

An Introduction to the UK Data Service

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Data and Access and Use Assistant 8th April 2021

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Overview

- Who are we?
- What is data?
- What types of data do we hold?
- Online resources
- Further help
- Questions?



What is the UK Data Service?

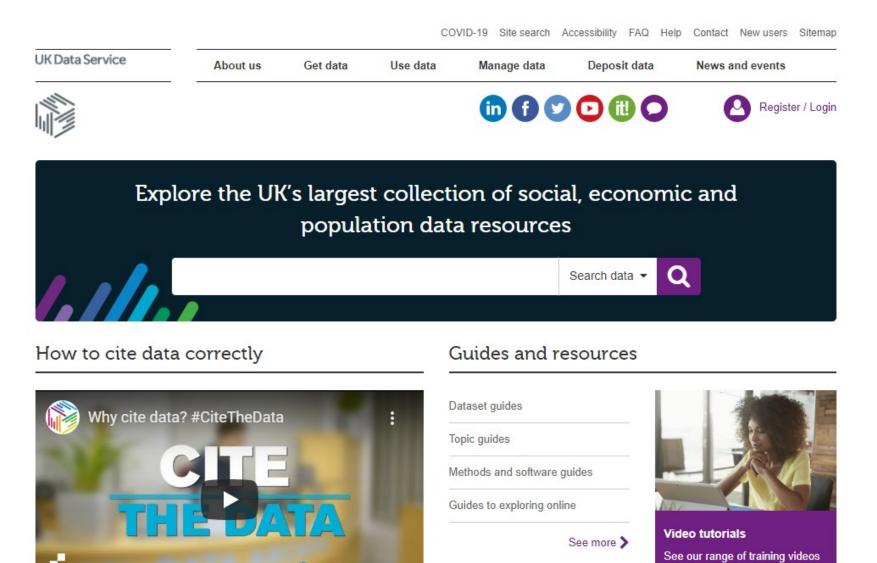
Comprehensive resource funded by the ESRC

Access to secondary social science data

The UK Data Archive is the lead organisation

Support, training and guidance

UK Data Service Website



Who is it for?

- Academic researchers and students
- Government analysts
- Charities and foundations
- Business consultants and data analysts
- Independent research centres and think tanks

What is data?

- Facts and statistics collected together for reference or analysis
- Distinct pieces of information
- Surveys, administrative records, business records, censuses



How do you get data?

Primary data collection?

Advantages of secondary data collection



Sources of data

National statistical authorities





- UK government departments
- Intergovernmental organisations
- Research institutes
- Individual researchers





Types of data

Survey Microdata

Major UK surveys

Cross-national

Longitudinal

Census

Aggregate data for 1971-

2011

Microdata for 1991-2011

International Macrodata

Multi-nation aggregate databanks and survey data

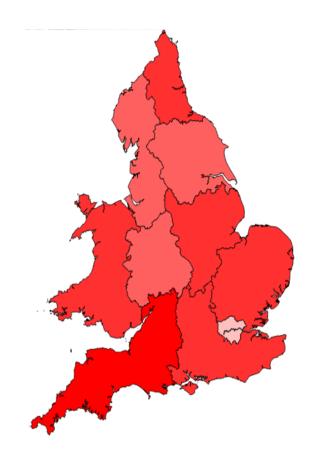
Qualitative/Mixed methods

Range of multimedia
qualitative data sources
Mix of qualitative and
quantitative data

Micro data vs Macro data

- Micro data
 - Data at the individual level
 - Collected through surveys

- Macro data aggregate data
 - Region or country level
 - Aggregated counts



Survey Microdata

Survey Microdata

- Anonymised individual or household level data
- Large sample sizes
- Nationally-representative
- SPSS or Stata
- Flexible

