

**COMPARISON OF PHYSICAL CHARACTERISTICS OF COCOA FRUIT
(*Theobroma cacao* L.) ON STIMMS (ORTHOPRES) AND BRANCHES
(PLAGIOTROPS)**

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ABSTRACT

This study aims to determine the differences in the physical characteristics of the fruit and the quality of the cocoa beans produced on the main trunk and also on the branches. The research entitled "Comparison of the Physical Characteristics of Cocoa Fruit (*Theobroma cacao* L.) on the Main Stem (Orthotrope) and on the Branches (Plagiotrope)" was carried out from September to December 2022 at the Kendeng Lembu Plantation. Where the data analysis applied to this study was the Independent T test using 2 samples originating from the main stem and also branches, namely with the name sample B = fruit sample from the main stem, and also K = fruit sample from the branch. The research parameters observed included fruit length (cm), fruit diameter (cm), fruit weight (grams), fresh seed/fruit weight (grams), number of seeds/fruit, dry weight of seeds/fruit (grams), yield and amount seeds in 100 grams of dry seeds. The Independent T test showed that there were highly significant differences in the physical characteristics of the cocoa pods in almost all parameters except for the parameter pod length and also the number of beans in 100 grams of dry beans which indicated the quality of the cocoa beans was not significantly different between the beans produced on the main stem and on the branch.

Keywords: Physical characteristics, Orthotrope, Plagiotrope