

Intisari

PENGARUH TERJADINYA EL NINO DAN LA NINA TERHADAP PENAWARAN DAN NILAI TUKAR PETANI PADI DI PROVINSI JAWA TENGAH

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Penelitian ini bertujuan untuk mengestimasi pengaruh terjadinya El Nino dan La Nina terhadap penawaran dan nilai tukar petani padi. Penelitian dilakukan dengan metode deskriptif analisis menggunakan data sekunder bulanan dan empat bulanan dari tahun 1990-2010. Fungsi penawaran dalam penelitian ini dilakukan dengan analisis regresi metode ARMA (*Autoregressive Moving Average*), sedangkan fungsi nilai tukar petani padi menggunakan metode ARMA dan ARCH (*Autoregressive Conditional Heteroscedasticity*). Hasil penelitian menunjukkan bahwa variabel yang mempengaruhi penawaran adalah harga jagung, harga kedelai, harga ubikayu, harga Urea, harga TSP, upah buruh tani, masing-masing adalah harga periode sebelumnya, serta dummy La Nina. Variabel yang mempengaruhi nilai tukar petani padi adalah harga gabah kering panen, harga jagung, harga kedelai, harga beras, harga Urea, upah buruh tani dan dummy La Nina. Pada kondisi El Nino, penawaran dan nilai tukar petani padi tidak jauh berbeda dibandingkan dengan kondisi normal dan La Nina. Pada kondisi La Nina, penawaran dan nilai tukar petani padi lebih besar daripada kondisi normal dan El Nino.

Kata kunci : El Nino, La Nina, ARMA, ARCH, nilai tukar petani padi

Abstract

THE IMPACT OF EL NINO AND LA NINA ON SUPPLY AND TERM OF TRADE OF RICE FARMER IN CENTRAL JAVA PROVINCE

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This study was aimed to estimate the influence of El Nino and La Nina on supply as well as term of trade of rice farmer. It was done with descriptive analysis method using monthly and quarterly secondary data from 1990-2010. The supply function was analyzed by regression analysis of ARMA method (Autoregressive Moving Average), while term of trade of rice farmer function was analyzed by the ARMA and ARCH method (Autoregressive Conditional Heteroscedasticity). The results indicated some variables which affected the supply, which were corn prices, soybean prices, cassava prices, Urea prices, TSP prices, wages of farm laborers, each of them in lag term, and dummy of La Nina. Besides, the term of trade of rice farmer were affected by prices of unhulled rice, corn prices, soybean prices, rice prices, urea prices, wages of farm laborers and dummy of La Nina. Under El Nino, the supply and term of trade of rice farmers were not much different compared with normal and La Nina conditions. In the La Nina, supply and term of trade of rice farmers was higher compared with normal and El Nino conditions.

Keyword : El Nino, La Nina, ARMA, ARCH, term of trade of rice farmer