

Abstract

This dissertation aims to develop such estimators which are efficient from other well-known estimators and these developed estimators produced the family of estimators. The developed estimators are based on SRSS (using single and two ancillary variables) and SDRSS. To check the efficiency of the derived estimators in SRSS, the derived estimator is compared with the other existing estimators through mean square error, where MSEs are derived up till first order term. From numerical and mathematical comparison the developed estimators of this thesis are better than the compared estimators.