Survey Microdata: example

<u>F</u> ile	<u>E</u> dit	<u>V</u> iew <u>D</u> ai	ta <u>T</u> ra	ansform	<u>A</u> naly	ze <u>G</u> raphs	Utilities Add-g	ins <u>W</u> indow	<u>H</u> elp	
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		rowla	ibel	sex		age	livharm1	ethgrp2	educat3	work
	1	6130	02140		2	36	1	1	1	1
	2	6138	34060		1	44	4	1	3	1
	3	6368	34260		1	43	1	1	2	1
	4	6379	90220		2	27	3	4	3	1
	5	6384	43180		1	38	1	1	4	1
	6	7110	05020		2	18	3	3	2	1
	7	7110	05140		1	65	3	3	4	1
	8	7110	06020		1	58	5	1	1	2
	9	7110	06060		2	38	3	1	1	2
	10	7110	08100		1	29	3	4	4	2
	11	7111	10140		1	38	2	1	4	1
	12	7111	10260		1	67	3	1	1	1
	13	7111	14020		1	21	3	1	3	1
	14	7111	15060		2	37	4	4	2	2
	15	7111	19020		2	23	3	2	4	1
	16	7111	19060		1	57	1	5	5	2
	17	7111	19140		2	34	3	4	3	2
	18	7111	19180		1	55	3	1	4	1
	19	7111	19220		2	27	3	1	4	2

Survey Microdata: Working

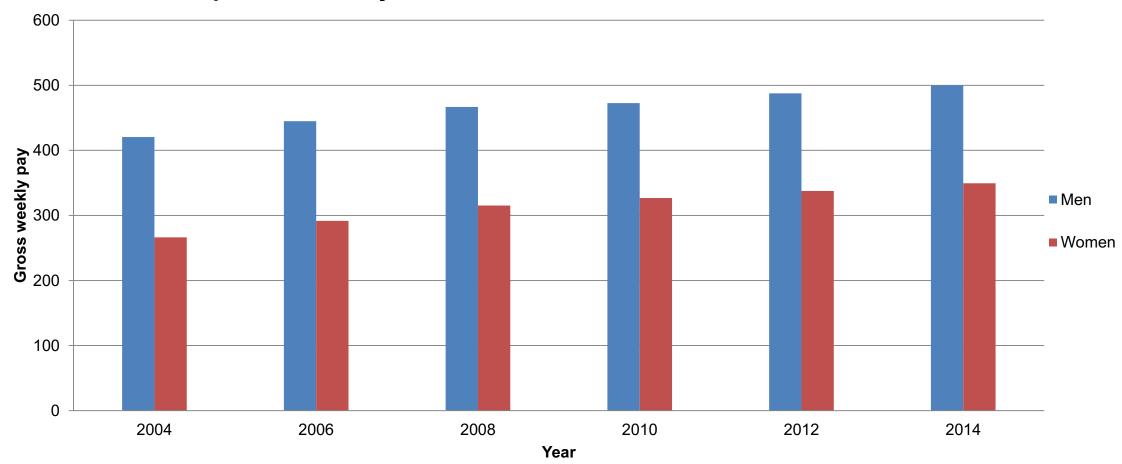
(D) Age 16-65+ in ten year age bands * (D) BMI grouped with Obese categories I, II, III Crosstabulation

Count

		(D) BMI grouped with Obese categories I, II, III						
		Underweight: less than 18.5	Normal: 18.5 to less than 25	Overweight: 25 to less than 30	Obese I: 30 to less than 35	Obese II: 35 to less than 40	Obese III: 40 or more	Total
(D) Age 16-65+ in ten	16-24	25	235	84	29	14	9	396
year age bands	25-34	9	306	180	83	37	11	626
	35-44	5	302	324	134	43	20	828
	45-54	5	301	341	190	68	33	938
	55-64	4	210	322	184	58	25	803
	65+	9	328	591	274	71	17	1290
Total		57	1682	1842	894	291	115	4881

Survey Microdata: Outputs

Gross Weekly Pay (£) in Main Job by Sex, 2004-2014 Annual Population Survey



Cross- sectional surveys

Many repeated annually

Different people interviewed

Snapshot at a specific time point

Covers- health, work, crime



Key data: Cross-sectional surveys

Labour Force Survey (1975-)

