

Introduction

- **Disease Resistance:** Focus on breeding pigeonpea varieties resistant to common diseases like fusarium wilt
- **Insect pest Resistance:** Incorporate genetic material from resistance parents to introduce new traits on pod borer resistance.

Challenge

- Pigeonpea fusarium disease
- Pigeonpea pod borer insect pest
- Time of pigeonpea maturity (short, medium and Long)

Solutions

- Trial establishment in 3 sites to release improved varieties
- Regional trials
- Materials organized by CIMMYT from NARES



Advancements in Pigeonpea Breeding and Population Improvement conducted during 2024 in Tanzania

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Key messages/Insights

1. Attained materials from East and southern countries



Acknowledgements

Supported by

BILL & MELINDA
GATES foundation



Led by

CIMMYT



Current implementation status

- 4 crosses were made
- 4 progeny obtained
- Evaluation of 64 pigeonpea medium duration maturity lines from CIMMYT in 3 sites
- Evaluation of 15 pigeonpea short duration maturity in 3 sites

What are your plans to sustain?

- **Collaborative Research:** Strengthening partnerships with national and international research institutions to share knowledge and resources.
- **Breeding efforts:** Continue to breed pigeonpea varieties resistant to diseases such as fusarium wilt and insect pests such as pod borer
- **Population development:** Continue to conduct crosses for different market segment