

LAMPIRAN

Lampiran 1. Analisis Regresi

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	ln_tklk, ln_tkdk, ln_benih, ln_kandang, ln_fungisida, ln_insektisida, a, ln_urea, ln_lahan, ln_npk ^b		Enter

a. Dependent Variable: ln_prod

b. All requested variables entered.

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.930 ^a	.866	.833	.23564

a. Predictors: (Constant), ln_tklk, ln_tkdk, ln_benih, ln_kandang, ln_fungisida, ln_insektisida, ln_urea, ln_lahan, ln_npk

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	13.256	9	1.473	26.526	.000 ^b
	Residual	2.054	37	.056		
	Total	15.310	46			

a. Dependent Variable: ln_prod

b. Predictors: (Constant), ln_tklk, ln_tkdk, ln_benih, ln_kandang, ln_fungisida, ln_insektisida, ln_urea, ln_lahan, ln_npk

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	3.546	.449		7.893	.000
ln_lahan	.829	.078	.862	10.619	.000
ln_benih	.053	.102	.043	.517	.608
ln_urea	-.057	.081	-.074	-.703	.487
ln_npk	.013	.095	.015	.137	.892
ln_kandang	.124	.051	.186	2.419	.021
ln_fungisida	.005	.028	.011	.172	.864
ln_insektisida	.035	.038	.069	.926	.361
ln_tkdk	-.011	.053	-.014	-.215	.831
ln_tklk	.046	.056	.056	.831	.412

a. Dependent Variable: ln_prod

Uraian	Rata-rata	Harga	Koefisien Regresi (bi)	Sbi	Var bi
Produksi (Y)	1475,85	5000			
Lahan (X ₁)	3022,34	125	0,829	0,078	0,006
Pupuk Kandang (X ₅)	1835,11	700	0,124	0,051	0,002

1. Lahan

$$\begin{aligned} \text{MPPX1} &= b \cdot \frac{y}{x_1} \\ &= 0,829 \cdot \frac{1475,85}{3022,34} \\ &= 0,40 \end{aligned}$$

$$\begin{aligned} \text{NPM X1} &= \text{MPP X1} \cdot P_y \\ &= 0,40 \cdot 5000 \\ &= 2000 \end{aligned}$$

$$\begin{aligned} \frac{\text{NPM}_{x_1}}{P_{x_1}} (K) &= \frac{2000}{125} \\ &= 16 (K > 1) \end{aligned}$$

$$\begin{aligned} \text{Var K} &= \left[\frac{K}{b_i} \right]^2 \cdot \text{Var b} \\ &= \left[\frac{16}{0,829} \right]^2 \cdot 0,006 \\ &= 372,5 \cdot 0,006 \end{aligned}$$

$$\begin{aligned}
 &= 2,235 \\
 \text{T hitung} &= \left(\frac{1-K}{\sqrt{\text{Var } k}} \right) \\
 &= \left(\frac{1-16}{\sqrt{2,235}} \right) \\
 &= \frac{-15}{1,49} \\
 &= 10,06
 \end{aligned}$$

(T hitung) $10,06 > 6,657$ (T tabel) sehingga H_0 ditolak, H_a diterima

2. Pupuk Kandang

$$\begin{aligned}
 \text{MPPX5} &= b \cdot \frac{y}{x_5} \\
 &= 0,124 \cdot \frac{1475,85}{1835,11} \\
 &= 0,09
 \end{aligned}$$

$$\begin{aligned}
 \text{NPM X5} &= \text{MPP X5} \cdot P_y \\
 &= 0,09 \cdot 5000 \\
 &= 450
 \end{aligned}$$

$$\begin{aligned}
 \frac{\text{NPM}_{x_5}}{P_{x_5}} (K) &= \frac{450}{700} \\
 &= 0,64 \quad (K < 1)
 \end{aligned}$$

$$\begin{aligned}
 \text{Var } K &= \left[\frac{K}{b_i} \right]^2 \cdot \text{Var } b \\
 &= \left[\frac{0,64}{0,124} \right]^2 \cdot 0,002 \\
 &= 26,63 \cdot 0,002 \\
 &= 0,05326
 \end{aligned}$$

$$\begin{aligned}
 \text{T hitung} &= \left(\frac{1-K}{\sqrt{\text{Var } k}} \right) \\
 &= \left(\frac{1-0,64}{\sqrt{0,05326}} \right) \\
 &= \frac{0,36}{0,48} \\
 &= 0,75
 \end{aligned}$$

(T hitung) $0,75 < 5,118$ (T tabel) sehingga H_0 diterima, H_a ditolak