

**ABSTRACT**

**ANALYSIS OF PRODUCTION FUNCTION**  
**(Case Study in the rattan industry Tegalwangi Village Weru Sub-district**  
**Cirebon District)**

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*The purpose of this research were to find out: (a) the effect of fixed capital, working capital, labor, and level of education on the results of the production of the rattan industry partially; (b) the effect of fixed capital, working capital, labor, and level of education on output of the rattan industry simultaneously; (c) the efficiency of the production of rattan industry to fixed capital, working capital, labor and level of education; (d) the elasticity of the production of rattan industry in the village of Tegalwangi Weru sub-district Cirebon district to fixed capital, working capital, labor and level of education. The research was conducted by using primary data. The method used is the OLS method using multiple linear regression with hypothesis testing using partial test (test t) and F test. The result of this research showll that: (a) partially fixed capital, working capital, labor, and level of education have significantly positive effect on output of the rattan industry; (b) simultaneously fixed capital, working capital, labor, and level of education have significant effect on output of the rattan industry; (c) the production process is technically in an efficient condition (increasing returns to scale); (d) the elasticity of the production of rattan industry in the village of Tegalwangi Weru sub-district Cirebon district to fixed capital, working capital, labor and level of education is inelastic.*

*Keywords: Output, fixed capital, working capital, labor, and level of education.*

## **ABSTRAK**

### **ANALISIS FUNGSI PRODUKSI (Studi Kasus pada Industri Rotan di Desa Tegalwangi Kecamatan Weru Kabupaten Cirebon)**

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Penelitian ini bertujuan untuk mengetahui: (a) pengaruh dari modal tetap, modal kerja, tenaga kerja dan tingkat pendidikan terhadap hasil produksi industri rotan secara parsial; (b) pengaruh dari modal tetap, modal kerja, tenaga kerja dan tingkat pendidikan terhadap hasil produksi industri rotan secara bersama-sama; (c) efisiensi usaha rotan (d) elastisitas hasil produksi industri rotan terhadap modal tetap, modal kerja, tenaga kerja dan tingkat pendidikan di Desa Tegalwangi Kecamatan Weru Kabupaten Cirebon. Penelitian ini dilakukan dengan menggunakan data primer. Metode yang digunakan adalah metode OLS dengan menggunakan regresi linear berganda beserta uji hipotesis dengan menggunakan uji parsial (uji t) dan uji bersama-sama (uji F). Hasil penelitian menjelaskan bahwa: (a) secara parsial modal tetap, modal kerja, tenaga kerja, dan tingkat pendidikan berpengaruh positif signifikan terhadap hasil produksi industri rotan; (b) secara bersama-sama modal tetap, modal kerja, tenaga kerja, dan tingkat pendidikan berpengaruh signifikan terhadap hasil produksi industri rotan; (c) proses produksi secara teknis berada dalam kondisi yang efisien (*italik*); (d) hasil produksi rotan bersifat inelastisitas terhadap modal tetap, modal kerja, tenaga kerja dan tingkat pendidikan di Desa Tegalwangi Kecamatan Weru Kabupaten Cirebon.

Kata kunci: hasil produksi, modal tetap, modal kerja, tenaga kerja, dan tingkat pendidikan.