Annual Population Survey (2004-)

Family Expenditure Survey (1961-2001)

Crime Survey for England and Wales (1982-)

• British Social Attitudes Survey (1983 -)

Labour Force Survey



Annually then quarterly

International definitions of employment, unemployment & economic inactivity

Informs social, economic & employment policies

• Topics include: occupation, training, working hours

Longitudinal data – Panel & Cohort data

Similar to cross-sectional surveys

- One key difference!
 - Use the same individuals
 - Change over time
 - Temporal order of events studied



Panel Studies

Measurements are called waves

Random sample of individuals

Questionnaires core content remains the same

Additional questions can be asked

Understanding Society

40,000 households



Data collected from all household members

• Employment; family networks; religion, ethnicity, health

Consents to administrative data linkage

Cohort studies

Individuals with a common event

Measurements are called sweeps

Examine generational change

Questionnaire content is age-specific

Birth Cohort studies- sweeps

1958 National Child Development Study	1970 British Cohort Study	Millennium Cohort Study
1958 - birth	1970 - birth	2000-02 – birth
1965 - age 7	1975 - age 5	2001-03 – 9 months
1969 - age 11	1980 - age 10	2006 – age 5
1974 - age 16	1986 - age 16	2008 - age 7
1981 - age 23	1996 - age 26	2012 - age 11
1991 - age 33	1999-2000 – age 29-30	2015 - age 14
1999-2000 – age 41-42	2004-05 - age 34-35	2018- age 17
2004-05 – age 46-47	2008-09 - age 38-39	
2008-09 – age 50	2012 - age 42	
2013-14 – age 55	2016 – age 46	
2018 – age 60	FUTURE: 2020 – age 50	

Cross- national surveys

Individual or household level data



Allow comparisons across different countries

Topics: education and income

Example- European Quality of Life Survey

International Macrodata

International Macrodata

Time series data aggregated to country/region

Regularly updated

International governmental organisations

Certain access conditions



International Macrodata themes

Databanks cover:

- Economic performance and development
- Trade, industry and markets
- Employment
- Demography, migration and health
- Governance



International Macrodata: Tools

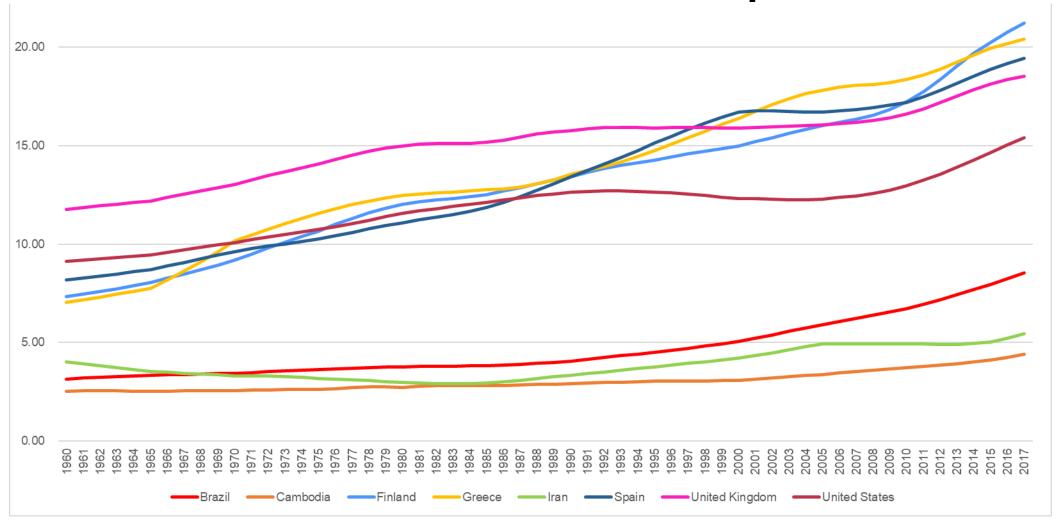
UKDS.Stat or IMF e-library

View the data by provider

Extract the information you require



International Macrodata Outputs



Population ages 65 & over (% of total population) 1960 – 2017 World Bank (October 2019): World Development Indicators

