

**PERBANDINGAN RENDEMEN BUAH NORMAL DAN  
ABNORMAL TANAMAN KELAPA SAWIT  
(*Elaeis guineensis* Jacq) HASIL KULTUR JARINGAN**

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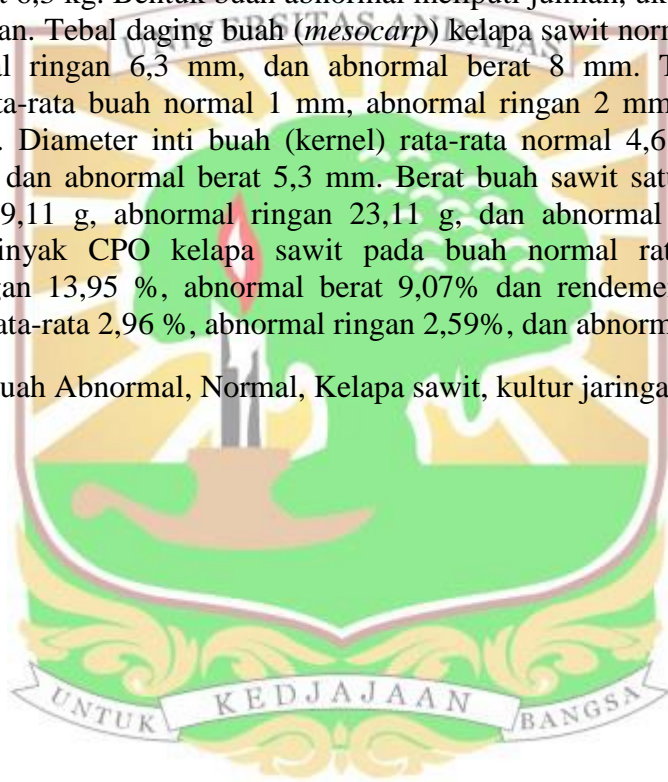


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## ABSTRAK

Rendemen kelapa sawit, yaitu perbandingan jumlah antara minyak kelapa sawit kasar atau CPO yang diproduksi dalam setiap kilogram TBS. Penelitian ini bertujuan untuk lebih memahami tentang kualitas rendemen yang baik dan dapat memberikan informasi mengenai berpengaruh atau tidaknya buah abnormal terhadap rendemen yang dihasilkan. Penelitian ini telah dilaksanakan di kebun binaan PPKS Sungai Dareh, Kecamatan Pulau Punjung Kabupaten Dharmasraya dan di Laboratorium Teknologi Hasil Pertanian, Universitas Andalas, Padang pada November 2017-Februari 2018. Penelitian ini menggunakan metode survey dengan pengambilan sampel *Purposive Random Sampling*. Hasil penelitian menunjukkan bahwa rata-rata berat tandan buah segar (TBS) kelapa sawit hasil kultur jaringan pada buah normal 7,5 kg, buah abnormal ringan 6,6 kg, dan abnormal berat 6,3 kg. Bentuk buah abnormal meliputi jumlah, ukuran, dan bentuk karpel tambahan. Tebal daging buah (*mesocarp*) kelapa sawit normal rata-rata 4,6 mm, abnormal ringan 6,3 mm, dan abnormal berat 8 mm. Tebal cangkang (*endocarp*) rata-rata buah normal 1 mm, abnormal ringan 2 mm, dan abnormal berat 1,6 mm. Diameter inti buah (kernel) rata-rata normal 4,6 mm, abnormal ringan 6 mm, dan abnormal berat 5,3 mm. Berat buah sawit satu butir rata-rata buah normal 9,11 g, abnormal ringan 23,11 g, dan abnormal berat 20,63 g. Rendemen minyak CPO kelapa sawit pada buah normal rata-rata 18,34%, abnormal ringan 13,95 %, abnormal berat 9,07% dan rendemen minyak KPO buah normal rata-rata 2,96 %, abnormal ringan 2,59%, dan abnormal berat 1,92%.

Kata kunci : Buah Abnormal, Normal, Kelapa sawit, kultur jaringan, Rendemen



## ABSTRACT

Oil palm rendement is the ratio between the raw extraction of palm oil or CPO produced in every kilogram of fresh fruit bunch. The research was aim to recognize the best quality of rendement and to provide information whether significant or insignificant of abnormal oil palm fruit on rendement. The research was conducted at PPKS farm of Sungai Dareh, Pulau Punjung sub district in Dharmasraya and at agriculture technology laboratory of Andalas University in Padang on November 2017-February 2018. Survey method and *Purposive Random Sampling* were used for collecting samples. The researched show that the weight average of oil palm fresh fruit bunch of in-vitro cultured plant was 7.5 kg for normal fruit, 6.6 kg for the light abnormal fruit and 6.3 kg for the heavy one. Abnormal fruit form is including number, size and shape of additional carves. The average of normal palm oil mesocarp was 4.6 mm, the light and the heavy abnormal fruit were 6.3 and 8 mm. The average of endocarp of normal fruit was 1 mm, the light and the heavy abnormal fruit were 2 and 1.6 mm. The average of normal carves diameter was 4.6 mm, the light and the heavy abnormal carves were 6 mm and 5.3 mm. The average weight of oil palm fruit was 9.11 g for normal fruit, 23.11 g and 20.63 g for light and heavy abnormal fruit. The average palm oil CPO rendement was 18.34% on normal fruit, 13.95% and 9.07% on light and heavy abnormal fruit. The average palm oil KPO rendement was 2.96% on normal fruit, 2.59% and 1.92% on light and heavy abnormal fruit.

Key Word: *Abnormal fruit, Normal fruit, Palm oil, In-vitro, Rendement*

