

ABSTRACT

Production is a vital activity in an industry. So far, the prediction of Bakpia production at CV. Bakpia Pathok "Terbit" always relies on estimates from the operations manager only. With this, there are many deficiencies that result in losses for the company. Production prediction is carried out aimed at obtaining the number of bakpia that will be produced. The purpose of this study is to provide accurate production prediction results by comparing the two fuzzy methods in the case of bakpia production and determining which method is more effective for the production prediction process. Prediction is done by using two variables, namely supply and demand, and one production variable to compare the two methods, and using four fuzzy rules which are then used in each of the inferences. Determination of the prediction of bakpia production using the Tsukamoto Method and Sugeno Method. These two methods are used to determine the prediction results of bakpia production. The results of this prediction can be concluded that the results of the Sugeno method are more accurate because the error percentage is smaller with a percentage value of 10.8% while the Tsukamoto method has a percentage error with a value of 32.43%.

Keywords : Prediction, Production, Fuzzy, Tsukamoto Method, Sugeno Method, Supply, Demand.