

ABSTRACT

The background of the research is the price of cabai rawit as one of the important food ingredients for the Indonesian people which often fluctuates. The imbalance between demand and supply of cabai rawit causes inflation. The type of data used in this study is secondary data obtained through the BPS website in the form of monthly data on the average price of cabai rawit in Singkawang City with a time span starting from January 2016 to December 2023 with a total of 96 data taken. Data analysis in this study was carried out with Microsoft Excel. The data analysis technique used is the Fuzzy Time Series (FTS) model forecasting technique, namely the Chen, Lee and Tsauro models. Based on the results of data forecasting using the FTS model, the MAPE value in the Chen model was 9.69%, the MAPE value in the Lee model was 8.89% and the MAPE value in the Tsauro model was 6.66%. The forecasting data pattern using the Fuzzy Time Series (FTS) with the Tsauro model is closer to the actual data value than the Chen and Lee models. Thus, it can be concluded that Fuzzy Time Series (FTS) with the Tsauro model is the best model when compared to the Chen and Lee models so that the next forecast value using the Tsauro model is Rp. 41.690.

Keywords : *Forecasting, Fuzzy Time Series, Chili Price, Singkawang City*