**Implication of agricultural land-use and management practices on food insecurity among rural households in south-west states, Nigeria.**

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**Abstract**

The challenge of food insecurity can be addressed through effective transformation of agricultural practices, as many literatures recognize agricultural food system as one of important measures in promoting food security. This study analyzed the effect of agricultural land-use and its management practices on food insecurity among rural households in southwest states, Nigeria. The study designed a multistage sampling for the selection of 340 rural household heads and cross-section data were collected during 2022 crop production season through structured questionnaire. Descriptive statistics, food security line and probit regression model were employed as analytical techniques. The major findings revealed that 67% of farm household heads were male and the average age of 47.11years signified that most of them are still youths. Exactly 81% of the household heads were married, the mean household size was about 6 persons, most of them acquired secondary education and experienced in farming. The farm size cultivated was 2.63ha on the average. Total monthly expenditure for all farm households was N322424.9 while their food security index was 0.479412. The result also showed that more than average (53%) of household heads is food insecure while the rest (47%) are food secure. The study further identified that the prevalent land management practices were crop rotation, organic manure, minimum tillage and fertilizer application while arable cropping system dominated among food insecure land users, and the majority of food secure land users specialized on the cash cropping practice. The analysis of probit model found that on-farm income, arable cropping, cash cropping system, mixed farming, fertilizer application and land management measure were significantly influenced food insecurity. The study therefore suggests arable cropping, cash cropping and mixed farming as essential agricultural land-use that driven food insecurity. Also, fertilizer application and other land management measures like crop rotation, organic manure, and minimum tillage are recommended for improving agricultural food production. Policy intervention therefore should enlighten the agricultural stakeholders on the huge contributions of agricultural land-use patterns and its sustainable management towards food insecurity reduction.

**Keywords:** agricultural land-use, land management practices, food insecurity, household heads, southwest states, Nigeria

**Recent Publications:** Minimum 3 publications to be included (Not mandatory)

**Ganiyu, M. O.,** Oladeebo, J. O., Adesiyan O. I., Oyebamji, I. T. and Ajala, A. K. (2024). Analysis of climate variation adaptation measures and land-use intensification among maize-based farmers in Oyo State, Nigeria. *International Journal of Agricultural Economics and Rural Development* - 14 (1): 45-57 **NIGERIA**

Raufu, M.O, **Ganiyu, M.O+,** Agbogunleri, O.W, Adeyanju, A.J, Miftaudeen-Rauf, A.A, Olarinre, A.Aand Ogunwole-Olapade, F (2024). Multivariate Regression Analysis of Inorganic Fertilizers Use Intensity among Small Scale Cereal Crop Farmers in Ogbomoso ADP Zone of Oyo State, Nigeria. *International Journal of Research and Innovation in Social Science* (8)9: 432-438 <https://www.rsisinternational.org/journals/ijriss/> **USA**

**Ganiyu, M.O,** Salman, K.K, Adeleke, O.A, Akintayo, T.KTojola, S.S and Adeyanju, A.J (2024).Land Access and Tenure Impacts on Technical Efficiency of Rice Farmers in Ondo State, Nigeria. *Trends in Agricultural Sciences,* 3 (2): 202-210, 2024 <https://doi.org/10.17311/tas.2023.394.410> **PAKISTAN**

**Ganiyu, M. O.,** Raufu, M. O., Agbogunleri, O.W, Miftaudeen-Rauf, A.A andOrisakwe, E. U, (2024). Determinants of Farm Households’ Willingness to Adopt Solar Energy Resource in Rural Oyo State, Nigeria. *International Journal of Research and Innovation in Social Science* (8)9: 197-207 <https://www.rsisinternational.org/journals/ijriss/> **USA**

**Ganiyu, M.O** and Akintayo, T.K, (2025). Drivers of Land Share and Allocation in a Multiple Crops Farming in Southwest, Nigeria *Research Journal of Botany, 20 (1): 132-142* [**https://rjb.scione.com/cms/fulltext.php?id=70**](https://rjb.scione.com/cms/fulltext.php?id=70) **IF = 10 (SJR) UNITED EMIRATE**

**Biography of Author:** I am Ganiyu Muibat Omolara and I hold PhD in Agricultural Economics from Faculty of Agricultural Sciences Ladoke Akintola University of Technology, Ogbomoso, Nigeria. I had over 10 years of experience in teaching and research at both undergraduate and postgraduate levels. A number of undergraduate students had completed their research works under my supervision, while currently I have three postgraduate students whose projects are on-going. My area of research interest focused on Agricultural and Resource Economics which investigates how the environment, natural resources and agricultural lands are managed and the role of policy in improving their management. I have published 30 papers comprising 20 peer reviewed journal articles, 5 conference proceedings. About 70% of my articles were published in foreign scientific journals. I have a significant number of articles in my area of specialization. I am passionate about going for postdoctoral research and training whenever I get opportunity Abroad.

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