

Sources of routinely collected data

Examples of UW and King County Resources

- Vista
 - Web-based data exploration tool
 - Geocoded vital statistics data
 - Available on UW lab computers
- BRFSS Stata
 - Menu-based interface to look at complex survey data (like BRFSS) to do time trends and descriptive analysis
 - Contact: David Solet david.solet@metrokc.gov

2000 Washington State Population Survey (SPS)

- Biennial survey of WA state residents started in 1998
- Employment, income, education, immigration, health, and health insurance
- Structure similar to Current Population Survey but oversample by race and geographical area
- Data: <http://www.ofm.wa.gov/sps/2000/index.htm>

National Resources: Access Points

- ICPSR
- CDC / CDC WONDER
- HSRR
- HHS Directory

2000 Decennial Census

- Where to start: American Fact Finder
http://factfinder.census.gov/home/saff/main.html?_lang=en
- Click on Data Sets
 - SF-1 – 100% data for population estimates
 - SF-2 – 100% data with more detailed race/ethnicity info than SF-1
 - SF-3* – sample data of persons and households
 - SF-4 – sample data with ancestry categories

Behavioral Risk Factor Surveillance System (BRFSS)

- Study Purpose: Collect uniform state-based data on preventive health practices and risk behaviors
- Study Design / Data collection: Ongoing RDD-telephone survey interviewing a national probability sample with a new sample each year
 - Core components same across states, optional modules and state-specific questions vary across states
- Population: US non-institutionalized population, aged 18+
- Data Availability: about 8 months after collection, must submit a data request form; state specific requests should be made to state BRFSS coordinator
- Where to start: <http://www.cdc.gov/brfss/index.htm>
- Core and Optional module questionnaires available at:
<http://www.cdc.gov/brfss/brfsques.htm>

- WA State information: http://www.doh.wa.gov/EHSPHL/CHS/CHS-Data/brfss/brfss_homepage.htm

Example of National Cohort Data Set

- Study Name: NHANES I Epidemiologic Follow-up Study (NHEFS)
- 14,407 participants who were 25-74 years of age in NHANES I (1971-75).
- Study Design/Collection Method:
 - first(1982-84) in-person interview,
 - some clinical data,
 - hospital and nursing home records
 - death certificates,
 - other waves telephone interview, record collection
- Data availability: from HSIC
- Key References: Technical documentation available on the web at: www.cdc.gov/nchs/about/major/nhefs/nhefs.htm

British Cohort Studies

- Study Purpose: Assess the effects of changing social and economic circumstances and policies on subsequent education, employment, health and citizenship outcomes in adult life
- Study Population: Varies by study
- Study Design/Collection Method: Census data linked with complete Census linked with vital event records
- Data availability: subsets of data available at <http://www.cls.ioe.ac.uk> and <http://www.celsius.lshtm.ac.uk>

Finnish Cohort Studies (1 in men, 1 in women)

- Study Purpose: Examine how childhood exposures affect adult health outcomes
- Study Population : women or men who were born in Helsinki University Central Hospital during 1924-33 and who went to school in Helsinki
- Study Design/Collection Method: birth, school health, hospital admission and death records
- Data availability: ? Ask senior author(s)
- Key References: *Forsen T et al. BMJ 1999; 319:1403–7.*
Eriksson JG et al. BMJ 2001; 322:949–53.

Practical Considerations

- Data storage format
 - Tapes, CD-ROM, ASCII files on the web
 - Do you have the right hardware and software to access the data?
- Is this the best data available to answer your question of interest?
 - Is it old/ has anything changed since it was collected?
 - Are there any other data sources?
- Most sources require a data user agreement before allowing access to data
- Wise to contact investigators of ongoing studies
- Make sure UW IRB requirements are met

Resources

UW Library <http://www.lib.washington.edu/types/datasets/>

Department of Health Services Information Center

<http://depts.washington.edu/hsic/stats/index.shtml>

Mostly public use data from NCHS –

Data access: Contact Yuki Durham yukid@u.washington.edu

Center for Social Science Computation and Research (CSSCR)

Data archive: <http://julius.csscr.washington.edu/data.htm>

ICPSR, Census and economic time series data from Datastream

Data Access: Contact Fred Nick fred@u.washington.edu

Communities Count

- Collects primary data from telephone and combines with routinely collected data
- Report on social and health indicators available at: www.communitiescount.org
- Possible access to original data - Kathryn Horsley kathryn.horsley@metrokc.gov

2004 Healthy Youth Survey

- A future resource?
- Measures health risk behaviors among WA youth

National Data Resources

- The Inter-university Consortium for Political and Social Research (ICPSR)
- <http://www.icpsr.umich.edu/index-medium.html>
- Archive of social science data for research and instruction
- ICPSR will help identify data for a specific research project
- Hosts a number of topical archives:
 - [Health and Medical Care Archive](#) (HMCA)
 - [International Archive of Education Data](#) (IAED)
 - [National Archive of Computerized Data on Aging](#) (NACDA)
 - [National Archive of Criminal Justice Data](#) (NACJD)
 - [Substance Abuse & Mental Health Data Archive](#) (SAMHDA).”

