

Sistem Peramalan Persediaan Telur Ayam Menggunakan *Fuzzy Tsukamoto*

(Chicken Egg Inventory Forecasting System Using Fuzzy Tsukamoto)

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ABSTRACT

Legi Jaya Farm is one of the laying hens industry located in Wirolegi, Summersari sub-district, Jember district which focuses on the production of chicken eggs. The distribution of eggs is classified as fluctuating sales so that Legi Jaya Farm has difficulty in predicting the supply of chicken eggs for the next period because Legi Jaya Farm does not know how much demand for chicken eggs is needed by customers and the production of chicken eggs with certainty. Therefore Legi Jaya Farm should not experience a shortage or excess of chicken eggs. Legi Jaya Farm really needs a system that can predict the supply of chicken eggs in accordance with production predictions and predictions of egg demand from customers the next day to find out the prediction of chicken egg supplies in the next period. In this case, the researcher will make a forecasting system for the supply of chicken eggs using the Fuzzy Tsukamoto Method. Based on the results of forecasting performed using the fuzzy Tsukamoto method, the test results using MAPE showed the lowest percentage value was 0.00171% and the highest percentage value was 2.56296%. Meanwhile, the average value of the MAPE calculation is 42.6773. UAT test results with a percentage of 84.4%, which means it is good if the UAT test value is between 81% to 100%.

Key words : *Forecasting, Fuzzy Tsukamoto*