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Helping You Make Informed Decisions

Data Sources – Outline

Definitions and Data Sources:

- Census
- Sample survey
- Administrative data
- Other sources
- Online data sources
- Advantages
- Limitations
- "Bad" data





Definition: Census

Census –

"the total process of collecting, compiling, evaluating, analyzing, and publishing or otherwise disseminating demographic, economic, and social data pertaining, at a specified time, to all persons in a country or in a well-delimited part of the country." Source: United Nations, 1992

In other words, a complete count of the people and houses in a given area for a specific point in time.

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Features of a Census

The United Nations lists **four** essential features of a census:

- 1. Universality
- 2. Individual enumeration
- 3. Simultaneity
- 4. Defined periodicity





Data Collected in a Census

General Demographic

- Age
- Sex
- Relation to household head
- Marital status
- Citizenship
- Ethnicity





Data Collected in a Census, cont.

Fertility and Mortality

- Children ever born
- Children living

Geographic Location

- Place of usual residence
- Place of residence at some specified time in the past





Data Collected in a Census, cont.

Education

- School attendance
- Educational attainment

Labor Force

- Activity status
- Occupation
- Industry





Data Collected in a Census, cont.

Housing and Human Settlement

- Type of building
- Construction material
- Year of construction
- Location of living quarters
- Tenure (rent, own, lease)
- Plumbing



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Census – Advantages and Limitations

Advantages –

- Representative of entire country
- Universal gives detailed data at very small geographic levels
- Wide range of topics covered

Limitations –

- Very expensive
- Long time needed for preparation
- Need a large well trained staff



Census – Limitations, cont.



Limitations –

- Current only every 5 or 10 years
- Range of topics wide, but not detailed
- Hard to find' populations may not be enumerated completely
- Takes time for data processing
- Often takes years for data to be ready for dissemination





Definition: Sample Survey

Sample Survey –

Sampling techniques are used to select a small proportion of the population that is believed to be representative of the population at large. A survey is then conducted using this sample population to gain estimates for the total population.

Note: the size of the sample will determine if these data are representative of smaller geographic areas.





Sample Survey – Advantages

Advantages –

- Provide current information; data often available within months
- Preparation and processing time is less than for census
- Smaller trained staff than for a census
- More detail on a particular topic
- Less expensive than census





Sample Survey – Limitations

Limitations –

- Sample size determines if results are generalizable to entire population
- Data on small sub-populations may not be reliable
- Information on small geographic areas may not be available
- Limited number of topics covered





Definition: Administrative Data

Administrative data –

Collected by a variety of organizations, such as governments, hospitals, and schools.

Types of administrative data –

- Vital events (births, deaths, marriages)
- Education (enrollment, schools, teachers)
- Health (hospitals, medical staff)
- Employment (employees, enterprises)
- Geographic location (voting registration)

Administrative Data – Advantages and Limitations

Advantages –

- Cover the entire population
- Used to analyze changes and trends
- Strong geographic detail
- Very timely

Limitations –

- Incomplete registration
- Limited content



Other Data Sources

- Demographic surveillance sites
 - Data collected for the entire population in study site
 - Can provide very detailed information of surveillance population
 - Not typically representative to national population
- Business organizations (e.g., organizations of women business owners)
- Other sources.....

Online Data Sources

On-line data sources are becoming more and more useful

International date sites

- UN sites (UNECE, UNDP, ILO, WHO, UNSD, UNESCAP, UNIFEM, INSTRAW)
- U.S. Census Bureau
- World Bank
- USAID
- Asian Development Bank

Asia-Pacific Economic Cooperation



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Bad Data – how do we know them?

Questions to ask oneself:

- 1. Who collected the data?
- 2. How was the data collected?
- 3. How large is the sample and is the sample nationally representative?
- 4. Is the wording of the questions clear and easy to understand?
- 5. Is there incentive for respondents to lie?





Checks on data



Analysts can perform certain checks on published (electronic and printed) data:

- Check for consistency across tables in totals and subtotals
- See that sample size is consistent across variables, to check for missing data
- Look for consistency in data "stories"
- Use professional judgment to see if data makes sense in its context







- When beginning to work on gender statistics check for data that are already available
- Sometimes data are collected but not published or not published disaggregated by sex
- Request that data be disseminated in a way that is useful to you



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