UK Data Service: Data about Countries

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Webinar: 12 November 2019
Can you hear us?

You should be able to, please check:

Your local speakers/phones

Check also that you have the right audio selection chosen in the menu (top right corner)

There is an option to join by telephone (see menu in top right corner)
What we will cover today

- Introduction
- International macrodata
- Documentation and tips
- Demo
- Questions
  - can be typed in, but we will wait until the end to answer them
What is the UK Data Service?

- a comprehensive resource funded by the ESRC
- a single point of access to a wide range of secondary social science data
- support, training and guidance
What data do we hold?

**Surveys**
Large-scale government funded UK and cross-national surveys

**Census**
Census data 1971 – 2011

**Longitudinal**
Major UK surveys following individuals over time

**Business**
Microdata and administrative data

**International**
Multi-nation aggregate databanks and survey data

**Qualitative**
Range of multimedia qualitative data sources

Repository for researcher-generated datasets
International macrodata: data about countries

- time series data aggregated to country/region
- international governmental organisations
- wide range of socio-economic topics
- availability
Data providers

• International Monetary Fund (IMF)
• Organisation for Economic Co-operation and Development (OECD)
• World Bank
• United Nations
• International Energy Agency (IEA)
International data themes

Databanks cover:

- economic performance and development
- trade, industry and markets
- employment
- demography, migration and health
- governance
- human development
- social expenditure
- education
- science and technology
- land use and the environment
- energy
# International macrodata

<table>
<thead>
<tr>
<th>Metropolitan areas</th>
<th>Total population of the metropolitan area (persons)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2009</td>
</tr>
<tr>
<td>Australia</td>
<td></td>
</tr>
<tr>
<td>Adelaide</td>
<td>21,691,653</td>
</tr>
<tr>
<td>Brisbane</td>
<td>1,237,354</td>
</tr>
<tr>
<td>Gold Coast-Tweed Heads</td>
<td>509,133</td>
</tr>
<tr>
<td>Melbourne</td>
<td>4,031,787</td>
</tr>
<tr>
<td>Perth</td>
<td>1,739,342</td>
</tr>
<tr>
<td>Sydney</td>
<td>4,492,080</td>
</tr>
<tr>
<td>Austria</td>
<td>8,335,063</td>
</tr>
<tr>
<td>Graz</td>
<td>602,465</td>
</tr>
<tr>
<td>Linz</td>
<td>604,006</td>
</tr>
<tr>
<td>Vienna</td>
<td>2,656,523</td>
</tr>
<tr>
<td>Belgium</td>
<td>10,753,080</td>
</tr>
<tr>
<td>Antwerp</td>
<td>1,046,634</td>
</tr>
<tr>
<td>Brussels</td>
<td>2,469,663</td>
</tr>
<tr>
<td>Ghent</td>
<td>572,560</td>
</tr>
<tr>
<td>Liege</td>
<td>723,142</td>
</tr>
<tr>
<td>Canada</td>
<td>33,629,571</td>
</tr>
<tr>
<td>Calgary</td>
<td>1,347,622</td>
</tr>
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</table>

Data extracted on 30 Nov 2016 12:24 UTC (GMT) from UKOS.Stat
Accessing the international macrodata

- World Bank IMF, OECD, UNESCO data are open to all
- Other data restricted to UK FE and HE (UNIDO, IEA)
- Access via Federated access (Shibboleth) authentication
- Data delivered over the web via UKDS.stat
- Download formats include *.xls, *.csv
World Bank World Development Indicators, 1960-2018

<table>
<thead>
<tr>
<th>Details</th>
<th>Documentation</th>
<th>Resources</th>
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<tr>
<td>Title:</td>
<td>World Bank World Development Indicators, 1960-2018</td>
<td></td>
</tr>
<tr>
<td>Alternative title:</td>
<td>WDI</td>
<td></td>
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<tr>
<td>Study number (SN):</td>
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<tr>
<td>Access:</td>
<td>These data are open</td>
<td></td>
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<tr>
<td>Persistent Identifier (DOI):</td>
<td>10.5257/wdi/2019-02</td>
<td></td>
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<td>Principal investigator(s):</td>
<td>World Bank Group</td>
<td></td>
</tr>
</tbody>
</table>

Sponsors and contributors

Citation and copyright

The citation for this study is:


Select citation format:

XML citation formats:

Copyright:

Copyright World Bank Group
Welcome to international aggregate data from the UK Data Service


