Introduction

- Coffee and bananas are some of the most important cash and food crops in Uganda
- Both crops are often grown on the same farm either as sole crops or intercrop but also inter-planted with trees
- The 3 complement each other in terms of socio-economic benefits to farm household
  - Coffee – income and food security
  - Banana – food security
  - Shade trees – environmental, income, food security
- However, limited research has been done on how to intercrop the three – optimum planting arrangement, shade management
- Promotion of some pests and diseases e.g. black coffee twig borer

Objectives

- To characterize the existing coffee-banana agroforestry systems of Uganda
- To identify the major biotic and abiotic constraints of coffee and bananas in the coffee-banana agroforestry systems of Uganda
- To assess existing farmers’ coping strategies for the biotic and abiotic constraints in the coffee-banana agroforestry systems of Uganda

Results

- Coffee-banana agroforestry systems characterized
- Major abiotic and biotic constraints in coffee-banana agroforestry systems identified
- Farmers coping options for biotic and abiotic stresses in the systems identified
- Black coffee twig borer (BCTB) observed infesting field cocoa for the first time in Uganda
- Shade trees that are alternate hosts for BCTB documented
- Red blister disease observed as an important disease on Robusta coffee

Recommendations

- Promote the coffee-banana agroforestry systems where they do not occur e.g. mid-northern Uganda
- Determine site-specific coffee:banana:tree spacing regimes using models
- Select & promote banana cultivars and coffee varieties that can withstand harsh conditions of mid-northern Uganda
- Identify other good trees for the systems
- Promote generation of shade trees and banana seedlings in coffee nurseries

Technical advice documents generated – shade trees & BCTB management to inform policy
- 4 manuscripts submitted for publication
- 2 MSc graduates in Agroecology

Impact on stakeholders

- Farmer training materials developed
- Entry point for promotion of coffee & bananas in mid-northern Uganda
- Albizia coriaria seedlings produced at NaCORI

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