

## **Title: "Impact of Sustainable Agricultural Practices on Crop Yield and Environmental Resilience: A Case Study in Sub-Saharan Africa"**

### **Abstract:**

This research paper investigates the effects of sustainable agricultural practices on crop yield and environmental resilience in Sub-Saharan Africa. Through a combination of field experiments, data analysis, and community surveys, the study assesses the adoption and impact of agroecological techniques on smallholder farms.

Key objectives include evaluating the agronomic performance of sustainable practices such as crop rotation, intercropping, and organic fertilization, and analyzing their influence on soil health and biodiversity. The research also explores socio-economic aspects, considering the livelihoods of farmers and the resilience of local communities to climate change.

Preliminary findings suggest a positive correlation between sustainable agricultural practices and increased crop yields, alongside enhanced environmental sustainability. The study contributes to the discourse on promoting resilient and sustainable agriculture, offering practical insights for policymakers, agricultural practitioners, and communities in the pursuit of food security and ecological balance.

