



ARI UYOLE

BEAN AND OIL SEED SECTION

Introduction

- ❖ Common bean and Soybean is an important crop for food and nutrition security, income generation and for soil fertility amendments.
- ❖ Common bean is a valuable source of protein, minerals and vitamins.
- ❖ Soybean contains 20% non-cholesterol oil and 45% protein compared to 20 and 13% protein content in meat and egg.
- ❖ Despite this importance and potential, utilization in food and feed formulation has not been adequately exploited compared to other countries.

On going activities

- ❖ Collection of common bean/soybean germplasm
- ❖ Conducting trials for common bean/ soybean variety on station and on-farm (adaptation)
- ❖ Promotion of common bean/soybean new varieties through on-farm trials, demonstration and Field Days
- ❖ Production of pre-basic seeds for common bean/soybean varieties
- ❖ Training small scale farmers on QDS production and agronomic practices for common bean/soybean production.
- ❖ Train farmers on the utilization of common bean/soybean at household level.

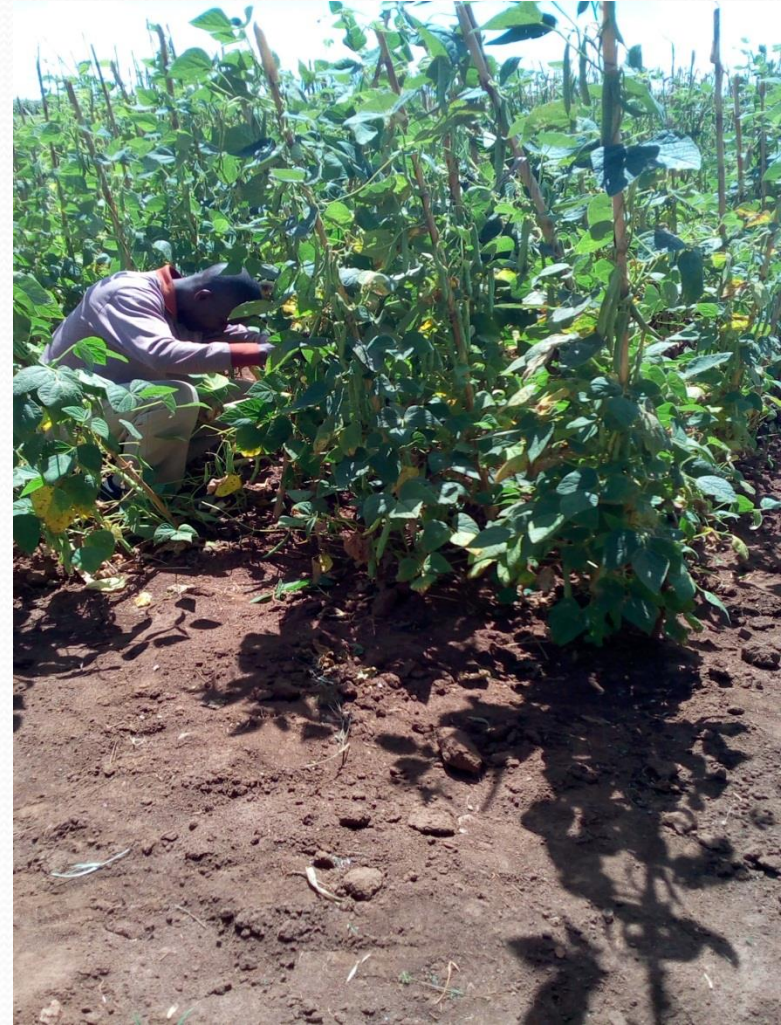
On going activities...

- ❖ Preparation of **soybean variety** descriptors for DUS as one new variety is planned to be released, TGX 1740-2F
- ❖ Evaluation of soybean rotation with maize on soil fertility improvement
- ❖ Evaluation and promotion of biofortified beans
- ❖ Validation of planting time for common bean
- ❖ Evaluation and promotion of post emergence herbicides for common bean production

Achievements

- ❖ ARI Uyole has conducted a considerable work in variety developments which lead to release of more than 20 common bean varieties and 4 soybean varieties
- ❖ Awareness of new common bean and soybean varieties in SHZ
- ❖ There is increased adoption of improved agronomic practices for beans production in SHZ
- ❖ Some of villages reached out in Rukwa region are Mwai, Kantawa, Kalundi, Nkomolo 1, Nkomolo 11, Kalembo, Mshani, Laela, Matai, Chanji, Kaengesa, Nkasi, Muva, Milundikwa, Kasu, Mkole, Malowe, Katuka, Kate, Mvimwa, Kipande, Kantawa, Chara etc.

Climbing beans-Milundikwa Rukwa



Biofortified beans-Milundikwa



Soybean trials- Miludikwa



Farmers field day



FARMER QDS FIELD



On farm Trials



ARI-Uyole field



Challenges

- ❖ Climate change hence increased pests and diseases infestation, poor soils **fertility** and droughts in some areas
- ❖ In general, seed availability is limited despite the effort of ARI Uyole in multiplying **pre-basic** seeds for **Agriculture Seed Agency to multiply basic seed and certified.**
- ❖ Little funds to reach many farmers
- ❖ Lack of mechanization implements for planting and harvesting hence high labour costs

DIFFERENT BEAN RECIPES



THANK YOU