FORECASTING AND SCHEDULING OF PRODUCTION OF FRESH FOODS TO MAXIMIZE THE AMOUNT OF PRODUCTION IN HARVEST AGRIBUSINESS COMPANIES

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ABSTRACT

Production planning is very important for companies because usually they are often overwhelmed by consumer demand which is getting higher from week to week because the available land is not well utilized. There is a weekly increase of demand. The method used is the preparation of the MPS (Master Prouction Schedule) as one of the MRP components using the Moving Average, Exponential Smoothing and ARIMA forecasting models. The forecasting technique chosen is the one with the smallest MAPE value, namely ARIMA for all lettuce and cherry tomato vegetable products. Forecast results for all products tend to fluctuate from week to week. Based on the MRP value that it is good for production, orders to partners are made every week, except for cherry tomatoes that do not place orders and raw material planning is carried out an average of 2-4 weeks, but for manure and seeds only are stocked every 3 month.

Keywords: forecasting, MPS, MRP, ARIMA