

Central Plains Federal Statistical Research Data Center

WHAT IT IS AND HOW IT APPLIES TO DISSERTATION RESEARCH

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What is a Federal Statistical RDC?

- A special research facility in partnership with the Census Bureau aiming to
 - improve the Federal Statistical System
 - o enhance academic research, infrastructure and recruitment
- An RDC facility offers
 - o an onsite Census Administrator to help you conduct research with CB data
 - o a secure computing environment in which Restricted-use data is accessed from within the RDC facility

What the RDC means for you





- 1st in the Great Plains
- = more resources and options for dissertation research in quantitative social sciences in the region
- = access to an elite research network, with its own conference and publications, of about 200 active investigators improves employment prospects

Advantages of Restricted-Use Secondary Microdata

- Detailed geographic identifiers
- Full population counts or full samples
- Original variables before they are processed
- Greater variety of variables
- Ability to link data to internal and external datasets
- Data size increases statistical power and accuracy
- Facilitates local and historical trend analysis
- AFFORDABLE —zero net cost for consortium members
 *does not apply to NCHS and AHRQ data files which require a fee

Special Opportunities for Graduate Students

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CES Dissertation Mentorship Program

- http://www.census.gov/ces/researchprograms/mentorship.html
- o 1 year mentorship with Census Bureau employee
- Up to \$50k fellowship
- Also qualifies for strong Master's candidates
- o 5-page written proposal, C.V., Advisor C.V., Transcripts, & Letter of Recommendation
- Applications due February 28th

See Available Data Sets at:







https://www.census.gov/about/adrm/fsrdc/a bout/available data.html

Data Set	Frequency	Unit of Enumeration	Availability	Sponsor
Annual Capital Expenditures Survey (ACES) Includes Information and Communication Technology (ICT) Supplement starting in 2003	Annually	Firm	1993–2012	Census Bureau
Annual Retail Trade Survey (ARTS)	Annually	Firm	1999–2012	Census Bureau
Annual Wholesale Trade Survey (AWTS)	Annually	Firm	1995–2012	Census Bureau
Business Expenditures Survey (BES) Also known as Business Expenses Supplement	Every 5 Years	Firm	1992–2007	Census Bureau
Business Research & Development and Innovation Survey (BRDIS) See also SIRD	Annually	Firm	2008–2011	National Science Foundation
Enterprise Summary Report (ESR)	Every 5 Years	Firm	1977–1992	Census Bureau
Exporter Database (EDB)	Annually	Firm	1997, 2002, 2004–2010	International Trade Administration
Kauffman Firm Survey (KFS) ⊞ Must be used in conjunction with Census Bureau restricted-use microdata	Annual	Firm	2004–2010	Ewing Marion Kauffman Foundation
Manufacturers' Shipments, Inventories, and Orders (M3)	Monthly	Firm	1992–2012	Census Bureau
Quarterly Financial Report (QFR)	Annually	Firm	1977–2014	Census Bureau
Service Annual Survey (SAS)	Annually	Firm	1991–2012	Census Bureau

Restricted-Use Transactions Microdata					
Data Set	Frequency	Unit of Enumeration	Availability	Sponsor	
Commodity Flow Survey (CFS)	Various	Establishment	1993, 1997, 2002, 2007	Department of Transportation (DOT)	
Foreign Trade Data – Exports (EXP)	Monthly	Transaction	1992–2011	Census Bureau	
Foreign Trade Data - Imports (IMP)	Monthly	Transaction	1992–2011	Census Bureau	
Longitudinal Firm Trade Transactions Database (LFTTD)	Monthly	Transaction	1992–2011	Census Bureau	

Every 5 Years

1982-2007

1972-2007

Survey of Business Owners (SBO)

