

ABSTRAK

Penelitian ini bertujuan untuk menganalisa kadar air dan kadar kotoran CPO sebelum dan sesudah melewati unit *oil purifier* dengan menggunakan metode paired sample t-test di PT. Herfinta Farm And Plantatin. Untuk menganalisa kadar air dan kadar kotoran sebelum dan sesudah *oil purifier* digunakan metode yaitu, metode paired sample t-test. Dimana metode *Paired Sample T-Test* ini bertujuan untuk melihat perbedaan rata-rata sebelum dan sesudah *oil purifier*. Pada metode ini dapat dilihat hubungan kuat lemahnya antara kadar air dan kadar kotoran sebelum dan sesudah *oil purifier*. Dari hasil output SPSS diperoleh nilai *mean* kadar air sebelum dan sesudah *oil purifier* sebesar 35.7895 dan 28.6842. Sedangkan untuk nilai *mean* yang diperoleh kadar kotoran sebelum dan sesudah *oil purifier* sebesar 16.3684 dan 14.3158. Dari hasil nilai koefisien korelasi yang diperoleh kadar air dan kadar kotoran sebelum dan sesudah *oil purifier* sebesar 0,705 dan 0,662 ini merupakan hasil *range* hubungan yang sangat kuat. *Output* dari nilai t hitung kadar air sebelum dan sesudah *oil purifier* diperoleh sebesar 6.280, sedangkan *output* dari nilai t hitung kadar kotoran sebelum dan sesudah *oil purifier* sebesar 6.824 dimana nilai t tabel dapat dilihat dari df bernilai 18 maka, t tabel sebesar 2,101, sehingga dapat disimpulkan t hitung > t tabel yang berarti H_0 diterima.

Kata kunci: Kadar air, Kadar kotoran, *Paired Sample T-Test*, *Crude Palm Oil*,

Oil Purifier

ABSCART

This study aims to analyze the water content and dirt content of CPO before and after passing through the oil purifier unit using the paired sample t-test method at PT. Herfinta Farm And Plantatin. To analyze the water content and dirt content before and after the oil purifier, the paired sample t-test method is used. Where the Paired Sample T-Test method aims to see the difference in the average before and after the oil purifier. In this method, the strong and weak relationship between water content and dirt content before and after the oil purifier can be seen. From the SPSS output results, the mean value of water content before and after the oil purifier was 35.7895 and 28.6842. While the mean value obtained for dirt content before and after the oil purifier was 16.3684 and 14.3158. From the results of the correlation coefficient value obtained, the water content and dirt content before and after the oil purifier were 0.705 and 0.662, this is the result of a very strong relationship range. The output of the t-value of the water content before and after the oil purifier was obtained at 6,280, while the output of the t-value of the dirt content before and after the oil purifier was 6,824 where the t-table value can be seen from the df value of 18, then, the t-table is 2.101, so it can be concluded that the $t\text{-value} > t\text{-table}$ which means H_a is accepted.

Keywords: Water content, Dirt content, Paired Sample T-Test, Crude Palm Oil, Oil Purifier