



Adoption Rates and Sustainability of Sustainable Agriculture Practices Among Nigerian Farmers: A Longitudinal Comparative Study

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Abstract

Nigerian farmers face challenges in adopting sustainable agricultural practices (SAPs), which can lead to environmental degradation and economic instability. A longitudinal study was conducted using structured interviews and field observations across four regions in Nigeria. Data were analysed using mixed methods to identify trends and challenges. Findings indicated that while the initial adoption rate of SAPs was low (30%), there was a significant increase over time, with farmers showing sustained interest in practices like crop rotation and intercropping. Despite initial skepticism, Nigerian farmers demonstrated resilience and adaptability, particularly when provided with technical support and community engagement initiatives. Sustainable agricultural extension programmes should prioritise continuous education and technological assistance to enhance long-term sustainability of SAPs among Nigerian farmers. Agriculture, Sustainability, Adoption Rates, Longitudinal Study, Nigeria

Keywords: *African geography, adoption rates, farmer behaviour, sustainability assessment, qualitative methods, longitudinal analysis, rural development*

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