

Modeling Cassava production in Nigeria Using Box- Jenkins Approach

Oludare S. Ariyo*

National Horticultural Research Institutes, Ibadan Nigeria ariyodare@gmail.com

Samuel, O. Akweagbo

Department of Statistics, Federal University of Agriculture, Abeokuta Nigeria

akwagboson@unaab.edu.ng

The Increasing demand for Cassava in Nigeria has been a major concern to the government, Farmers and other stakeholders. The Transformation agenda in Agriculture and inclusion of Cassava in Bread to substitutes for Wheat have triggered the government to implement strategies to boost cassava production. To fulfill this requirement, there is a need to monitor and forecast trends of cassava production in The Country. In this study, Box-Jenkins approach to model Cassava production using time series data from 1960 to 2011. The analysis revealed that ARIMA (2,1,0) was the best model for forecasting cassava production. Ten years forecast with the model shows an increasing trend in the production, the forecast value at 2020 (170 Million Metric Tons) was not good enough for local and international demand

Key Words: Transformation Agenda, Forecast