Assessment and interpretation of the spatial distribution of CBD and CLR in Central Kenya

By
Alwora Getrude Okutoyi
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Supervisors: Dr. E.K. Gichuru- CRF
Dr. Fabrice Pinnard- CIRAD

OBJECTIVES

Broad objective

- To promote sustainable coffee production by enabling management of coffee pests through establishment of their distribution and status.

Specific objectives

- To study the distribution of CBD and CLR in relation to climate change
- To study the severity , occurrence and intensity of CBD and CLR
- To characterize CBD using AFLP and microsatellites.

MATERIALS AND METHODS

Site description

- The study will be carried out in Murang'a County in Central Kenya. 40 farms planted with susceptible coffee varieties and have no history of chemical control will be identified along the transect.

Data collection

- Ten trees will be randomly selected in each of the nine farms and marked.

- Data on CLR and CBD will be recorded on ebranches every month.

MATERIALS AND METHODS

Data to be collected

CBD

- Number of pinheads
- Number of berries at 3 distinct stages of development i.e. expanding, premature and ripe berries.
- Number of berries with scab lesions
- Number of berries with active CBD
- Number of mummified berries.

MATERIALS AND METHODS

CLR

- Number of leaves
- Number of infected leaves
- Total number of lesions per leaf

PROGRESS

- Field visit has been carried out.
- The protocol is being finalized
- Budget is being finalized
- Field layout was done in the first week of November
- First set of data to be collected in the second week of November

PLAN

ACTIVITY	TIME (IN MONTHS) 2013	2014
Proposal writing and presentation		
Data collection and laboratory work		
Data Management and Statistical analysis		
Thesis write up		
Defense of thesis		