

# Bambara Groundnut Research Activities at IITA

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Cowpea Breeder

# OUTLINE OF THE PRESENTATION

- Introduction
- Bambara Groundnut: IITA Genetic Resource Centre
- Preliminary evaluation of Bambara groundnut
- Future prospects

# INTRODUCTION



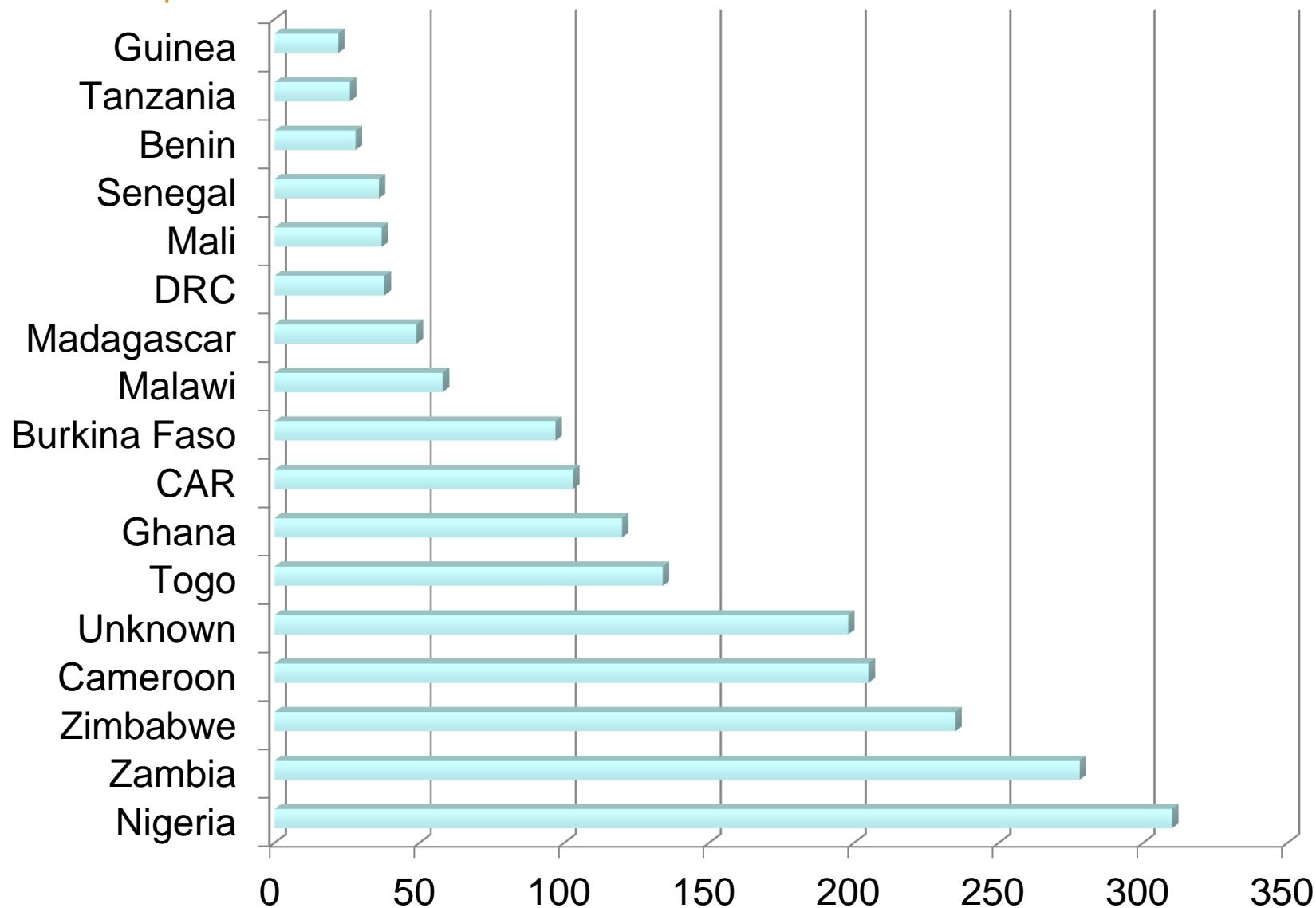
- Important food legume in Africa
  - Source of protein
  - Income for women
- Adapted to poor soil fertility and drought
- Poor statistics