Census Data

UK Census Data

1971-2011 census data

Used as baseline for other statistics

 Detailed combinations of characteristics



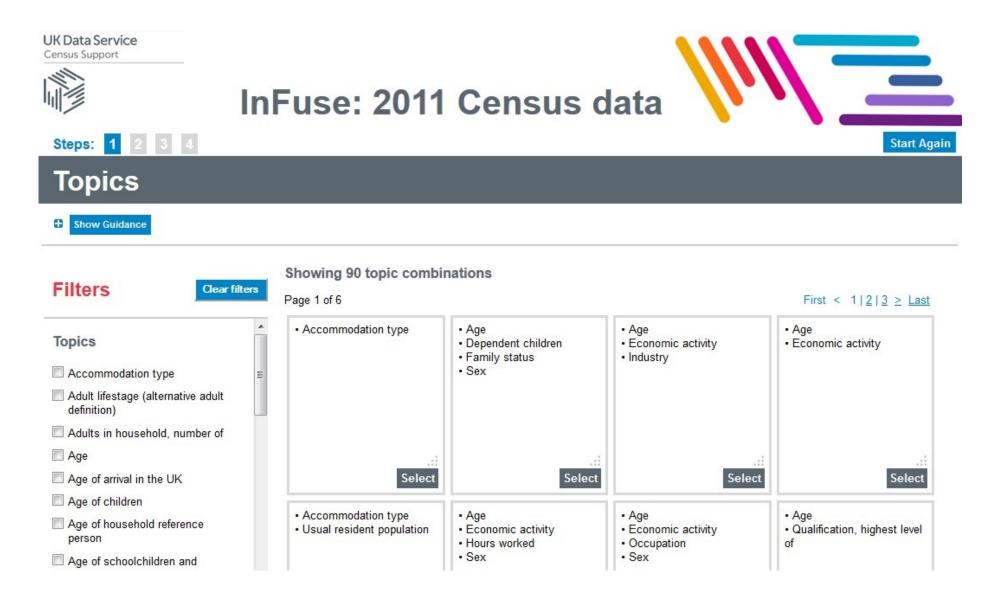
Small geographies

Census Aggregate data

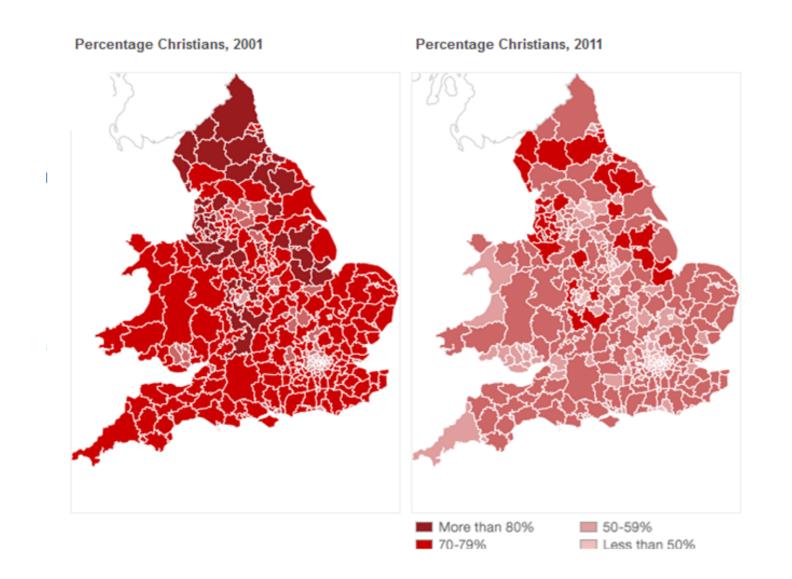
- Counts of people with particular combinations of characteristics
- Large to very small areas