CDC WONDER <http://wonder.cdc.gov/>

- [AIDS-Public Use, AIDS Microfiche](#)
- [Assisted Reproductive Technology Reports](#)<http://wonder.cdc.gov/wonder/outside/asthallerg.html>
- [Asthma and Allergies](#)<http://wonder.cdc.gov/wonder/outside/brfss1.html>
- [Asthma Prevalence and Environmental Health](#)<http://wonder.cdc.gov/wonder/outside/asthprev.html>
- [Asthma Prevalence, Health Care Use and Mortality](#)<http://wonder.cdc.gov/wonder/outside/brfss.html>
- [BRFSS - Behavioral Risk Factor Surveillance System](#)<http://wonder.cdc.gov/seerJ.html>
- [Cancer Incidence - Surveillance, Epidemiology, and End Results \(SEER\)](#)<http://wonder.cdc.gov/wonder/outside/cdcrec.html>
- [CDC Recommends](#)<http://wonder.cdc.gov/census.html>
- [Census](#)<http://wonder.cdc.gov/wonder/outside/cdp.html>
- [Chronic Disease Prevention Databases](#)<http://wonder.cdc.gov/codekit.html>
- [Codes and Classifications \(CodeKit\)](#)<http://wonder.cdc.gov/wonder/outside/chid.html>

