

Determination of Factors Affecting the Volume of Corn Imports in Indonesia

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Abstract

This study aims to analyze the influence of corn production, international corn prices, exchange rates, and domestic consumption of corn on the volume of corn imports in Indonesia in the period 1977 to 2022. The data used was in the form of secondary data for the annual period as many as 46 observation data obtained through FAOSTAT, the Agricultural Center, the World Bank, and the Mundi Index. The analysis method used is using the Error Correction Model (ECM) which aims to analyze in the long and short term. The results of the study show that in the long term corn production, exchange rate, and domestic consumption of corn do not have a significant effect on the volume of corn imports in Indonesia, and only the international price of corn has a significant effect on the volume of corn imports in Indonesia. On the other hand, in the short term, it shows that international corn prices, exchange rates, and domestic consumption of corn do not have a significant effect on the volume of corn imports in Indonesia, while corn production has a significant effect on the volume of corn imports in Indonesia.

Keywords: *Corn Import Volume, Corn Production, International Corn Price, Exchange Rate, Corn Domestic Consumption, Error Correction Model (ECM)*

Determinasi Faktor-Faktor Yang Mempengaruhi Volume Impor Jagung di Indonesia

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Abstrak

Penelitian ini bertujuan untuk menganalisis pengaruh produksi jagung, harga internasional jagung, nilai tukar, dan konsumsi domestik jagung terhadap volume impor jagung di Indonesia dalam periode 1977 hingga 2022. Data yang digunakan berupa data sekunder periode tahunan sebanyak 46 data observasi yang diperoleh melalui FAOSTAT, Pusdatin Pertanian, *World Bank*, dan Index Mundi. Metode analisis yang digunakan ialah menggunakan *Error Correction Model* (ECM) yang bertujuan untuk menganalisis dalam jangka panjang dan jangka pendek. Hasil dari penelitian menunjukkan bahwa dalam jangka panjang produksi jagung, nilai tukar, dan konsumsi domestik jagung tidak berpengaruh signifikan terhadap volume impor jagung di Indonesia, dan hanya harga internasional jagung yang berpengaruh signifikan terhadap volume impor jagung di Indonesia. Di sisi lain, dalam jangka pendek menunjukkan jika harga internasional jagung, nilai tukar, dan konsumsi domestik jagung tidak berpengaruh signifikan terhadap volume impor jagung di Indonesia, sedangkan produksi jagung berpengaruh signifikan terhadap volume impor jagung di Indonesia.

Kata kunci: Volume Impor Jagung, Produksi Jagung, Harga Internasional Jagung, Nilai Tukar, Konsumsi Domestik Jagung, *Error Correction Model* (ECM)