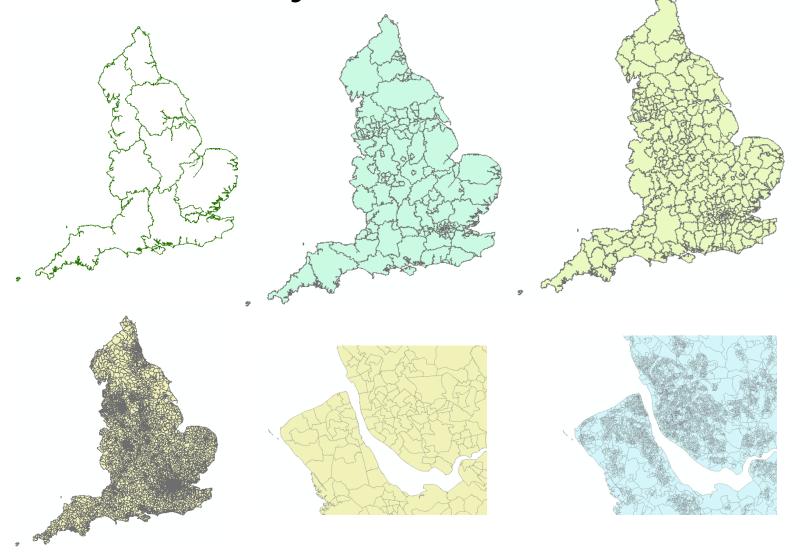
Census tools - InFuse



Census data Output: Religion



Census Boundary data



Census tools- Boundary data

ACCESS BOUNDARY DATA

These tools are restricted to staff and students from UK further/higher education institutions



EasyDownload

The most regularly requested census boundaries available as ready-to-use national datasets in popular formats



Boundary Data Selector

This facility lets you select the boundaries you want, for the area you want, in the format you want



Postcode Directory Download

This facility allows you to download complete versions of current and historical postcode directories (sometimes referred to as look-up tables)



Postcode Data Selector

This facility allows you to download the set of postcodes that you want from postcode directories released between 2001 and the present day



A geography matching and conversion tool. Obtain and manipulate complex geographical and postcode data in a straightforward way



Create Choropleth thematic maps from your own uploaded CSV file and boundary data from Census Support



This facility allows you to search for and view metadata records associated with the census geographic datasets



WICID (Web-based Interface to Census Interaction Data)

This facility allows users to select and download migration and journey-to-work flow data collected by the Census of Population.



This facility contains boundary data bundled with census aggregate data for the 2001 and 1991 Cancusas

Census Flow data

Special type of aggregate data

There is an origin and destination



Two main types: commuting and migration

WICID tool

Census Microdata

Anonymised individual-level data

Analysed using SPSS or Stata

Flexible



• 1991, 2001 and 2011 SARs available

Registering with the UK Data Service

Registering with the UK Data Service

UK university- register through institution

Apply for a username



Registering on the website

UK Data Service



About our data

Key data

Data by theme

Data by geography

Open data

How to access

Registration

Download and order

Access Secure Lab

Charges

Terms and conditions of access

Other providers

Explore online

Data access policy

Thesauri



Home > Discover data > How to access > Registration

Registration

Information on the registration and ordering process is available by selecting one of the following options:



SHARE <

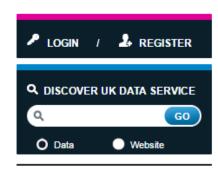
If you are a student or member of staff at a UK institution of higher or further education (UK HE/FE), you can register with us using the username and password issued to you by your institution.

To register with the UK Data Service:

- 1. Click 'Register'
- 2. Click 'Register with the UK Data Service' under New users
- 3. Enter/select your organisation*, then click 'Continue'
- 4. Login using your username and password
- 5. Select 'New user' and then complete the registration form
- Agree to the End User Licence (EUL), which outlines the terms and conditions of use of the Service, and then follow the instructions to complete your registration

Once registration is complete you will be able to download/order data from us.

