

Ratio Estimation in Survey Sampling When Some Observations Are Missing

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Abstract

In this paper, several estimators for ratio of population means are proposed in the presence of missing of some observations. Properties of relative biases as well as relative mean square errors of these estimators are studied, and efficiency is also studied for the comparisons of superiority among them. Further, some distribution of random incompleteness is also considered.

Keywords: Relative Bias, Relative Mean Squared Error, Simple Random Sampling without Replacement, Transformed Auxiliary Variable.