Survey of Industrial Research and Development (SIRD)
See also BRDIS

Data Set	Frequency	Unit of Enumeration	Availability	Sponsor
American Community Survey (ACS)	Annually	Housing Unit	1996-2012	Census Bureau
American Housing Survey (AHS)	Annually	Housing Unit	1984–1999, 2001–2005, 2007, 2009, 2011	Housing and Urban Development (HUD) B
Current Population Survey (CPS) Annual Social and Economic (ASEC) Supplement (March)	Annually	Household	1967–2013	Census Bureau and Bureau of Labor Statistics (BLS)
Current Population Survey (CPS) Food Security Supplement (December)	Annually	Household	2001–2012	Census Bureau and U.S. Department of Agriculture (USDA)
Decennial Census	Every Ten Years	Household	1970, 1980, 1990, 2000, 2010	Census Bureau
National Crime Victimization Survey (NCVS)	Annually	Household	2006-2012	Bureau of Justice Statistics (BJS)
National Longitudinal Mortality Study (NLMS)	Variable	Individual	Through 1998*	Census Bureau, National Cancer Institute (NCI), National Center for Health Statistics (NCHS), National Heart, Lung, and Blood Institute (NHLBI), and National Institute on Aging (NIA)
National Longitudinal Survey (NLS)	Annually	Individual	1966–1999	Bureau of Labor Statistics (BLS)
Survey of Income and Program Participation (SIPP) Longitudinal	Variable	Household	1984–1988, 1990–1993	Census Bureau
Survey of Income and Program Participation (SIPP) Panels	Monthly	Household	1984, 1990–1993, 1996, 2001, 2004, 2008	Census Bureau

- · National Home and Hospice Care Survey (NHHCS) and National Home Health Aide Survey
- National Survey of Residential Care Facilities (NSRCF)
- National Study of Long-Term Care Providers (NSLTCP)
- · National Health Interview Survey (NHIS)
- · National Survey of Family Growth (NSFG)
- · State and Local Area Integrated Telephone Survey (SLAITS)
 - National Survey of Children's Health (NSCH)
 - · National Survey of Children with Special Health Care Needs (CSHCN)
- · NCHS Data Linkage Activities
 - Linked Mortality Data Products
 - · Linked Medicare Enrollment and Claims Files Data
 - Linked Medicaid Enrollment and Claims Data
- Linked Social Security Benefit History Data
- · National Vital Statistics System (NVSS) Data Release and Access Policy
- · National Maternal and Infant Health Survey

Restricted—Use Economic Census* Microdata Data Set Frequency Unit of Enumeration Availability					
Data Set	Frequency	Unit of Enumeration	Availability		
Census of Auxiliary Establishments (AUX)	Every 5 Years	Establishment	1977–2007		
Census of Construction Industries (CCN)	Every 5 Years	Establishment	1972-2007		
Census of Finance, Insurance, and Real Estate (CFI)	Every 5 Years	Establishment	1992-2007		
Census of Island Areas – Puerto Rico (CIAPR)	Every 5 Years	Establishment	1992-2007		
Census of Manufactures (CMF)	Every 5 Years	Establishment	1963, 1967–2007		
Census of Mining (CMI)	Every 5 Years	Establishment	1987-2007		
Census of Retail Trade (CRT)	Every 5 Years	Establishment	1977-2007		
Census of Services (CSR)	Every 5 Years	Establishment	1977-2007		
Census of Transportation, Communications, and Utilities (CUT)	Every 5 Years	Establishment	1987–2007		
Census of Wholesale Trade (CWH)	Every 5 Years	Establishment	1977-2007		

*All economic censuses are sponsored by Census Bureau

Data Set	Frequency	Unit of Enumeration	Availability	
Compustat-SSEL Bridge (CSB)**	Annually	Establishment	1981-2005	
Form 5500 Bridge File	Annually	Establishment	1992-2006	
Integrated Longitudinal Business Database (ILBD)	Various	Establishment	1977, 1982, 1987, 1992, 1994–2010	
Longitudinal Business Database (LBD)	Annually	Establishment	1976-2012	
Ownership Change Database (OCD)	Every 5 Years (Discontinued)	Establishment	1963, 1967–2002	
Standard Statistical Establishment List/Business Register (SSEL)	Annually	Establishment	1974–2012	

