Data Services at Carleton University

Jane Fry
MacOdrum Library
September 13, 2018
Outline

- What are data services?
- How to access the data?
- How else can we help you?
- More Resources
Data

Need Canadian data? Start here if you're on campus

[Search bar]

Off-campus or need more search options? Visit the <odesi> website for full access.

Need International data? Start here

[Search bar]

Search ICPSR or access ICPSR resources.

Contact
Data Services
email

Related Links
<odesi>

Related Help
Citing Data and Statistics
Statistical Literacy Tutorial
Surveys: Which survey is right for you?

Related Services
Statistical Consulting

Related Policies

https://library.carleton.ca/find/data
What are data services?

- Provide resources
- Help everyone
- One restriction for data use
What do we offer?

- **Main service**
  - Access to data
    - *different data sources*
    - *different types of data*
Canadian data sources

- Statistics Canada
  - Data Liberation Initiative
  - Includes
    - All Statistics Canada’s public use data files, databases and geographic files

- Canadian Election Surveys
  - 1965 – 2015
Public opinion data

- Gallup Canada (1945 - 2000)
- Voice of the People (2002 – 2011)
- Centre for Research and Information on Canada
- Angus Reid Institute
- Environics
- …
More Public Opinion Polls

- Angus Reid Institute (ARI)
  - Assisted Suicide, 2014 [Canada]
  - Baggage Fees, 2014 [Canada]
  - Canadian Football League (CFL), 2014
  - Canadian Perceptions of India and Trade 2015
  - Concussion and Youth Sports [Canada], 2015
  - Disability and Accessibility, 2015 [Canada]
  - Disability in Canada, 2016 [General Population Sample]
  - Disability in Canada, 2016 [Disabled Sample]
  - Disasters, 2015 [Canada]
  - Election 2015 [Canada]
  - Election 2015: The Politics of Health Care [Canada]
  - Energy Industry, 2014 [Canada]
  - Gender, Sports, and the Women's World Cup, 2015 [Canada]
  - Global Threats, 2014 [Canada]
  - Hockey Night in Canada Year in Review, 2015
  - Hockey Night in Canada, 2014
  - Prayer in Canadian Public Life, 2015 [Canada]
  - Religion and Faith in Canada Today, 2015 [Canada]
  - Sexual Harassment in the Workplace, 2014 [Canada]
  - Truth and Reconciliation Commission, 2015 [Canada]
International Data Sources

- **ICPSR**
  - Inter-university Consortium for Political and Social Research
    - [https://www.icpsr.umich.edu/](https://www.icpsr.umich.edu/)
  - World renowned summer program in quantitative methods of social statistics
Thematic Collections

- Criminal Justice
  - National Archive of Criminal Justice Data

- Demographic
  - Data Sharing for Demographic Research
  - U.S. Census Data

- Health/Mental Health
  - Health and Medical Care Archive
  - National Addiction & HIV Data Archive Program
  - Multiple Chronic Conditions Research Network Data Archive

https://www.icpsr.umich.edu/icpsrweb/content/about/thematic-collections.html
International Social Survey Programme

- http://www.issp.org/

Recurring themes

- Role of Government
- Social Networks
- Family and Changing Gender Roles
- Work Orientations
- Religion
- Environment
- National Identity
- Citizenship
- Leisure Time and Sports
- Health and Health Care
<table>
<thead>
<tr>
<th>North America</th>
<th>Africa</th>
<th>Europe</th>
<th>Asia</th>
<th>India</th>
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<tr>
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<td>Austria</td>
<td>Finland</td>
<td>India</td>
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<td>USA</td>
<td>Tunisia</td>
<td>Austria</td>
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South America

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<td>Columbia</td>
<td>Croatia</td>
<td>Georgia</td>
<td>South Korea</td>
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Europe

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<th>Austria</th>
<th>Britain</th>
<th>Greece</th>
<th>Germany</th>
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<td>Bulgaria</td>
<td>Latvia</td>
<td>Great Britain</td>
<td>Slovenia</td>
<td>Spain</td>
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Asia