- [Combined Health Information Database](http://wonder.cdc.gov/mortSQL.html)<http://wonder.cdc.gov/mortSQL.html>
- [Compressed Mortality File or CMF](http://wonder.cdc.gov/data2010)<http://wonder.cdc.gov/data2010>
- [DATA2010 ...the Healthy People 2010 Database](http://wonder.cdc.gov/wonder/outside/fars.html)<http://wonder.cdc.gov/wonder/outside/fars.html>
- [FARS - Fatal Accident Reporting](http://wonder.cdc.gov/wonder/outside/hazdat.html)<http://wonder.cdc.gov/wonder/outside/hazdat.html>
- [Hazardous Substance Release and Health Effects \(HazDat\)](http://wonder.cdc.gov/data2010)<http://wonder.cdc.gov/data2010>
- [Healthy People 2010 Database \(Data2010\)](http://wonder.cdc.gov/wonder/outside/brfss2.html)<http://wonder.cdc.gov/wonder/outside/brfss2.html>
- [Health Risk Behaviors at a Glance](http://wonder.cdc.gov/wonder/outside/wisqars.html)<http://wonder.cdc.gov/wonder/outside/wisqars.html>
- [Injury Mortality Data](http://wonder.cdc.gov/lbdJ.html)<http://wonder.cdc.gov/lbdJ.html>
- [Leading Causes of Death](http://wonder.cdc.gov/micr.html)<http://wonder.cdc.gov/micr.html>
- [Linked Birth/Infant Death Records](http://wonder.cdc.gov/wonder/outside/medtest.html)<http://wonder.cdc.gov/wonder/outside/medtest.html>
- [Medical Tests for OSHA Regulated Substances \(MedTest\)](http://wonder.cdc.gov/micr.html)<http://wonder.cdc.gov/micr.html>
- [Microfiche](http://wonder.cdc.gov/mmwr.html)<http://wonder.cdc.gov/mmwr.html>
- [Morbidity and Mortality Weekly Report \(MMWR\)](http://wonder.cdc.gov/NOMS.html)<http://wonder.cdc.gov/NOMS.html>
- [Mortality - occupational \(NOMS\)](http://wonder.cdc.gov/mortSQL.html)<http://wonder.cdc.gov/mortSQL.html>
- [Mortality - Underlying Cause of Death](http://wonder.cdc.gov/nataJ.html)<http://wonder.cdc.gov/nataJ.html>
- [Natality](http://wonder.cdc.gov/wonder/outside/nasd.html)<http://wonder.cdc.gov/wonder/outside/nasd.html>
- [National Agricultural Safety Database](http://wonder.cdc.gov/wonder/outside/noes.html)<http://wonder.cdc.gov/wonder/outside/noes.html>
- [National Occupational Exposure Survey \(NOES\)](http://wonder.cdc.gov/niosJ.html)<http://wonder.cdc.gov/niosJ.html>
- [NIOSH Mortality and NOMS](http://wonder.cdc.gov/wonder/outside/nrevss.html)<http://wonder.cdc.gov/wonder/outside/nrevss.html>
- [National Respiratory and Enteric Virus Surveillance System \(NREVSS\)](http://wonder.cdc.gov/wonder/outside/safety.html)<http://wonder.cdc.gov/wonder/outside/safety.html>
- [Occupational Safety and Health Topics](http://wonder.cdc.gov/wonder/outside/nioshtic2.html)<http://wonder.cdc.gov/wonder/outside/nioshtic2.html>
- [Occupational Safety Resource Database \(NIOSHTIC 2\)](http://wonder.cdc.gov/wonder/outside/npg.html)<http://wonder.cdc.gov/wonder/outside/npg.html>
- [Pocket Guide to Chemical Hazards \(NPG\)](http://wonder.cdc.gov/popu00.html)<http://wonder.cdc.gov/popu00.html>
- [Population Projections per State](http://wonder.cdc.gov/wonder/pr-evguid/prevguid.html)<http://wonder.cdc.gov/wonder/pr-evguid/prevguid.html>
- [Prevention Guidelines \(archived collection\)](http://wonder.cdc.gov/wonder/outside/nrevss.html)<http://wonder.cdc.gov/wonder/outside/nrevss.html>
- [Respiratory and Enteric Virus Surveillance System](http://wonder.cdc.gov/wonder/sci_data/sci_data.asp)http://wonder.cdc.gov/wonder/sci_data/sci_data.asp
- [Scientific Data and Documentation](http://wonder.cdc.gov/seeRJ.html)<http://wonder.cdc.gov/seeRJ.html>
- [SEER - Cancer Surveillance, Epidemiology, and End Results](http://wonder.cdc.gov/sexu00.html)<http://wonder.cdc.gov/sexu00.html>
- [Sexually Transmitted Disease Morbidity](http://wonder.cdc.gov/wonder/outside/std.html)<http://wonder.cdc.gov/wonder/outside/std.html>
- [Sexually Transmitted Disease Surveillance and Statistics](http://wonder.cdc.gov/wonder/cgi-bin/asp/CodeKit/CodeKit_Home.asp)http://wonder.cdc.gov/wonder/cgi-bin/asp/CodeKit/CodeKit_Home.asp
- [Standard Reference Tables](http://wonder.cdc.gov/wonder/outside/tb.html)<http://wonder.cdc.gov/wonder/outside/tb.html>
- [Tuberculosis Surveillance](http://wonder.cdc.gov/wonder/outside/vaers1.html)<http://wonder.cdc.gov/wonder/outside/vaers1.html>
- [Vaccine Adverse Event Reporting System \(VAERS\)](http://wonder.cdc.gov/wonder/outside/yrbss.html)<http://wonder.cdc.gov/wonder/outside/yrbss.html>
- [YRBSS - Youth Risk Behavior Surveillance System](http://www.nlm.nih.gov/nichsr/hsrr_search/)http://www.nlm.nih.gov/nichsr/hsrr_search/

Health Services and Sciences Research Resources
http://www.nlm.nih.gov/nichsr/hsrr_search/

“HSRR contains information about research datasets and instruments/indices employed in Health Services Research, and the Behavioral and Social Sciences and Public Health with links to PubMed and additional resources.”

Health and Human Services Directory of Data Resources

Compilation of all major data collection sponsored by the U.S. Department of Health and Human Services (HHS)

- List of links to HHS sponsored recurring surveys, public health surveillance systems, disease registries and programmatic data systems and some databases from one-time studies
- Some projects only have data available from published reports
- Other projects have publicly available microdata files

Available at: <http://aspe.os.dhhs.gov/datacncl/datadir/>

International Resources

- WHO
 - WHOSIS – Statistical Information System <http://www3.who.int/whosis/menu.cfm>
- United Nations _ Handbook on Social Indicators
<http://unstats.un.org/unsd/>
www.un.org/millenniumgoals/MDG-Page1.pdf
 -
- OECD - Organisation for Economic Co-operation and Development
 - Go to www.oecd.org and click on statistics
- PAHO Regional core health data
 - Go to www.paho.org and click on Health Data