CALIBRATION RATIO TYPE ESTIMATOR OF FINITE POPULATION MEAN FOR STRATIFIED RANDOM SAMPLING

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Abstract: This paper suggests a calibration ratio type estimator of the population mean in case of the stratified random sampling using a logarithmic mean as a calibration constraint. The result so obtained has been extended in case of stratified double sampling. The simulation study has also supported the performance of the suggested estimators over the existing estimators given by Singh et al. (1998) and Clement (2015) on the basis of two artificial data sets.

Key words: Auxiliary information, Calibration estimation, Ratio estimator, Stratified random sampling, Stratified double sampling.

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