

Northwest Census Research Data Center (NWCRDC)

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Center for Economic Studies
US Bureau of the Census

Any opinions and conclusions expressed herein are those of the author and do not necessarily represent the views of the U.S. Census Bureau.

NWCRDC Staff and Contact Info

- <http://depts.washington.edu/nwcrdc/>
- Professor Mark Ellis, ellism@uw.edu, NWCRDC Director
- Mike Babb, babbm@uw.edu, NWCRDC administrator
- Located on the corner of 15th Ave NE and NE 42st in Seattle in the George Russell Jr. Hall

Who can access the RDC?

- **Qualified researchers with approved projects can conduct research in RDCs that benefit Census Bureau programs.**
- **All researchers are sworn for life to protect the confidentiality of the data.**

Why Restrict Microdata Access?

- Titles 13 (Census) / 26 (IRS) U.S.C. and CIPSEA protect confidentiality
 - Respondent(s) cannot be identified
 - Only Census employees and temporary staff can access microdata
 - Use limited to statistical purpose
 - Access must potentially provide legitimate benefits to Census Bureau programs

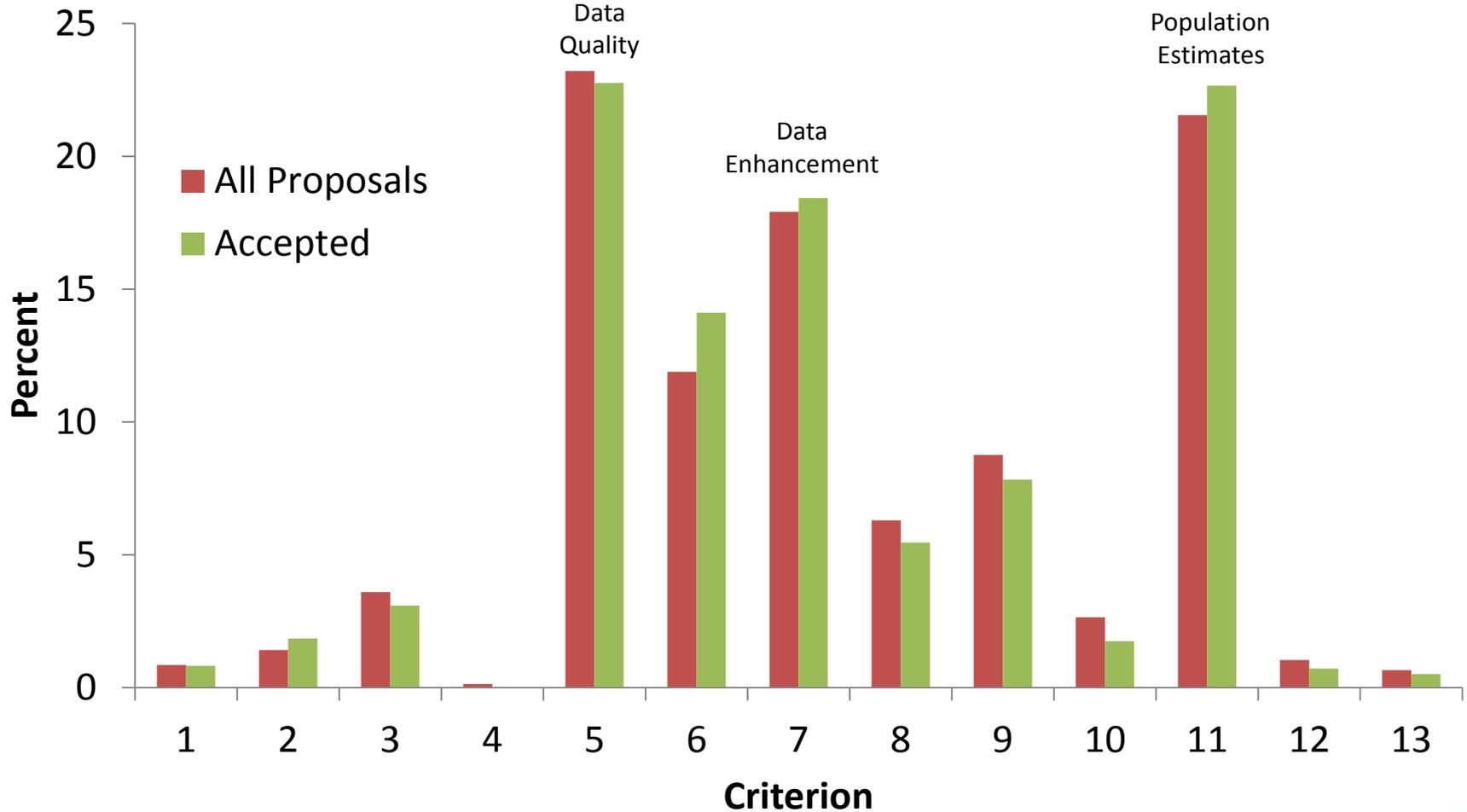
Benefits – part 1

1. Evaluating concepts and practices underlying Census Bureau statistical data collection and dissemination practices, including consideration of continued relevance and appropriateness of past Census Bureau procedures to changing economic and social circumstances.
2. Analyzing demographic and social or economic processes that affect Census Bureau programs, especially those that evaluate or hold promise of improving the quality of products issued by the Census Bureau.
3. Developing means of increasing the utility of Census Bureau data for analyzing public programs, public policy, and/or demographic, economic, or social conditions.
4. Conducting or facilitating Census Bureau census and survey data collection, processing or dissemination, including through activities such as administrative support, information technology support, program oversight, or auditing under appropriate legal authority.
5. Understanding and / or improving the quality of data produced through a Title 13, Chapter 5 survey, census or estimate;
