

COMBINING HBS AND LFS DATA FOR EDUCATION LEVEL ESTIMATION

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The last Ukrainian Census was conducted in 2001, thus important information about social and demographic characteristics of population and households is only available in data collected in sample surveys. Two state sample surveys which are provided by the Ukrainian Statistical Service are the main information sources about population condition.

The Household Budget Survey (HBS) and the Labour Force Survey (LFS) focus on different topics but are harmonized and have a number of core questions in common. We consider these aspects and their influence on the possibility of combining HBS and LFS data.

Data matching procedures are used to produce the combined dataset with social and demographic indicators: sex, age, education level, social status, household structure and so on. A simple method of weighting is not effective for combined data, so we had to consider more efficient methods such as calibration.

The calibration model includes distributions of: (1) households by regions and types of area; (2) households with children by regions; (3) population by regions and types of area; (4) population by gender, age groups and region.

The estimates of education level obtained from the combined dataset have quite high accuracy, not only at the national level but for different subgroups. These results will be presented and discussed during the presentation.

To use the statistical matching methods for HBS and LFS allows for: (1) a significant increase of sample survey data quality; (2) the possibility to obtain reliably estimates of education level at the subnational and regional levels; (3) the coordination of sample survey results with external sources; (4) comparability of data.

References

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