



Ratio estimators of population mean using auxiliary information in median ranked set sampling

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Abstract

In this study we have proposed some ratio estimators in median ranked set sampling design. We have derived mean square error (MSE) formula of proposed estimators. We have compared our estimators with the classical ratio estimator in simple random sampling. Also to see the performance of our proposed estimators we have conducted a simulation study. We have found that proposed estimators are highly efficient than existing estimator in the literature.

Keywords: ratio estimator; median ranked set sampling; efficiency; mean square error.