MODELING OF INVENTORIES AND EXPENDITURE RICE IN EAST JAVA BULOG

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Abstract

Indonesia is one of the country's largest rice producer and consumer in the world. It requires a Perum Bulog Indonesia has a duty to regulate the availability of rice in the community. Total inventories and expenditures of different rice every year or make BULOG require a period of anticipation to anticipate when to several years later the number of rice supply is less than the amount of expenditure so that the resulting interruption in the supply of rice of rice to the people of East Java. Anticipation was in the form of a prediction analysis to predict the amount of rice supply and expenditure in the next few years. Forecasting analysis is used forecasting analysis using Box-Jenkins ARIMA method. Using data from month supply of rice in January 1994 to December 2008 obtained the best forecasting model is ARIMA (2,0,1) with the addition of seven dummy variables while the best model to expenditure data of rice in East Java BULOG is ARIMA (1,0,0). The result of forecasting the amount of inventory and expenses of rice in East Java BULOG to 24-month period of office in January 2009 to December 2010 showed that the total supply of rice in East Java BULOG for that period are still adequate to meet the total expenditure on BULOG bers for that period is the period Janurai months of 2009 up to December 2010. This is because the total supply of rice in Janurai 2009 to December 2010 more than the total expenditure of rice in East Java BULOG.

Keywords: BULOG, total supply and total spending of rice, ARIMA
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