

ASSUMPTION OF BIOMASS CALCULATION

Total Site Area (acre) =	160.18 acre
Total Area by cover by palm oil (80 %)=	128.14 acre
Average distance per tree =	2.00 m
1 acre =	4,046.83 m ²
1 tree coverage area =	4.00 m ² (Assumption 2m X 2m)
Average tree per area =	1,011.71 tree/ac
Rounder =	1,012 tree/ac
Total Oil Palm Tree assumption left =	129,682 tree

Where,

D = dbh at breast height (cm)

Diameter (D) 61 @ 2ft

A more conservative figure of 2 feet (≈ 61 cm) is used.

Substituting in the equation, therefore: $Y = 42.69 - 12.800(D) + 1.242(D^2)$

$$Y = 42.69 - 12.800(61) + 1.242(61^2)$$

$$Y = 3,883 \text{ kg/tree}$$

$$\text{Total of Biomass} = 3.883 \text{ tonne/tree} \times 192,973 \text{ trees}$$

$$\text{Total of Biomass} = 503,554 \text{ tonne}$$