotland
- Retrieve information about your area
- Hands-on practical
- Follow up in blog – Talking about statistics

www.celiamac58.blogspot.co.uk

Educational Links

- Curriculum for Excellence
- Literacy, Numeracy, Health and Well-Being

Curriculum for Excellence

- Capacities

Responsible Citizens

Effective Contributors

Successful Learners

Confident Individuals

Curriculum for Excellence

- Broad General Education (BGE) 3-15 yrs
 - Experiences & Outcomes
 - Mathematics
 - Numeracy
- Senior Phase National Qualifications
 - National 4/5
 - Higher (H)
 - Advanced Higher (AH)

Future developments

- Disseminate worksheet
- Links between NRS and Education Scotland
- Researching teachers experiences; future needs and extending to other open data
- Links with Royal Statistical Society educational work

2021 Consultation

Scotland's Census 2021

- ▶ NRS is planning for a census in 2021
- ▶ Need to understand user requirements
- ▶ First stage is a Topic consultation, due October - what topics do you need in the next census?
- ▶ Any upcoming events NRS can encourage views?
- ▶ For updates and newsletter sign up, visit:
www.scotlandscensus.gov.uk

Further information

- ▶ All data available at: <http://www.scotlandscensus.gov.uk>
Sign up there for our e-newsletter
- ▶ Enquiries: statisticscustomerservices@nrscotland.gov.uk

 @NatRecordsScot