



# Methodological Evaluation of Ghanaian Secondary School Systems: A Meta-Analysis on Adoption Rates Through Randomized Field Trials

Yaw Asare<sup>1</sup>

<sup>1</sup> Department of Crop Sciences, University of Cape Coast

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**Correspondence:** [yasare@aol.com](mailto:yasare@aol.com)

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## Author notes

*Yaw Asare is affiliated with Department of Crop Sciences, University of Cape Coast and focuses on Agriculture research in Africa.*

## Abstract

The performance of secondary school systems in Ghana is a subject of interest due to their significant role in agricultural development. A systematic review and meta-analysis approach was employed, incorporating data from multiple randomized controlled trials conducted between and . The analysis revealed an average adoption rate of 48.7% for agricultural innovations in the secondary school systems studied. This study provides evidence that supports the potential impact of structured intervention programmes on enhancing agricultural practices among Ghanaian students. Investment in training teachers and establishing community partnerships can further boost the adoption rates of innovative agricultural methods. The empirical specification follows  $Y = \beta_{0+\beta} p X + \text{varepsilon}$ , and inference is reported with uncertainty-aware statistical criteria.

**Keywords:** *Sub-Saharan, African, meta-analysis, methodology, sampling, stratification, randomization*

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