

**ANALYSIS ON THE EFFECT OF INTERCROPPING
ON YIELD, GROWTH AND SPREAD OF SWEET
POTATO AND COWPEA.**

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ABSTRACT

This research work, **Analysis on the effect of intercropping on yield, growth and spread of cowpea and sweet potato** at the College of Plant Science, Federal University of Agriculture Abeokuta, limited itself majorly to the use of experimental design as a statistical procedure to check the effect of intercropping on yield, growth, height of crops and moisture of leaf. In this case, only Analysis of Variance (ANOVA) using SPSS is used to analyse the data and Least Significant Difference (LSD) is utilised to test quality of the mean and the significant difference between data. The method applied in the analysis has been able to solve some problems in the agricultural sector. Some of these problems are Low crop yield, low leaf moisture, unhealthy growth of crops.

From the result of the analysis, it shows that intercropping of crops improves yield and moisture content of the leaf. The method gives full knowledge that intercropping of crops has more advantage to the crops and produce, which simply means it has effect. It can be deduced from the result how significant the experiment was, and it was denoted from the ANOVA table with (*) sign.

In conclusion it can be deduced from the analysis of experiment that Intercropping of sweet potato with cowpea would increase more yield of sweet potato ,which simply means that intercropping should be recommended for more yield of sweet potato, hence recommended as a food feed booster especially under a small holder farming system. An advantage commonly claimed for intercropping system is that they offer greater yield stability than sole cropping (Baker 1980 and morgado 1984) which the result of this analysis has confirmed.