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**On Three Methods of Estimation In Two-Stage Sampling Using
Auxiliary Information**

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Abstract

This paper discusses three different estimation methodologies on gathering auxiliary information available at different stages of a survey under a two-stage sampling set-up. In order to make a comparative study of the discussed methods, we compare performances of three different classes of estimators based on these methods available in the literature.

Keywords: *Asymptotic variance, auxiliary variable, two-stage sampling*