



An Improved Class of Ratio-Product Estimators of Population Mean in Systematic Sampling

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Abstract

This article describes the problem of estimating population mean in systematic sampling using information on an auxiliary variable. An improved class of estimators has been proposed whose classical ratio estimator proposed by Swain (1964) and product estimator, proposed by Shukla (1971) are the particular cases. Mean square error of the proposed class of estimators has been derived upto first order of approximation and compared with the mean square errors of the usual estimators. The results have been verified using empirical study.