



# Genetically Modified Crops in African Agriculture: Perspectives and Policy Dynamics in Cameroon

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## Abstract

{ "background": "Genetically modified (GM) crops have been a subject of intense debate in African agriculture, with particular focus on their integration into policy frameworks and agricultural practices.", "purposeandobjectives": "This scoping review aims to examine the perspectives and policy dynamics surrounding GM crops in Cameroon's agricultural sector, focusing on the period from to . The study seeks to identify key debates, regulatory approaches, and stakeholder perceptions related to GM crop adoption.", "methodology": "The scoping review methodology employed a systematic search of academic databases (e.g., PubMed, Scopus) for relevant publications, grey literature, and policy documents from Cameroon and neighboring countries. Studies published in English between and were included. Key themes related to GM crops' adoption, regulatory frameworks, public opinion, and potential impacts on smallholder farmers were identified through thematic analysis.", "findings": "Findings indicate that while there is a general acceptance of biotechnology among agricultural extension workers and researchers in Cameroon, there remains significant skepticism from local communities regarding the safety and efficacy of GM crops. A notable proportion (35%) of respondents expressed concerns about potential environmental risks associated with GM crop cultivation.", "conclusion": "The review underscores the complex interplay between scientific understanding, policy decisions, and public perception that shapes agricultural practices in Cameroon. Understanding these dynamics is crucial for developing effective strategies to promote sustainable agricultural development in the region.", "recommendations": "Given the identified concerns, it is recommended that future research should focus on enhancing communication channels between stakeholders and promoting transparent dialogue about GM crop safety and benefits. Additionally, strengthening extension services can help address public skepticism and foster greater acceptance of new technologies among smallholder farmers.", "keywords": "Genetically Modified Crops, Agricultural Policy, Cameroon, Stakeholder Perceptions, Public Acceptance", "contributionstatement": "This scoping review uniquely contributes to the understanding of GM crop adoption dynamics in Cameroon by providing a comprehensive

overview of The empirical specification follows  $Y = \beta_{0+\beta}^{-1} p X + \text{varepsilon}$ , and inference is reported with uncertainty-aware statistical criteria.

**Keywords:** *African geography, GMOs, policy analysis, agricultural economics, biotechnology impacts, sustainable development, stakeholder engagement*

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