6. Leading to new or improved methodology to collect, measure, or tabulate a Title 13, Chapter 5 survey, census or estimate;

Benefits – part 2

7. Enhancing the data collected in a Title 13, Chapter 5 survey or census. For example: a. Improving imputations for non-response; b. Developing links across time or entities for data gathered in censuses and surveys authorized by Title 13, Chapter 5.
8. Identifying the limitations of, or improving, the underlying business register, household Master Address File, and industrial and geographical classification schemes used to collect the data;
9. Identifying shortcomings of current data collection programs and / or documenting new data collection needs;
10. Constructing, verifying, or improving the sampling frame for a census or survey authorized under Title 13, Chapter 5;
11. Preparing estimates of population and characteristics of population as authorized under Title 13, Chapter 5;
12. Developing a methodology for estimating non-response to a census or survey authorized under Title 13, Chapter 5;
13. Developing statistical weights for a survey authorized under Title 13, Chapter 5.

Distribution of Benefit Criterion



Proposal Documents

- Predominant Purpose Statement (~ 5 pages)
 - Describe in very explicit detail how the research will benefit U.S. Census Bureau programs.
 - Usually 1 – 3 benefits
 - Justify the need and use of every FTI variable.
- Proposal (~ 15 pages)
 - Overview
 - Methodology
 - Estimating equations / models to fit
 - Measures constructed
 - Requested Data
 - Expected Output
 - Duration and Funding

The Proposal Process

- Contact Mike Babb, michael.babb@census.gov, to discuss feasibility
- Craft 2 – 3 page document describing the research you want to do.
- Further Proposal and Predominant Purpose Statement development
 - <http://depts.washington.edu/nwcrdc/proposal-guidelines>
- Census Bureau Reviews the proposal for:
 - Feasibility
 - Proposed benefits to Census
 - Scientific merit
 - Statistical purpose
 - Need for non-public data
 - Risk of disclosure
 - Availability of resources
- Other Agency Review: IRS generally reviews proposals using economic and finance data (Federal Tax Information – FTI).
- Special Sworn Status (SSS) application

