

Examining the presence of cyclical behavior in Cattle prices

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Abstract

The determination of cattle cyclic behavior in prices is significant to the cattle producers and for the consumers. This study focused on the cyclical, Seasonal, time series prices of cattle or cows was examined from 1983-2023. We used Harmonic regression model to determine the cycle pressure ranging from 5-to 25 years. Results indicated that there is a significant cyclical behavior in 12- and 25-year price cycle with MAPE (18.87 and 12.64) and Akaike Information Criterion (AIC) (5 and 4.6). The result can assist producers in making short- and long-term pricing estimates.

Keywords: - Cattle price cycle, Cyclic and seasonal length, Harmonic regression model, Time series.