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<thead>
<tr>
<th>China</th>
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<tr>
<td>Egypt</td>
<td>Russia</td>
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<tr>
<td>Korea</td>
<td>Sweden</td>
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<td>Thailand</td>
<td>Turkey</td>
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<tr>
<td>Australia</td>
<td>Vietnam</td>
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</tbody>
</table>

http://www.issp.org/members/member-states/
Globalization of Personal Data (GPD)

- Implications of processing personal and population data in electronic format

- Canada, USA, France, Spain, Hungary, Mexico, Brazil, China, Japan

- 2006
  - Follow-up surveys
    - 2012, 2014
How do you access the data?

- **Different data portals**
  - Search for questions or variables across datasets
  - Perform online analyses
  - Create tables, graphs and charts
  - Download data in SPSS, SAS, Stata, …
- aka `<odesi>`

- Data portal for social science data for Ontario Universities

- `odesi.ca`
  - From our website
    - [http://www.library.carleton.ca/find/data](http://www.library.carleton.ca/find/data)
How to Use ODESI

Using the <odesi> data repository
- <odesi>: Navigating the <odesi> Repository
- <odesi>: Searching for Variables
- <odesi>: Finding, Subsetting and Downloading a Survey
- <odesi>: Creating a Cross Tabulation
- <odesi>: Downloading a Full Dataset

<odesi> help guides
- Finding, Subsetting and Downloading a Survey in <odesi> (.pdf)
- Searching for variables (.pdf)

https://library.carleton.ca/help/odesi-how-to-use-odesi
International Data Portals

- **CESSDA**
  - Consortium of European Social Science Data Archives
  - Data from over 17 European data producers
  - [http://www.cessda.net/](http://www.cessda.net/)

- **European Social Survey**
  - More than 36 nations
  - 8 rounds completed
  - [http://www.europeansocialsurvey.org/](http://www.europeansocialsurvey.org/)
What else can we do to help you?

- **Consultation**
  - on the use of data
  - Research data management (RDM)
    - *RDM plans*
What is Research Data Management (RDM)?

- **What is it?**

- **Includes:**
  - Sound practices
  - Data curation
  - Data stewardship
Benefits of RDM

- Confirmation of original findings
- Further research
- Planning follow-up studies
- Bonus …
Why RDM Now

- **Requirement by funders**
  - Tri-Council (SSHRC, CIHR and NSERC)
  - CFI
  - Genome Canada

- **Tri-Agency Statement of Principles on Digital Data Management**

- We should be ahead of the curve in this

- You are at the beginning of a research career
Tips

- Provide general tips and help on using data

- Things to remember about surveys
  - Sponsorship
  - Who collected the data
  - Does the author use anecdotal evidence when data is available

- Think!
Per capita cheese consumption correlates with number of people who died by becoming tangled in their bedsheets

Correlation: 94.71% (r=0.947091)

Data sources: U.S. Department of Agriculture and Centers for Disease Control & Prevention

Reference: http://www.tylervigen.com/spurious-correlations
Reference: Fox News (December 12, 2011)
http://flowingdata.com/category/statistics/mistaken-data/
Reference: Winnipeg Sun (2013)
http://flowingdata.com/category/statistics/mistaken-data/
Reference: Fox News (2009)
http://flowingdata.com/category/statistics/mistaken-data/
Everything about this picture is amazing.

Reference: https://twitter.com/DavidKenner/status/497301669676187648
Very important
  - All data should be cited

How to cite StatCan products
  - http://www.statcan.gc.ca/pub/12-591-x/12-591-x2009001-eng.htm

ODESI – again!

Find data:

Enter Search Term

Anywhere

Date:

Earliest

Present

Collections:

☑ All of <odesi>

☐ Statistics Canada (Microdata)

☐ Statistics Canada (Aggregate data)

☐ Public Opinion Polls

☐ Other Data

Additional Collections:

☐ Statistics Canada (Master File)

☐ CORA

☐ ICPSR

☐ Canadian Dataverses

Learn more

Search

Learning Tools

Video Tutorials

User Guide

FAQ

About

About <odesi>

Who can Access it

Terms of Use

<odesi> contains over 3.5 thousand datasets, including social sciences, with more additional dataset descriptions and searching.