**The CSB was constructed using the 2001 and 2005 Compustat and its history files

Paetricted-Liee Establishment Microdata

Data Set	Frequency	Unit of Enumeration	Availability	Sponsor
Annual Survey of Manufactures (ASM)	Annually	Establishment	1973-2011	Census Bureau
Current Industrial Reports (CIR)	Annually (Discontinued)	Establishment	1993–2011	Census Bureau
Manufacturing Energy Consumption Survey (MECS)	Various	Establishment	1985, 1988, 1991, 1994, 1998, 2002, 2006	Energy Information Administration (EIA)
Medical Expenditure Panel Survey – Insurance Component (MEPS-IC)	Annually	Establishment	1996–2006, 2008–2013	Agency for Healthcare Research and Quality (AHRQ)
National Employer Survey (NES)	Various	Establishment	1994, 1996, 1997, 1998	Department of Education (DOE)
Quarterly Survey of Plant Capacity Utilization (QPC) / Survey of Plant Capacity Utilization (PCU)	Quarterly	Establishment	1974–2013	Federal Reserve (FED)
Survey of Manufacturing Technology (SMT)	Various (Discontinued)	Establishment	1988, 1991, 1993	Census Bureau
Survey of Pollution Abatement Costs and Expenditures (PACE)	Various (Discontinued)	Establishment	1974–1982, 1984–1986, 1988–1994, 1999, 2005	Census Bureau / Environmental Protection Agency (EPA)

Types of Data Sets Available



Economic (42)

- o 10 Economic Censuses
- Longitudinal Business Database
- Survey of Pollution Abatement Costs and Expenditures
- Survey of Business Owners
- Longitudinal Employer-Household
 Dynamics (7)

• Socio-Demographic (12)

- Decennial Census
- National Crime Victimization
 Survey
- American Community Survey
- National Longitudinal Mortality
 Study

Health (couple dozen)

- National Health and Nutrition
 Examination Survey
- National Maternal and Infant Health Survey
- National Ambulatory Medical Care Survey
- National Nursing Home Survey
- Medical Expenditure Panel Survey(5)

Decennial Census Example



- Public-Use
 - o 1%, 5% sample sizes
 - o PUMA
 - Top coding
 - No process data
 - Collapsed Categories
 - × Example:
 - Real estate taxes paid: \$0-\$9150 in 67 categories

- Restricted-Use
 - o 16% sample size
 - o Block/Track/Place
 - Full distribution
 - Details of collection
 - Full Distribution
 - **x** Example:
 - Real estate taxes paid: \$0-\$22,500 in single dollars

Decennial Census Research Examples

- **Detailed Geography:** Bayer, Parick and Stephen L. Ross, 2000. "Place of work and place of residence: Informal hiring networks and labor market outcomes," *The Journal of Political Economy* 116 (6):1150-96
- **Household mobility:** Walsh, Randall and Terra Mckinnish, 2010. "Who gentrifies low-income neighborhoods?" *Journal of Urban Economics* 67 (2): 180-93
- **Linking to external data:** Davis, Lucas W. 2011. "The effect of power plants on local housing values and rents." *Review of Economics and Statistics* 93 (4): 1391-402

How to Get Started



- After formulating a research question, consult rdc.unl.edu in order to:
 - o Identify the dataset and specific variables you require
 - Choose a quantitative method of analysis (e.g. ANOVA, regression, c-b analysis, etc.)
 - Determine outputs desired (e.g. descriptive stats, regression coefficients, box plots, etc.)
- Contact **Veronica**, the CPRDC Administrator, to get her input on what you come up with and next steps
 - o veronica.l.roth@census.gov
- The sooner you get started the better because it takes
 Census up to 90 days to review proposals and up to an
 additional 90 days to obtain special sworn status



Upcoming Brown Bag Lunches

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"Writing an RDC Proposal" by Veronica Roth

Date: Wednesday April 13th, 2016

Time: 12pm -1pm

Place: Whittier Center Room 344

Date: Monday May 9th, 2016

Time: 12pm -1pm

Place: TBD

Check <u>rdc.unl.edu</u> for updates

... the more the merrier

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Please share information about this resource with students and faculty members in your program

rdc.unl.edu

Thank You

Key Contacts





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UNL



USD



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