Data Availability

- <http://depts.washington.edu/nwcrdc/data>
- Economic Data
 - establishment and firm level
- Combined Employer/Employee Data
 - Longitudinal Employer-Household Dynamics (LEHD)
- Public Health Data
 - Agency for Healthcare Research and Quality (AHRQ)
 - National Center for Health Statistics (NCHS)
- Demographic Data
 - household or individual level

Economic Data

- No publicly-available microdata
 - Internal data at establishment and firm level
 - Universal scope
 - Detailed industry and geography
- Linking Data
 - Consistent identifiers
 - Business register
 - Can be linked with external data such as compustat and the Kauffman Firm Survey.

Firm Surveys

| Database Name | Years Available |
|---|-------------------------|
| Annual Capital Expenditures Survey (ACES) | 1993 – 2009 |
| Annual Retail Trade Survey (ARTS) | 1999 – 2009 |
| Business Expenditures Survey (BES) | 1992 – 2007 |
| Business Research & Development and Innovation Survey (BRDIS) | 1972 – 2008 |
| Enterprise Summary Report (ESR) | 1977, 1982, 1987, 1992 |
| Exporter Database (EDB) | 1997, 2002, 2004 – 2008 |
| Quarterly Financial Report (QFR) | 1977 – 2009 |
| Service Annual Survey (SAS) | 2002 – 2010 |
| Survey of Business Owners (SBO) | 1982 – 2002 |
| Survey of Industrial Research and Development (SIRD) | 1972 – 2007 |

Establishment Surveys

| Database Name | Years Available |
|---|---------------------------------------|
| Annual Survey of Manufacturers (ASM) | 1973 – 2009 |
| Current Industrial Reports (CIR) | 1993 – 2008 |
| Manufacturing Energy Consumption Survey (MECS) | 1985, 1988, 1991, 1998, 2002, 2006 |
| National Employer Survey (NES) | 1994, 1996, 1997, 1998 |
| Quarterly Survey of Plant Capacity Utilization (QPC) | 2007 – 2008 |
| Survey of Manufacturing Technology (SMT) | 1988, 1991, 1993 |
| Survey of Plant Capacity Utilization (PCU) | 1974 – 2011 |
| Survey of Pollution Abatement Costs and Expenditures (PACE) | 1974 – 2005 |

Economic Census

| Database Name | Years Available |
|---|-------------------|
| Census of Auxiliaries (AUX) | 1977 – 2007 |
| Census of Construction Industries (CCN) | 1972 – 2007 |
| Census of Finance, Insurance, Real Estate (CFI) | 1992 – 2007 |
| Census of Manufacturers (CMF) | 1963, 1967 – 2007 |
| Census of Mining (CMI) | 1987 – 2007 |
| Census of Retail Trade (CRT) | 1977 – 2007 |
| Census of Services (CSR) | 1977 – 2007 |
| Census of Transportation, Communications, Utilities (CUT) | 1987 – 2007 |
| Census of Wholesale Trade (CWH) | 1977 – 2007 |

Business Register Data

| Database Name | Years Available |
|--|-----------------|
| Compustat-SSEL Bridge (CSB) | 1981 – 2005 |
| Form 5500 Bridge File | 1992 – 2006 |
| Integrated Longitudinal Business Database (ILBD) | 1977 – 2005 |
| Longitudinal Business Database (LBD) | 1976 – 2005 |
| Ownership Change Database (OCD) | 1963 – 2002 |
| Standard Statistical Establishment List / Business Register (SSEL) | 1975 – 2007 |

Transactions Data

| Database Name | Years Available |
|-----------------------------------|------------------------|
| Commodity Flow Survey (CFS) | 1993, 1997, 2002, 2007 |
| Foreign Trade Data - Export (EXP) | 1992 – 2009 |
| Foreign Trade Data - Import (IMP) | 1992 – 2009 |

