Selective editing approach: an application

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Abstract

The Household Budget Survey (HBS) 2008/2009 realized by the Brazilian Institute of Geography and Statistics (IBGE), investigated households in urban and rural areas throughout Brazil, from May 2008 to May 2009. One of the main objectives of the survey is to measure the pattern of consumption, expenditure, income and partial assets variation of families. In addition to information regarding the budget structure, other characteristics of households and of their inhabitants are collected, making the potential use of the survey results quite broad. When we deal with variables related to income and expenditure, it is not an uncommon occurrence of cases where the declared income is not commensurate with the expense, or, with the characteristics of the household. Due to the fact that Household Budget Survey is a sample survey, to make inferences with good precision, it is necessary a preliminary analysis of data collected in order to detect the possible presence of outliers, so that they undergo treatment later. In this paper, a method of selective editing was applied to identify outliers and influential observations in the Household Budget Survey (HBS 2008/2009) through the use of the following variables, the monthly household income and the annual household expenditure.

Keywords: consumption, expenditure, household budget survey.