



**ADOPTION OF ORGANIC FARMING PRACTICES: A COMPREHENSIVE REVIEW OF
TRENDS, DETERMINANTS, AND CHALLENGES**

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ADOPTION OF ORGANIC FARMING PRACTICES: A COMPREHENSIVE REVIEW OF TRENDS, DETERMINANTS, AND CHALLENGES

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ABSTRACT

Organic farming is a vital pathway to sustainable agriculture, addressing environmental, economic, and social challenges. This review synthesizes global trends, determinants, and barriers to adoption, analyzing data from international organizations, peer-reviewed studies, and policy frameworks. Despite significant growth—global organic farmland reached 74.9 million hectares (1.6% of total farmland) in 2021, with a market value of \$187 billion (projected 12.5% annual growth)—adoption remains uneven. While Europe leads (e.g., EU’s 25% organic farmland target by 2030), developing regions like Bangladesh lag (0.1% adoption) due to economic constraints, weak institutions, and infrastructural gaps. Key drivers include economic incentives (price premiums, long-term profitability), social networks (peer learning), policy support (subsidies, certification), environmental benefits (soil health, biodiversity), and technological innovations (precision tools, blockchain). However, challenges persist: high transition costs, 3-year financial risks for smallholders, fragmented supply chains, certification complexities, and volatile markets. The study highlights the need for equitable policies—simplified certification, targeted subsidies, and investment in grassroots innovations. Future efforts must integrate gender inclusivity, climate resilience, and digital solutions (e.g., mobile apps, blockchain for traceability) to bridge adoption gaps in resource-limited contexts. Collaborative action among governments, NGOs, and the private sector is essential to align organic farming with the UN SDGs, fostering food systems that balance productivity, ecological stewardship, and socio-economic equity. By addressing systemic barriers and prioritizing marginalized voices, organic farming can transition from a niche practice to a global sustainability cornerstone, ensuring resilience in an era of escalating environmental and demographic pressures.



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