* Note: If your username was issued to you by the UK Data Archive and begins with 'ukd', you need to enter 'UK Data Archive' as your organisation.



QUICK ACCESS TO

FAQ - Login and registration

Get in touch: registration

Searching for Data

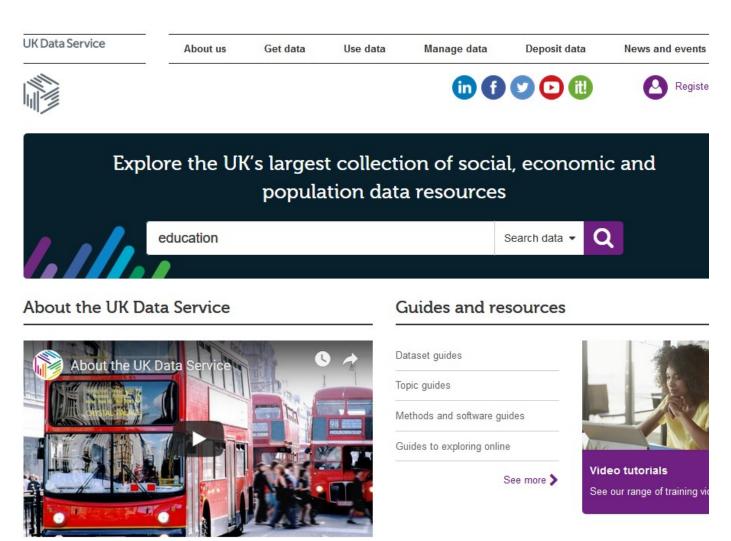
Searching for Data

Something for everyone



- Politics British Election Study
- Economics -Labour Force Survey
- Sociology British Household Panel Survey
- Survey methods UKHLS Innovation Panel

Searching function



Useful resources and further help

Advice for new users

We have webpages for new users about:

- How to register and access data
- How to find data with our search tools
- What kinds of data we hold
- How to contact us

Advice for new users

"Learn about our service and how to use our resources"



The UK Data Service provides access to, and support for, the use of an extensive range of key economic and social data, spanning many disciplines and themes. Find out <u>about us</u>.

Our search and browse application, <u>Discover</u>, provides access to data and related resources, such as case studies, support guides and publications. Discover contains over 6,000 digital data collections for research and teaching purposes.

Using our data

Anyone can register for our service but access to our resources may differ depending on your affiliation.

Academic	Public Sector	Voluntary	Commercial	Personal
		Sector		

Interactive events

- Webinars
 - Introduction to key types of data
 - Specialised webinars for topic area, methods
 - Can be collaborative



Resources for using data

UK Data Service

Advice and training

Guides

Video tutorials

Data in use

Citing data

Secure Lab

Teaching with data

Student resources

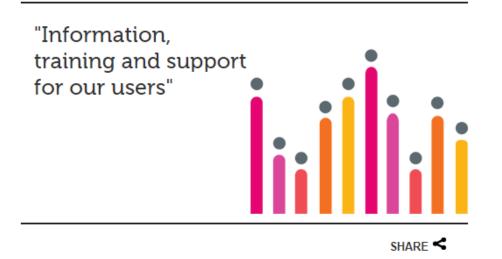
Data Skills Modules

Secondary analysis



Home > Use data

Use data



Behind everything we do is the desire to see data used to its maximum potential. To help you to make best use of our collection we offer resources and support for users.

This section contains information on:

- · advice and support, including information about our helpdesk and training
- · a number of guides, video tutorials and pointers to other useful information
- · examples of how the data have been used by others
- · information and resources designed for teachers and learners

User Support Helpdesk

- Data-related queries
 - Finding suitable data
 - Identifying specific variables
 - Understanding the data
 - Data problems or anomalies

Help

"How can we help?"



Questions

help@ukdataservice.ac.uk

https://ukdataservice.ac.uk/

https://twitter.com/ukdataservice