



World Pulses Day

#LovePulses for healthy diets and planet

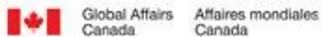
Insights from youth owned
integrated bean value chain (seed
production & bean processing)

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BILL & MELINDA
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INTRODUCTION

- According to the 2020 Global Report on Food Crises, more than half of the 135 million acutely food insecure people in the world in 2019 live in Africa (73 million)
- To meet food shortages in Africa (Eswatini especially) - Smiling Through, a Youth owned (2 men and 1 woman) integrated bean value chain - was established in 2013 and legally registered in 2016
- Started (29 ha of leased farmland in Malkerns) - bean seed production, bean grain production, green mealies (corn), and vegetables
- Promote production and consumption of beans through value addition



PARTNERSHIPS AND COLLABORATIONS



Through our collaboration with the National Bean Research Institution and the Pan African Bean Research Alliance (PABRA), we have been able to :

- Produce basic and certified seed of bean varieties released by DAR – with PABRA support
- Commercialize a processed bean–based food product developed by DAR with PABRA support - bean jam made from biofortified – high Fe and Zn content bean



GROWTH IN SEED PRODUCTION

Produce 3 Bean varieties, working with farmers - 87% being women and youths:

- Natal yellow – produced about 4 tons in 2014 with (7) farmers
- NUA 45 (Red mottled) – produced more than 5 tons in 2014 to 2016 with (4) farmers
- Kranskop (red speckled sugar bean) – produced more than 20 tons from 2014 to 2020 with (15) farmers



GRAIN PRODUCTION AND MARKET LINKAGES



Trading 2 main bean products (Kranskop and NUA45), and about 70% of the farmers involved are women and youths:

- Red mottled bean (NUA45)– produced more than 35 tons in 2019 with (5) farmers
- Red speckled sugar bean (Kranskop) – produced more than 50 tons in 2020 with (10) farmers

- Targeting 200 tons in 2021, as COVID_19 has increased demand for grain

The main buyers of the grain are the World Food Program, Shoprite, OK Foods,



TECHNOLOGY AND VALUE ADDITION



- Bag filling and stitching machines used to seal grain and seed. Seeds are packaged in 10 kg or less as shown in the picture above to ease purchase by the most vulnerable

- Franchise model is used to market the bean-based products within the SADC region
- In 2020, more than 35 tons of beans have been used to produce different bean based products



CHALLENGES AND FUTURE OUTLOOK

■ Challenges:

- Access to capital finance from banks
- COVID 19 had effects on the availability of inputs (seed/fertiliser), market, labor and transport <https://doi.org/10.1016/j.agry.2020.103034>
- Shortages of grain for value addition

■ Future Outlook:

- Additional bean processing equipment have been provided through SDC COVID-19 responsive fund support – to enhance production and expand supply to school feeding program
- Increasing youth and women out growers' interest
- Expand the franchise model for the bean jam
 - SADC region (South Africa, Malawi, Mozambique and Zimbabwe)
 - Export to USA and EU



Thank you!

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