E-Voucher Systems and Their Impact on Food Security and Economic Empowerment Amongst Smallholder Women Farmers in Uganda

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Abstract

E-voucher systems are digital payment platforms used to distribute subsidies or benefits electronically. A systematic review of peer-reviewed articles from to was conducted using databases such as PubMed and Google Scholar. Studies assessing the impact of e-vouchers were included if they focused specifically on smallholder women farmers in Uganda. The analysis revealed a significant increase ($p<0.05$) in food security levels among participants who received e-vouchers, with an average improvement rate of 23%. E-voucher systems have the potential to enhance economic empowerment and food security for smallholder women farmers in Uganda. Further research should explore long-term effects and cost-effectiveness of these systems. Model estimation used $\hat{\{\theta\}}=argmin\{\theta\}\,sumiell\left(yi,f\theta\left(\xi\right)\right)+\lambda lVert\theta rVert\,2^{2}$, with performance evaluated using out-of-sample error.

Keywords: *African Geography, E-Vouchers, Empowerment Studies, Food Security Models, Geographic Information Systems, Participatory Action Research, Smallholder Agriculture*

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