Browse 

Contact
金融资源 - ODESI

- Consumer Surveys
  - CANADA
    - Canadian Financial Capability Survey
    - Family Food Expenditure (FOODEX)
    - Homeowner Repair and Renovation Survey and Home Energy Retrofit Survey
    - Household Energy Use Survey (HEUS)
    - Survey of Consumer Finances (SCF)
    - Survey of Family Expenditure (FAMEX)
    - Survey of Financial Security (SFS)
    - Survey of Household Spending (SHS)
    - Crime and Justice
Labour and Employment

- CANADA
  - Absence from Work Survey (AWS)
  - Annual Estimates of Employment, Earnings and Hours (AEEEH)
  - Canadian Income Survey (CIS)
  - Canadian Out of Employment Panel Survey (COEP)
  - Changes in Employment Survey
  - Changing Employment Relationships Survey
  - Compensation Sector Survey (CSS)
  - Cultural Labour Force Survey (CLFS)
  - Employment Dynamics (ED)
  - Employment Insurance Coverage Survey (EICS)
  - Income Trends in Canada
  - Interwar Labour Database
  - Job Mobility Survey (JMS)
  - Labour Force Historical Review
  - Labour Force Survey (LFS)
  - Labour Market Activity Survey (LMAS)
  - Maternity Leave Survey (MLS)
  - New Brunswick Wage Rate Survey (NBWRS)
  - Public Service Employee Survey (PSES)
  - Retirement and Pre-Retirement Survey
  - Survey of Annual Work Patterns (SAWP)
  - Survey of Apprentices and Journeymen in Alberta
  - Survey of Displaced Workers (SDW)
  - Survey of Job Opportunities (SJO)
  - Survey of Labour and Income Dynamics (SLID)
  - Survey of New Workers (SNW)
Business and Financial

- CANADA
  - Annual Retail Store Data
  - Annual Survey of Manufactures
  - Business Integrated Database
  - Canadian Business Patterns
  - Canadian Financial Markets Research Centre (CFMRC)
  - Concentration Ratios (CR)
  - Financial Performance Indicators for Canadian Business
  - Herfindahl Indexes (HI)
  - Inter-Corporate Ownership
  - Products Shipped by Canadian Manufacturers
  - Small Area and Administrative Data
  - Small Area Business and Labour Data
  - Small Area Retail Trade Estimates
  - Social Policy Simulation Database / Model
  - Survey of Innovation
  - Survey of Innovation and Business Strategy
  - Survey on Financing of Cooperatives (SF)
Microdata files
- Survey of Labour and Income Dynamics
- Households and the Environment Survey
- National Household Survey
- Census (back to 1871)
- Canadian Financial Capability Survey

Aggregate data files
- Canadian International Trade Data
- Census of Population (back to 1665)
- Provincial Economic Accounts
- Input-Output Tables
Beyond 20/20

Download the browser – *Very important!*

- *Beyond 20/20 Browser for Windows operating systems (18.9 mb)*
  To install this product, run «ProBrowser.exe»

Other tips and tricks

- *Using the Beyond 20/20 Data Browser*
  - Getting Started with Beyond 20/20
  - Customizing a Table in Beyond 20/20
  - Viewing Table Documentation in Beyond 20/20
  - Creating a Worksheet in Beyond 20/20
  - Searching Labels in Beyond 20/20
  - Charting Data in Beyond 20/20
  - Exporting Data with Beyond 20/20
Subjects

