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Stochastic modeling for milk production

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ABSTRACT : The present investigation was carried out to study the trends in India's milk production during the period 1990-91 to 2010-2011 based on fuzzy time series and holt-winters non-seasonal time-series models. Model performances have been carried out based on the model performance criteria such as the lower values of mean square error, variability co-efficient (δ) and correlation co-efficient (r) of the model. It was found that the holt-winters non-seasonal time-series was found suitable to study the milk production trend.

KEY WORDS : Window based Fuzzy time series, Mean square error, Variability co-efficient, Holt-Winters non-seasonal model

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