



A Case Study

Efficacy of small area estimation against large area estimation-A case of wheat crop production

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ABSTRACT : Small areas estimation methods deals with the techniques for generating estimate for "small" areas based on the estimates produced for "larger" areas where the sample size is large enough to get precise estimates. The present study aims to know the efficacy of small area estimation (SAE) over large area estimation (LAE) in wheat production at Dharwad and Bagalkot districts of North Karnataka. The study revealed that the estimates based on $Y_q^{(1)}$ were less precise than that of Y_q as $a > 1$. However, the estimates based on $Y_q^{(1)}$ and $Y_q^{(2)}$ were found to be very closed to wheat yield estimates as compared to that of Y_q .

KEY WORDS : Small area estimation, Large area estimation, wheat crop production

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