

## Analysis of Productivity and Poverty Status among Users of Improved Sorghum Varieties in Kano State, Nigeria

**Authors :** Temitope Adefunsho Olatoye, Julius Olabode Elegu

**Abstract :** Raising agricultural productivity is an important policy goal for governments and development agencies, and this is central to growth, income distribution, improved food security, and poverty alleviation among practitioners. This study analyzed the productivity and poverty status among users of improved sorghum varieties in Kano State, Nigeria. A multistage sampling technique was adopted in the selection of 131 sorghum farmers who were users of improved sorghum varieties. Data collected were analyzed using both descriptive (frequency distribution and percentage) and inferential (productivity index and FGT model) statistics. The result of the socioeconomic characteristics of the sorghum farmers showed a mean age of 40 years, with about 93.13% of the sorghum farmers being male. Also, as indicated by the result, the majority (82.44%) of the farmers were married, with most of them having qur'anic education with a mean farm size of 3.6 ha, as reported in the study area. Furthermore, the result showed that the mean farming experience of the sorghum farmers in the study area was 19 years, with an average monthly income of about ₦48,794, as reported in the study area. The result of the productivity index showed a ratio of 192,977kg/ha, while the result of poverty status shows that 62.88% were in the non-poor category, 21.21% were poor, and 15.91% were very poor, respectively. The result also showed that the incidence of poverty for sorghum farmers was 16%, indicating that the incidence of poverty was prevalent in the study area. Based on the findings of this study, it was therefore recommended that seed companies should facilitate the spread of improved sorghum varieties as it has an impact on the productivity and poverty status of sorghum farmers in the study area.

**Keywords :** Foster Greer Thorbecke model, improved sorghum varieties, productivity, poverty status

**Conference Title :** ICAAE 2023 : International Conference on Agribusiness and Agricultural Economics

**Conference Location :** Kyoto, Japan

**Conference Dates :** November 20-21, 2023