

**THE EFFECT OF ORGANIC AND INORGANIC FERTILIZER ON GROWTH  
PERFORMANCE AND DRY MATTER YIELD OF TEA SEEDLINGS IN TWO  
ECOLOGICAL ZONES OF NIGERIA**

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## **ABSTRACT**

In crop research, most breeders have the problem of selecting a crop type that will give higher yield; hence the analysis of effect of organic and inorganic fertilizer on growth performance and dry matter yield of tea seedlings was carried out. The methods used for the analysis was factorial design and covariance analysis. The result shows that the poultry droppings, cow dung and tea fluff were highly significant in values both sites than NPK for factorial design then the environmental effect plays a prominent role in plant height and plant girth in both locations for covariance analysis.

Therefore, the conclusion is that the seedlings were adequately nourished with organic materials and their nutrient uptake of tea seedlings are improved by the applications of organic materials while their combined uses with inorganic fertilizers are needed to augment the fertility potential of the soils for better performance of tea seedlings.