

**Analisis Produksi dan Produktivitas Pertanian Tanaman Padi di Indonesia
Periode Tahun 1961-2017**

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ABSTRAK

Penelitian ini menganalisis pengaruh luas lahan, benih, pupuk, tenaga kerja dan mesin pertanian terhadap produksi tanaman padi, serta menganalisis tingkat produktivitas tanaman padi di Indonesia. Data yang digunakan dalam penelitian yaitu data *time series* tahun 1961-2017. Model yang digunakan yaitu fungsi produksi Cobb Douglas dengan teknik analisis menggunakan metode *ordinary least square* dengan *Error Correction Model* untuk melihat pengaruh input faktor produksi terhadap produksi padi. Hasil analisis menunjukkan variabel lahan, benih, dan pupuk berpengaruh terhadap produksi padi. Hasil perhitungan indeks *Total Factor Productivity* (TFP) menunjukkan bahwa nilai TFP relatif rendah, sehingga kontribusi TFP relatif rendah terhadap produksi tanaman padi di Indonesia. Hal ini menunjukkan bahwa peran teknologi dalam pertanian padi di Indonesia masih relatif rendah.

Kata kunci: Produksi Tanaman Padi, Total Faktor Productivity, *Ordinary Least Square*, *Error Correction Model*

*The Analysis of Paddy Plant Production and Productivity in Indonesia Period
1961-2017*

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ABSTRAK

This research analyze the affect of land width, seed, fertilizer, labor and agricultural machine towards the production of paddy plant, and also analyze paddy plant productivity level in Indonesia. Data that is used in this research is time series data in 1961-2017. Model that is used is Cobb-Douglass production function that use ordinary least square method with Error Correction Model to see the effect of the input production factors toward the paddy plant. The result of this analysis shows that land width, seeds, and fertilizer affect the production of paddy plant. The results of the counting of Total Factor Productivity (TFP) shows that TFP value is relatively low, this means that the TFP contribution is relatively low towards the paddy plant production in Indonesia. This also shows that the role of technology in paddy plant agriculture in Indonesia is still relatively low.

Keywords: Paddy Plant Production, Total Factor Productivity, *Ordinary Least Square, Error Correction Model*