# Site: USAID/Rwanda Pyrethrum Program (Pyramid II) Abakundibireti Cooperative

Location	Musanze
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Sector	Agriculture
Background	A few types of Chrysanthemum flowers, but especially Chrysanthemum cinerariifolium naturally contain a mixture of six chemicals (pyrethrins) that are toxic to insects, acting on their nervous systems. They also often have a repellent effect even in less-than-fatal concentrations. Pyrethrins are specifically contained in the seed cases of the flower. Extracting the pyrethrins involves a process of drying, grinding to powder, and (usually) extraction with solvent, and then dilution to a level of 25% or 50% pyrethrin active ingredient. This resulting product is called <a href="Pyrethrum Pale Extract.">Pyrethrum Pale Extract.</a>
	See pyrethrum factsheet & pyrethrum extract MSDS in session 4 materials.
Project	Project began in June 2012 and ends June 2015
briefing	
J	Farming
	<ul> <li>Pyrethrum rotated with Irish potato</li> </ul>
	<ul> <li>Farmers were given plots by the government in the 1970's</li> </ul>
	<ul> <li>Farmers located on volcanic soil fertile belt</li> </ul>
	<ul> <li>Don't use any synthetic pesticides/chemicals (pyrethrum is natural</li> </ul>
	pesticide)
	o Each farmer has around .2 ha of land
	<ul> <li>Land has been reduced due to population growth</li> </ul>
	o Issues:
	<ul><li>Fungal growth a problem during high rains</li></ul>
	<ul><li>Need concrete flooring under drying racks so they don't lose</li></ul>
	flowers
	<ul><li>Buffalo ruining some crops</li></ul>
	Pyrethrum growing cycle is February-February
	o Planting from March-April
	Harvesting from August/September until January/February (every 2
	weeks)
	February begin prepping for planting again
	30,000 farmers in 7 cooperatives  From a congression bes 200, 200 members (not every farmer is member)
	o Every cooperative has 200-300 members (not every farmer is member)
	Cooperatives receive management training  Management training
	Membership fee: 10,000 RWA (one-time payment)  Membership fee: 10,000 RWA (one-time payment)
	<ul> <li>Member benefits:</li> </ul>

- Best practice training
   Inputs (fertilizers and seeds for free)
   Cooperative helps may medical insurance every year
  - Provides small loans without interest (mostly for children's school fees)
  - Cooperative provides driers
    - Non-members use matts to dry, which worsens quality
  - Cooperative buys flowers from farmers at 1085 RWA/kilo
    - Cooperatives buy from farmers at 1012 RWA/kilo, so they make a margin of 42 RWA/kilo
  - Farmers harvest flowers every 2 weeks
    - Horizon/Sopyrwa picks up dried flowers from cooperatives and brings to processing plant
      - 2 metric tons collected every 2 weeks
  - Processing:
    - Flowers are not stored long (receive and process every 2 weeks)
    - o Flowers are grinded into Glist powder (some powder sold to Agropharm)
    - Power goes through channel to refinery, where it is mixed with solvents (either exon or methanol)
      - Quality increases up to 70%
    - o Buyers buy product at 50%, so concentration needs to be reduced
    - After refinery, oil is extracted, the solvent is recaptured, and concentration is reduced to 50%
  - Market
    - o Some oil sold to Agropharm
    - o Most buyers are from the US
    - o Some Asian buyers (Korea, India)

# Cooperative visited

#### Abakundibireti, 12 km from Musanze in Kinigi

President: Phil Belt

#### **Gender Program**

- Composting
- Empowerment/Capacity building
- Women gather in the evenings to discuss issues and collect funds to distribute as needed to eachother

(see photos next page)

### **Photos**