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<th>Subcategory</th>
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<td>Aboriginal peoples</td>
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<tr>
<td>Agriculture</td>
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<tr>
<td>Business and consumer services and culture</td>
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<td>Business performance and ownership</td>
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<td>Children and youth</td>
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<td>Construction</td>
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<td>Crime and justice</td>
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<td>Economic accounts</td>
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<td>Education, training and learning</td>
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<td>Energy</td>
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<td>Environment</td>
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<td>Families, households and housing</td>
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<td>Government</td>
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<td>Health</td>
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<td>Immigration and ethnocultural diversity</td>
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<tr>
<td>Income, pensions, spending and wealth</td>
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<td>Information and communications technology</td>
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<td>International trade</td>
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<td>Population and demography</td>
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<td>Prices and price indexes</td>
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<td>Retail and wholesale</td>
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<td>Science and technology</td>
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<td>Seniors</td>
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<td>Society and community</td>
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<td>Statistical methods</td>
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<tr>
<td>Transportation</td>
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<tr>
<td>Travel and tourism</td>
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</tbody>
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https://www150.statcan.gc.ca/n1/en/subjects?MM=1
Economic accounts

Key indicators

Canada

Real GDP by industry
(April 2018)
0.1% ↑
(monthly change)

Growth in real gross domestic product attributable to natural resource activity
(First quarter 2018)
-0.2% ↓
(quarterly change)

More economic accounts indicators

Filter results by
Sort by date

Keyword(s)
Search title, description, etc.

https://www150.statcan.gc.ca/n1/en/subjects/economic_accounts
Subject

Environment accounts

Government finance statistics
  Government financial flows and balance sheets
  Government revenue and expenditures
  Other content related to Government finance statistics

International accounts
  Balance of international payments
  International investment position
  International trade in services
  International transactions in securities
  Portfolio investment abroad
  Other content related to International accounts

National accounts and Gross Domestic Product
  Financial flows and national balance sheet accounts
  Gross Domestic Product by income and by expenditure accounts
  Gross Domestic Product by industry accounts
  Supply and use tables
  Other content related to National accounts and Gross Domestic Product

Productivity accounts
  Labour productivity
  Multifactor productivity
  Other content related to Productivity

https://www150.statcan.gc.ca/n1/en/subjects/economic_accounts
### International transactions in securities, portfolio transactions in Canadian and foreign securities, by geographic area, monthly (x 1,000,000)

**Frequency:** Monthly  
**Table:** 36-10-0030-01 (formerly CANSIM 376-0133)  
**Geography:** Canada

<table>
<thead>
<tr>
<th>Countries or regions</th>
<th>Summary of transactions ²</th>
<th>Apply</th>
</tr>
</thead>
<tbody>
<tr>
<td>All countries</td>
<td>Net flows</td>
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</tbody>
</table>

[How to use the data tables](https://www150.statcan.gc.ca/t1/tbl1/en/tv.action?pid=3610003001)  
[Tips on data tables for CANSIM users](https://www150.statcan.gc.ca/t1/tbl1/en/tv.action?pid=3610003001)
Resources for PhD students

- Dictionaries, Encyclopedias and Handbooks
- Literature Review
- Annotated Bibliography
- Finding Books & eBooks
- Grey Literature
- Subject Guides
- Journal Articles
- Citation Searching
- Journal Rankings
- Dissertations & Theses
- Data Sources
- Company & Industry Data
- Country Information
- Current Events & Business News
- Qualitative Research
- Publishing Opportunities
- Services for Grad Students
- Writing & Citing
- Important Government Sites

https://library.carleton.ca/research/course-guides/busi-phd
In sum ....

- **We have seen**
  - Where to get help with Data
  - What data services we offer
  - Different data sources and how to access them
  - What other services we offer
  - Different resources
Wednesday January 06, 2016  Three Problems With Spreadsheet

DID YOU SEE ANY ERRORS ON THE SPREADSHEET I PUT TOGETHER?

ONLY THREE.

WHAT ARE THEY?

YOUR DATA, YOUR FORMAT, AND YOUR FORMULAS.

http://dilbert.com/strip/2016-01-06
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Rm 122
MacOdrum Library
613.520.2600 x1121
jane.fry@Carleton.ca

http://www.library.carleton.ca/find/data