



Labour Reallocation and Gendered Time-Use in the Office du Niger

A Scoping Review of Mechanised Rice Harvester Impacts

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ABSTRACT

Background: The Office du Niger is a pivotal irrigated rice production zone in Mali. The recent introduction of mechanised rice harvesters is hypothesised to significantly alter labour dynamics and gendered divisions of agricultural work, yet a systematic mapping of the evidence is lacking.

Purpose and objectives: This scoping review aims to systematically map and synthesise existing evidence on how mechanised rice harvesting reallocates labour and affects gendered time-use patterns within smallholder households in the region.

Keywords: *Labour reallocation, gendered time-use, agricultural mechanisation, Sahel, scoping review, rice production, West Africa*

Article Highlights

- Mechanisation displaces manual harvest labour predominantly done by men
- Women's post-harvest work intensifies following mechanised harvesting
- Significant gap exists in quantitative gender-disaggregated time-use studies
- Evidence base is fragmented with high study heterogeneity

Methodological Note

Analysis used linear mixed-effects modelling: $Y_{ij} = \beta_0 + \beta_1 X_{ij} + u_j + \varepsilon_{ij}$, where Y_{ij} is labour time for task i in household j , X_{ij} is mechanisation indicator, and u_j are household random effects.

This review maps existing evidence while identifying critical gaps in understanding mechanisation's gendered impacts.

ABSTRACT-ONLY PUBLICATION

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