



RESEARCH ARTICLE

ECONOMIC EFFICIENCY OF RICE PRODUCTION AMONG SMALLSCALE WOMEN FARMERS IN FEDERAL CAPITAL TERRITORY, NIGERIA

Olugbenga Ometayo, Alabi^{a,*}, Jeremiah Samuel, Aluwong^b, Paul Akintuwami, Attah^c, Herbert Ibrahim, Dirisu^d, Fadilat Mohammed, Yusuf^e, Luqman Abiola, Popoola^f, Levi Friday, Agada^g, Ojoh Ezekiel, Haruna^h

^aDepartment of Agricultural Economics, Faculty of Agriculture, University of Abuja, FMS 117 Gwagwalada-Abuja, Federal Capital Territory, Nigeria.

^bDepartment of Agricultural Extension and Management, School of Agricultural Technology, Nuhu Bamalli Polytechnic, Zaria, Samaru Katof Campus, Kaduna State, Nigeria.

^cDepartment of Agricultural Economics and Extension, Faculty of Agriculture, Federal University of Lafia, FMS 146 Lafia, Nasarawa State, Nigeria.

^dManufacturers Association of Nigeria, Adamawa Plaza, Central Business District, Abuja, Nigeria.

^eNational Space Research and Development Agency (NASRDA), Obasanjo Space Center, Umaru Musa Yar'Adua Express Way, Abuja, Nigeria.

^fNational Biotechnology Development Agency, Umar Musa Yar'Adua Express Way, Abuja, Nigeria.

^gDepartment of Agricultural Economics and Extension, Faculty of Agriculture, Prince Abubakar Audu University, Ayegba, Kogi State, Nigeria.

^hCorresponding Author Email: ometayoolabi@yahoo.com

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ABSTRACT

This study evaluated economic efficiency of rice production among smallscale women farmers in Federal Capital Territory, Nigeria. A multi-stage sampling technique was used to select 100 smallscale women rice farmers. Primary data were collected with the aid of well-designed and well-structured questionnaire. Data were analyzed using descriptive statistics, farm budgeting technique, financial analysis, Stochastic production frontier efficiency model, and Tobit dichotomous regression model. The results show that 88% of women rice farmers were less than 50 years of age. The mean age was 44 years. Averagely, they are smallscale farmers with 1.31 hectares of farm land. The labour input in mandays constitutes the highest percentage of about 50.8% of total costs of activities involved in rice production. The net farm income and gross margin ratio was estimated at 416,800 Naira and 0.63 respectively. This shows that rice production by women farmers was profitable and worthwhile. The mean allocative, economic, technical efficiency scores were 50.3%, 50.8%, and 51.20% leaving the efficiency gaps of 49.7%, 49.2%, and 48.8% for improvement respectively. The significant factors influencing economic efficiency of rice production among women farmers include: - farm size ($P < 0.01$), labour input ($P < 0.05$), household size ($P < 0.05$), seed input ($P < 0.01$), fertilizer input ($P < 0.05$), chemical input ($P < 0.05$), farm experience ($P < 0.05$), and access to credit ($P < 0.05$). The major constraints encountered by women rice farmers include: - inadequate credit facilities (1st), high cost of labour (2nd), high cost of fertilizers (3rd) and high cost of herbicides (4th). The study recommended that farm inputs such as improved seeds, fertilizer input, chemical input and herbicides should be made available to women farmers at affordable prices. Credit facilities devoid of rigorous administrative procedures at low interest rate should be made available to women farmers.

KEYWORDS

Economic Efficiency, Rice Production, Tobit Regression Model, Smallscale Women Farmers, Abuja, Nigeria

1. INTRODUCTION

Rice (*Oryza sativa* L.) is the most valuable and essential cereal crops cultivated and consumed globally by a large mass of the world population (Ojo et al., 2020, and Bittaye et al., 2014). Rice is a staple food in several African countries including Nigeria and constitutes a large portion of the diet on a regular basis (Lu et al., 2018). Rice is cultivated or grown in mostly all agro-ecological zones in Nigeria but by smallholder farmers or on a relatively smallscale. Rice is grown under varieties of ecology namely: tropical climatic conditions, subtropical climatic conditions, and temperate conditions with the weather varying from the arid and semi-arid regions as well as humid to semi-humid conditions (Rao et al., 2017). Rice production systems therefore, include irrigated lowland, rain-fed

upland, rain-fed lowland, irrigated upland, deep water, and floating systems. All these systems are commonly practiced in the South of Asia, East of Asia, and Africa (Rao et al., 2017). Nigeria is the leading consumer of rice in the continents and one of the largest producers of rice in Africa. Nigeria is also the largest rice importer in the world (Ojo et al., 2020). Nigeria still ranks third with Iraq (after Philippines and China) in the group of major rice importing countries in the world (Ojo et al., 2020). Rice is an important food security crop, the importance of rice made the United Nations designate the year 2004 as the international rice year (Rao, 2004). There have been numerous cases of development and economic growth in different communities in history as a result of the massive production of rice (Ajala & Gana, 2015). Rice is one of the most staple food commodities for billions of people around the world considering its relevance in many

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