Promotion of improved technologies for coffee in Mt. Kilimanjaro Transect line

Progress report presented at the AFERIA Project Multi-stakeholders Forum in Moshi
18th August, 2017

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Improving Income Security and Livelihoods
1. Farms surveyed
   - Criteria for farm identified
   - Total coffee farms surveyed
   - Data collected during the survey

2. Training on CBB in general
   - Symptoms, damage and crop loss
   - Control measures

3. Installation of Brocap trap
   - Assembling & refilling of lures
   - Installation of trap in the demonstration plots

4. Other activities

5. General comments and observation
## Coffee farms surveyed

<table>
<thead>
<tr>
<th>S/NO</th>
<th>VILLAGE</th>
<th>FARMS SURVEYED</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Marua</td>
<td>7</td>
</tr>
<tr>
<td>2</td>
<td>Kanango</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>Nduoni</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>Kanji</td>
<td>5</td>
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<tr>
<td>5</td>
<td>Iwa</td>
<td>15</td>
</tr>
<tr>
<td>6</td>
<td>Kwamare</td>
<td>10</td>
</tr>
<tr>
<td>7</td>
<td>Manu</td>
<td>4</td>
</tr>
<tr>
<td>8</td>
<td>Yamu</td>
<td>7</td>
</tr>
<tr>
<td>9</td>
<td>Uparo</td>
<td>10</td>
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<tr>
<td></td>
<td>Grand total</td>
<td>63</td>
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</table>
Criterial for identification of farms

- Nearby the road, easily accessible by farmers
- Presence of coffee berries infested with CBB
- A farm with at least one acre and above
Data collected during the survey

- Name of the farmer owning the farm
- Name of the village, Ward and Division
- GPS coordinates (latitude and longitude)
- Altitude of the farm from sea level
- Estimated area of the farm with coffee
Training on CBB in general

Training includes

1) Village leaders – security purposes

2) Farmers

- Total of 191 farmers
- (125 men & 56 Women) trained
Training on CBB in general......

- Symptoms, damage & crop loss
- Management by use of traps & other means
- Installation & servicing
Symptoms and damage caused by CBB

- Bore and feed berries in the field
- Berries attacked falls down in the ground
- Feeds the coffee beans up to the storage
CBB control measures

- Use of branch stripping (picking and eliminating all unripe, ripe and dry fruits)
- Agronomical control (pruning and cleaning of coffee tree plantation)
- Use of traps (Brocap and TaCRI traps) with attractant/lures
Crop loss and quality of beans

- Causes a crop loss of 50 - 80% (if not controlled)
- Lowers the cup quality and quantity
Assembling and filling of traps with lures

- Assembling of traps,

- Refilling with lures (Ethanol & Methanol 1:3).
Installation of Brocap traps in the field

- Installation of Brocap traps in farmers demonstration

- Interval of installation;
  - 20m X 20m from trap to trap
  - 25 m x 25 m from one line to the other to make an average of 20 traps/hectare
## Coffee farms installed with Traps

<table>
<thead>
<tr>
<th>S/No</th>
<th>Village</th>
<th>Farmers name</th>
<th>No. of traps installed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Marua</td>
<td>Pantaleo Kilawe</td>
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<tr>
<td>2</td>
<td>Kanango</td>
<td>Daniel Macha</td>
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<tr>
<td>3</td>
<td>Nduoni</td>
<td>John Kilawe</td>
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<td>Kanji</td>
<td>Emmanuel Kisaka</td>
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<td>Kwamare</td>
<td>John maembe</td>
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<tr>
<td>7</td>
<td>Manu</td>
<td>Joseph Urio</td>
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<tr>
<td>8</td>
<td>Yamu</td>
<td>David Temba</td>
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</tr>
<tr>
<td>9</td>
<td>Uparo</td>
<td>Africana Kundi</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td><strong>Grand total</strong></td>
<td></td>
<td><strong>100</strong></td>
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</table>
Participation in various events

- Environmental day 5\(^{th}\) June, 2017 at Mwanga district (More than 1,000 farmers visited)

- Agricultural shows (Nanenane) at Arusha 1\(^{st}\) - 13rd August, 2017 (More than 5,000 farmers visited)
Future activities

- Establishment of nursery for coffee resistant to coffee leaf rust (CLR) & coffee berry disease (CBD) is underway

- Fund from Pangani Basin have been transferred to TaCRI ready for implementation

- Continue assessing the effectiveness of the traps
  - Servicing, counting and recording the number of adult CBB trapped
Additional of Brocap traps is required for more demonstration blocks (if it is available)

Very few farmers are aware of the pest, hence training in the future is important
Thank you for your attention.

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