Find your dataset in the left-hand menu, or view the video Accessing, exploring and visualising data in UKDS.Stat to get started.
# International macrodata

## World Economic Outlook by Country

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Albania</td>
<td>673.204</td>
<td>690.339</td>
<td>700.125</td>
<td>707.202</td>
<td>719.913</td>
<td>735.802</td>
<td>760.426</td>
<td>780.653</td>
</tr>
<tr>
<td>Algeria</td>
<td>5 988.56</td>
<td>6 157.62</td>
<td>6 366.42</td>
<td>6 544.68</td>
<td>6 793.38</td>
<td>7 044.73</td>
<td>7 270.16</td>
<td>7 374.95</td>
</tr>
<tr>
<td>Angola</td>
<td>1 307.7</td>
<td>1 353.11</td>
<td>1 466.69</td>
<td>1 541.46</td>
<td>1 619.8</td>
<td>1 631.04</td>
<td>1 508.96</td>
<td>1 566.58</td>
</tr>
<tr>
<td>Antigua and Barbuda</td>
<td>2.783</td>
<td>2.725</td>
<td>2.821</td>
<td>2.818</td>
<td>2.949</td>
<td>3.068</td>
<td>3.216</td>
<td>3.333</td>
</tr>
<tr>
<td>Argentina</td>
<td>670.524</td>
<td>710.782</td>
<td>703.486</td>
<td>720.407</td>
<td>702.206</td>
<td>721.487</td>
<td>706.478</td>
<td>725.331</td>
</tr>
<tr>
<td>Armenia</td>
<td>2 799.92</td>
<td>2 837.27</td>
<td>3 039.69</td>
<td>3 140</td>
<td>3 253.22</td>
<td>3 359.08</td>
<td>3 367.85</td>
<td>3 619.71</td>
</tr>
<tr>
<td>Australia</td>
<td>1 481.35</td>
<td>1 522.3</td>
<td>1 581.3</td>
<td>1 615.09</td>
<td>1 657.75</td>
<td>1 698.54</td>
<td>1 745.74</td>
<td>1 787.33</td>
</tr>
<tr>
<td>Austria</td>
<td>295.89</td>
<td>304.545</td>
<td>306.617</td>
<td>306.966</td>
<td>308.724</td>
<td>312.252</td>
<td>318.021</td>
<td>326.749</td>
</tr>
</tbody>
</table>

**Legend:**
- *: Not Applicable

Data extracted on 12 Nov 2019 09:36 UTC (GMT) from MyOECD
World Bank Databases

- Collects data on all aspects of human development worldwide
- Annual data, designed for international comparability
- Open access

- Host 4 databases:
  - World Development Indicators
  - International Debt Statistics
  - Africa Development Indicators
  - Subnational Population Database
World Development Indicators

- Covers over 200 countries
- Annual data starting 1960
- Widely cited
- Our most popular database

Around 1,400 indicators for each country
World Development Indicators: example

Which country had the largest proportion of women in parliament during 2018?
Proportion of seats held by women in national parliaments, 2018 (%)

International Debt Statistics

• Financial flows
• Contains the Bank's projections for debt repayments etc for next five years
• Annual data starting 1970s
• Replaces Government Development Finance
Subnational Population Database

• Provinces, states, or regions - below the national level
• 2000 to 2016
• Subnational areas and the shares relative to total national population estimates
• Allows researchers, students and practitioners to investigate population and intra-country migration trends
Belarus subnational data

IMF databanks

- International Financial Statistics
- Government Finance Statistics
- Balance of Payments Statistics
- Direction of Trade
- World Economic Outlook
- Open access
IMF International Financial Statistics

- Standard source for all aspects of international and domestic finance
- Monthly, Quarterly, and Annual data
- Includes over 200 countries
- Reports time series data on exchange rates, international liquidity, money and banking, interest rates, prices, production, national accounts…
International Financial Statistics: example

Total Reserves, US Dollars (Gold at Market Price) (Code: RAFA_MV_USD)

IMF Direction of Trade

- Exports and imports
- Bilateral data between countries
- Monthly, quarterly and annual data are presented
- 1980 onwards

Long and consistent time series
Stable data domains
Good geographic and temporal coverage
Up-to-date data
Inside the database – IMF Direction of Trade

An idea of database size...