# IITA GENETIC RESOURCE CENTRE



- Collection started in 1971
- 1733 germplasm accessions
  - 99% from Africa
    - 16% Nigeria
    - 14% Zambia

## Origin of Bambara groundnut collection at IITA

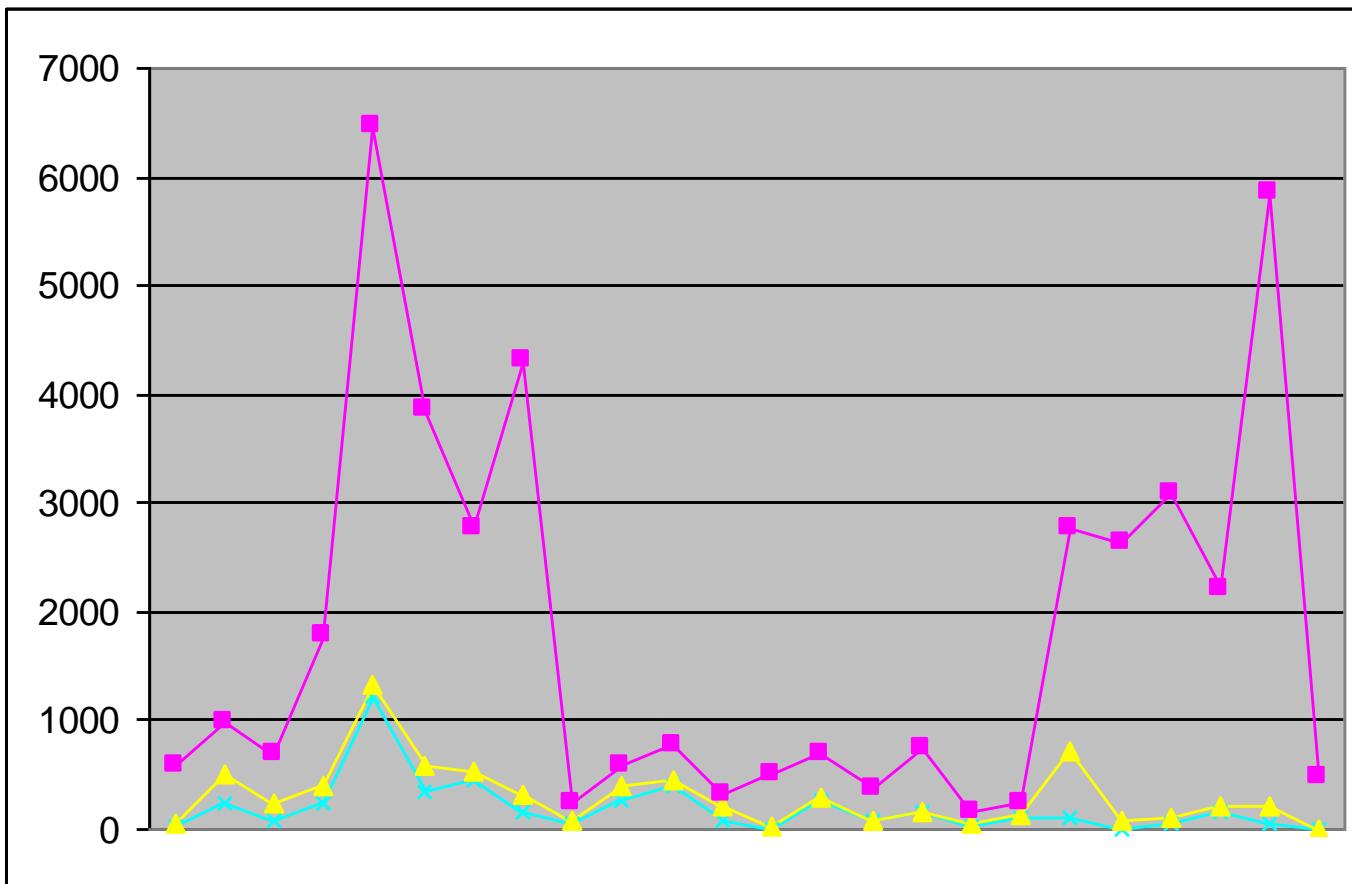




- Characterization
  - 40 descriptors used
  - 99% collection described
- Safe duplication
  - 548 Svalbard (Norway)
  - 140 Saskatoon (Canada)
  - 52 Benin, 1000 Mali and 75 Niger

