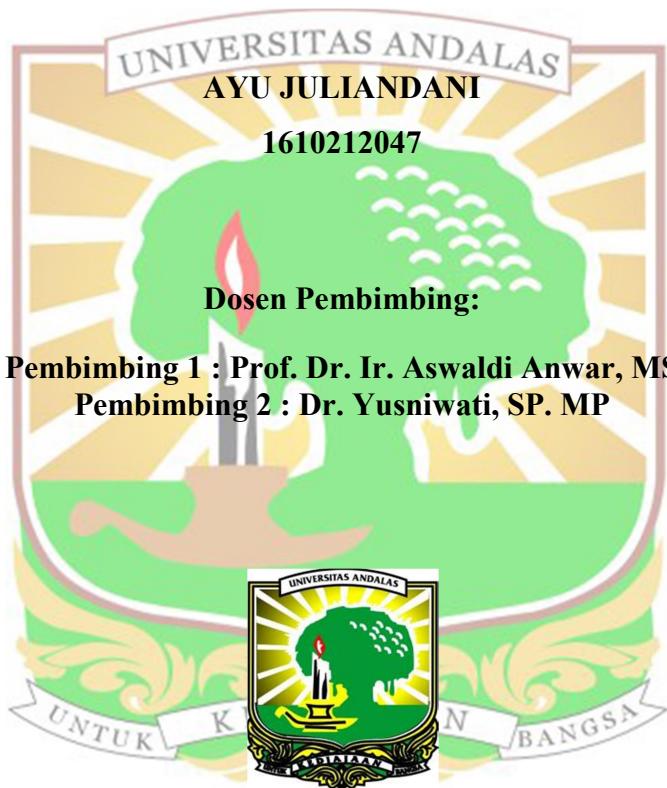


**PENGARUH METODE DEPULPING TERHADAP  
VIABILITAS DAN VIGOR BENIH KELAPA  
SAWIT (*Elaeis guineensis* Jacq.)**

**SKRIPSI**

**OLEH:**



**Dosen Pembimbing:**

**Pembimbing 1 : Prof. Dr. Ir. Aswaldi Anwar, MS**  
**Pembimbing 2 : Dr. Yusniwati, SP. MP**

**FAKULTAS PERTANIAN  
UNIVERSITAS ANDALAS  
PADANG  
2021**

# **PENGARUH METODE DEPULPING TERHADAP VIABILITAS DAN VIGOR BENIH KELAPA SAWIT (*Elaeis guineensis* Jacq.)**

## **Abstrak**

Kelapa sawit merupakan tanaman industri penting yang menghasilkan minyak nabati di dunia. Permintaan minyak sawit yang terus meningkat, juga mempengaruhi meningkatnya permintaan akan benih kelapa sawit varietas unggul bermutu. Proses pengolahan benih *depulping* menggunakan mesin *depericarper* dapat menyebabkan kerusakan mekanis sehingga perlu dievaluasi. Penelitian ini dilakukan untuk mengetahui pengaruh perlakuan *depulping* secara manual dan *depulping* menggunakan mesin *depericarper* terhadap viabilitas dan vigor benih kelapa sawit. Penelitian dilaksanakan di PT. Palma Inti Lestari, Kampar, Riau. Rancangan percobaan yang digunakan dalam penelitian ini adalah Rancangan Acak Lengkap (RAL) dengan 3 perlakuan dan 3 ulangan. Penelitian ini terdiri atas perlakuan: *Depericarper* dengan pemeraman (A), Manual dengan pemeraman (B), dan Manual tanpa pemeraman (C). Data hasil pengamatan dianalisis menggunakan uji F taraf nyata 5%. Jika hasil uji F berbeda nyata, maka dilanjutkan menggunakan uji *Duncan New Multiple Range Test* (DNMRT) taraf nyata 5%. Hasil penelitian menunjukkan bahwa Daya Hantar Listrik, Kadar Air Sebelum Perendaman I, Kadar Air Sebelum dan Setelah Perendaman II Persentase Kecambah Normal, Persentase Kecambah Abnormal memiliki hasil yang berbeda nyata. Metode *depulping depericarper* dengan pemeraman lebih baik daripada metode *depulping* manual dengan pemeraman dan manual tanpa pemeraman. Namun secara keseluruhan belum mampu meningkatkan viabilitas dan vigor benih kelapa sawit.

Kata Kunci : *kelapa sawit, depericarper, depulping, viabilitas, vigor*

## **EFFECT OF DEPULPING METHOD ON VIABILITY AND VIGOR OF OIL PALM SEED (*Elaeis guineensis* Jacq.)**

### ***Abstract***

Oil Palm is an important industrial plant that produces vegetable oil in the world. The demand for palm oil also affects the increasing demand for palm seed of superior quality. The process of seed processing Depulping using a depericarper machine can cause mechanical damage, so it needs to be evaluated. This research was conducted to find out the effect of manual depulping treatment and depulping using depericarper machine on viability and vigor of oil palm seeds. The research was conducted at PT. Palma Inti Lestari, Kampar, Riau. The experimental design used in this study was a Complete Randomized Design (CRD) with 3 treatments and 3 replications. The study consisted of treatments were Depericarper with milking (A), Manual with milking (B), and Manual without milking (C). The observation data in the analysis using F test at a probability level of 5%. If the F test results was significantly different, then continue using *the Duncan's New Multiple Range Test* (DNMRT) test at a probability level of 5%. The results showed that Electrical Conductivity, Seed Moisture Content Before Soaking I, Seed Moisture Content Before and After Soaking II, percentage of normal germination, percentage of abnormal germination has significantly different results. Depulping in depericarper method with milking was better than the manual depulping method with milking and manual without milking. But overall it has not been able to increase the viability and vigor of oil palm seeds.

*Keywords : oil palm, depericarper, depulping, viability, vigor*