Linked Business and Household Data Demographic Data

| Database Name | Survey Unit | Time Periods Available | Description |
|---|--|------------------------|--|
| LEHD Employer Characteristics File(LEHD-ECF) | Establishments, Companies and/or Enterprises | 1989-2008 | Quarterly measures of payroll and monthly employment (LEHD Data Documentation) |
| LEHD Geocoded Address List (LEHD-GAL) | Establishments, Companies and/or Enterprises | 1990-2008 | Unique commercial and residential addresses in a state geocoded to the Census Block and latitude/longitude coordinates. |
| LEHD Employer Quarterly Workforce Indicators (LEHD-QWI) | Establishments, Companies and/or Enterprises | 2008 | Quarterly measures of workforce composition and worker turnover at the establishment level for selected states (LEHD Data Documentation) |

Agency for Healthcare Research and Quality (AHRQ)

- Fully specified ICD-9 medical condition codes
- Fully specified industry and occupation codes
- State and county FIPS codes
- Census tract and block-group codes
- Non-public use data elements
 - Asset information
 - Imputed NDC codes
- Federal and state marginal tax rates

National Center for Health Statistics (NCHS)

- Geographic Variables
- Linked Data Products
- Genetic Variables (NHANES phenotype data)
- Temporal Variables
 - e.g. dates of birth, death, exams
- Detailed Race/Ethnicity Variables
- Sensitive Variables
 - e.g. youth sexual behavior and mental health
- Long Term Health Care Survey Merging Variables

National Longitudinal Mortality Study (NLMS)

- The NLMS is a database developed to examine the relationships between mortality and self-reported demographic and SES characteristics among a representative sample of the U.S. non-institutionalized population
- Data available at the tract level
- Detailed occupation codes, educational attainment, and employment
- Detailed death information: date, cause, state of death
- Information on tobacco use, chronic health ailments such as diabetes and asthma, vaccination status.

Public Health Data

| Database Name | Years Available | Sponsor |
|--|---|----------------|
| Medical Expenditure Panel Survey - Insurance Component (MEPS-IC) | 1992-2002, 2008-2009 | AHRQ |
| Medical Expenditure Panel Survey - Household Component (MEPS-HC) | 1974-2011 | AHRQ |
| National Health and Nutrition Examination Survey (NHANES) | Periodic: 1971-74, 1976-80, 1988-94; Continuous beginning in 1999 | NCHS |
| National Health Interview Survey (NHIS) | 1969 - 2006 | NCHS |
| National Longitudinal Mortality Study (NLMS) | 1974 - 2005 | Census and NCI |
| National Survey of Family Growth (NSFG) | 1988, 1991, 1993 | NCHS |

Demographic Data

- Individual and household data
- Restricted use RDC data
 - more detailed geography
 - less top-coding/censoring
 - additional variables

Demographic Data

| Database Name | Years Available | Sponsor |
|---|------------------------|----------------|
| American Community Survey | 1993-2009 | Census |
| American Housing Survey - Metropolitan Survey | 1999-2009 | Census |
| American Housing Survey - National | 1992-2007 | Census |
| CPS Annual Demographics Survey (March Supplement) | 1977, 1982, 1987, 1992 | BLS |
| Decennial Census Long Form Data | 1970, 1980, 1990, 2000 | Census |
| National Longitudinal Survey | 1977, 1982, 1987, 1992 | BLS |
| Survey of Income and Program Participation | 1977-2009 | Census |
| SIPP-SSA Files (MBR, SSR, MEF and 831 Files) | 2002-2010 | Census and SSA |
| Survey of Program Dynamics | 1982-2007 | Census |
| National Crime Victimization Survey (NCVS) | 1972-2008 | BJS |

Thank you to the people and institutions who made the NWCRDC possible

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 - School of Social Work
 - Associate Dean for Research, David Takeuchi
 - Dean, Edwina Uehara
 - Central Administration
 - Vice-Provost for Research, Dave Eaton
- State of Washington
 - Office of Financial Management, Marc Baldwin
- National Science Foundation

Questions:

- Contact Mike Babb:
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