

Conservation Agricultural Practices in West Africa

P.V. Vara Prasad^{1*}, Jesse B. Naab², Mamadou D. Doumbia³ and Timothy J. Dalton¹

¹Kansas State University, USA; ²Savanna Agricultural Research Institute, Ghana; and ³Institut d'Economie Rurale, Mali

*E-mail: vara@ksu.edu

Goal and Objectives

Goal of this project is to provide food security by increasing productivity and economic returns to smallholding farmers dependent on rain-fed agriculture.

Objectives of this research are:

- (a) test various conservation agricultural practices under on-station and on-farm conditions; and
- (b) identify practices that are sustainable and contribute to crop productivity and soil health.

Conservation Agricultural Practices



Crop Residues



Cover Crops



Minimum Tillage



Crop Rotations



Water Harvesting



Nutrient Management



Large quantities of crop residue is produced by local genotypes that are tall. However, after harvest residue is collected and taken out of the field and stored due to alternative uses and biotic and abiotic challenges.

Challenges



Market Value



Building Material



Fences



Animal Grazing



Termites



Fire Hazards

Research Approach and Road Map