- Around 125,000 time series
- Around 3.75 million annual data values
- Around 52 million monthly data values
IMF Balance of Payments Statistics

• Balance of payment components and international investment positions of countries worldwide
• 204 countries and country groups worldwide
• 1970s onwards
• Quarterly and annual data
IMF Government Finance Statistics

• Data on government income
• Expenditure by sector
• All levels of government
• 174 countries worldwide
• Annual time series data, running 1990 onwards.
World Economic Outlook

- World Economic Outlook report

- Data on national accounts, inflation, unemployment rates, balance of payments, fiscal indicators, and commodity prices

- Projections for most indicators run up to 2024
IMF revision of GDP growth forecasts for 2017

Data source: IMF World Economic Outlook, April 2016, updated 19 July
Organisation for Economic Cooperation and Development (OECD) Data

- Open data
- Comparable data
- Limited number of countries
- Wide range of data
OECD data

- Banking Statistics
- Economic Outlook
- Education and Training
- Employment and Labour Market Statistics
- Environment Statistics
- Health Statistics
- Institutional Investors Statistics
- Insurance Statistics
- International Development Statistics
- International Direct Investment Statistics
- International Trade in Services
- International Migration Statistics
- Main Economic Indicators
- Main Science and Technology

Indicators
- Measuring Globalisation
- Monthly Statistics of International Trade
- National Accounts
- Patent Statistics
- Pensions Statistics
- Product Market Regulation
- Productivity Statistics
- Regional Statistics
- Social and Welfare Statistics
- Structural Analysis
- Tax Statistics
- Telecommunications and Internet Statistics

UK Data Service.
DOI: http://dx.doi.org/10.5257/oecd/health/2014-06
Nationalities in the UK in 2017

Stock of foreign population by nationality, Total, United Kingdom

Which country had the highest long term unemployment rate in 2016?
Long-term unemployment rate % (2016)

UNESCO

• Open data
• Education Statistics (1970 onwards)
  • Out of school, progression, attainment, literacy, student migration, teachers, financial resources and much more
• Innovation Statistics (2005 onwards)
  • R&D activity data
• Culture
  • Cultural employment (2009 onwards)
  • Feature film statistics (1995 onwards)
• Communication and information (1995 onwards)
Youth literacy rate, population 15-24 years, both sexes (%)
United Nations Industrial Development Organization (UNIDO)

- Restricted to UK FE/HE

- **UNIDO Industrial Statistics Databases**
  Employment, wages and trade world-wide, broken down by manufacturing sector
  - INDSTAT2
  - INDSTAT4

- **UNIDO Industrial Demand Supply Balance Databases**
  Imports, exports and apparent consumption by manufacturing sector, from 1990 onwards

- Annual data, updated each year
UK Wages and salaries

The US had the highest value of weapons and ammunition exports in 2016. But which country came second?
Weapons and ammunition Exports (current US$ (1000) in 2016

Human Rights Atlas

- open data
- 1981 - 2012
- 240 indicators
- combines data from World Bank, UN, academia, and non-governmental organisation
- ESRC funded project
Political Terror Scale (Amnesty, 2012)
International Energy Agency

- Restricted to UK FE/HE
- CO₂ Emissions from Fuel Combustion
- Energy Prices and Taxes
- Energy Technology Research and Development Database
- World Energy Statistics and Balances
- Specialist databanks:
  - Electricity information
  - Coal Information
  - Natural Gas Information
  - Oil Information
  - Renewables Information
IEA Renewables Supply and Consumption

Solar photovoltaics, Electricity output (GWh)

Germany
Spain
Italy
Korea
France
United Kingdom
Greece

Some tips on using the databanks

**Tip 1:** choose your data from the same databank or family of databanks

- comparability issues between data from different databanks, even for series with well-established standards
- theoretically identical series can have slightly different values in different databanks
**Tip 2:** some of the databanks have better cross country comparability than others.

- OECD databanks are specifically designed for country comparisons
- IMF International Financial Statistics is not.

**Tip 3:** Examine more info and footnotes
What we provide

• Data free at point of use
• Single portal and search across a wide range of international databanks from several intergovernmental organisations
• Consistent and comprehensive documentation
• Training, user support, knowledgeable helpdesk
• Web: ukdataservice.ac.uk
Data Skills modules

• Survey
• Longitudinal
• Aggregate
• [ukdataservice.ac.uk/use-data/data-skills-modules](ukdataservice.ac.uk/use-data/data-skills-modules)
Demo

- https://stats.ukdataservice.ac.uk/
Questions

ukdataservice.ac.uk/help/

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