

Efficiency of Double Sampling for Stratification Compared to Simple Random Sampling

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Abstract

In this paper it is discussed that whether the reduction in variance when using a double sampling for stratification instead of simple random sampling would be worth the extra expenditure on the preliminary sample. Also if the total cost is fixed then under what conditions double sampling would lead to higher precision than simple random sampling.

Key words: simple random sampling, stratified random sampling, strata, double sampling, two phase sampling, precision.