# Distribution

- Volume (1985-2008)



Cowpea  
35970 distinct  
70% collection

Bambara  
2613 distinct  
51% collection

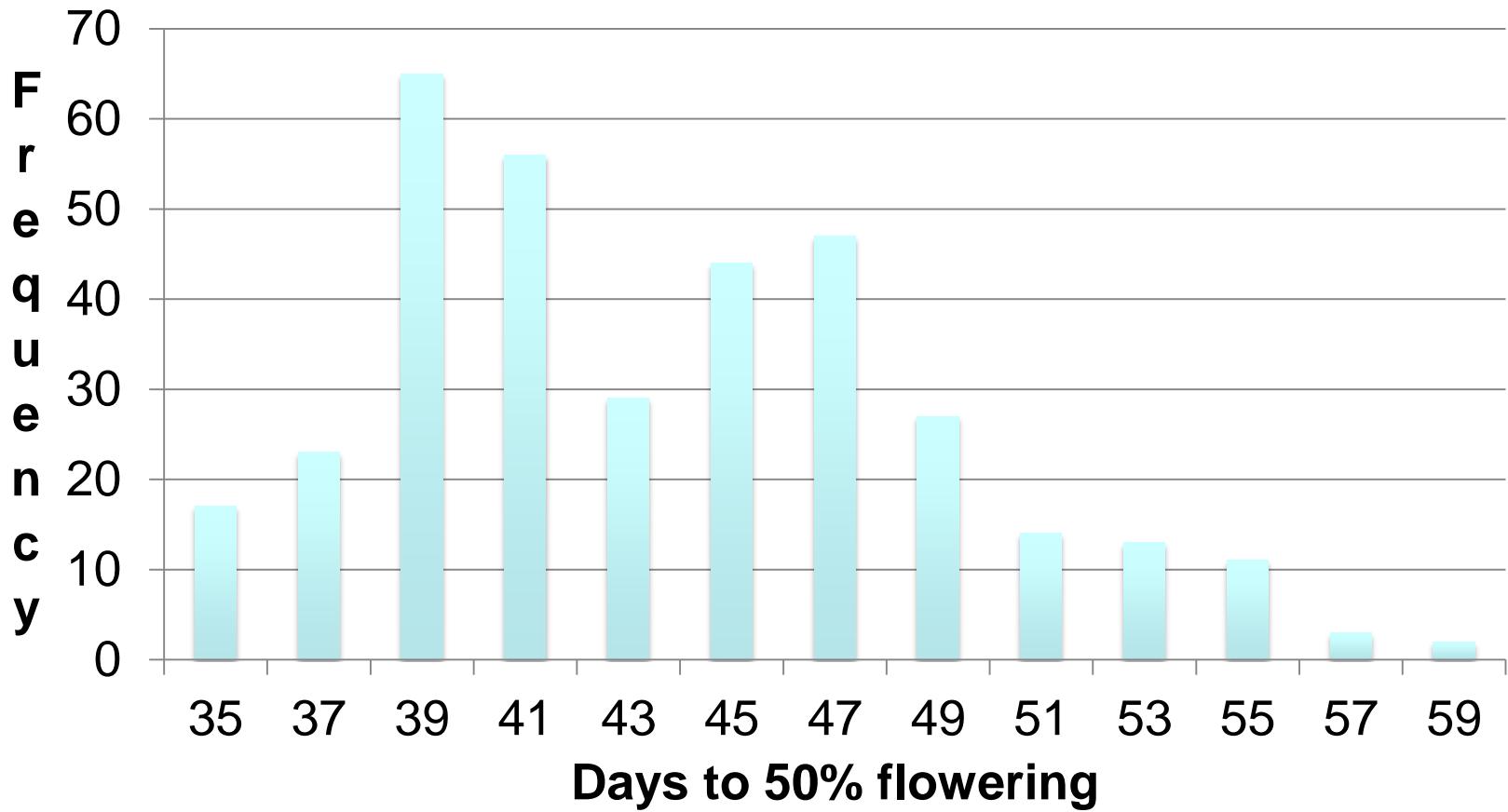
Wild vigna  
4598 accessions  
67% collection

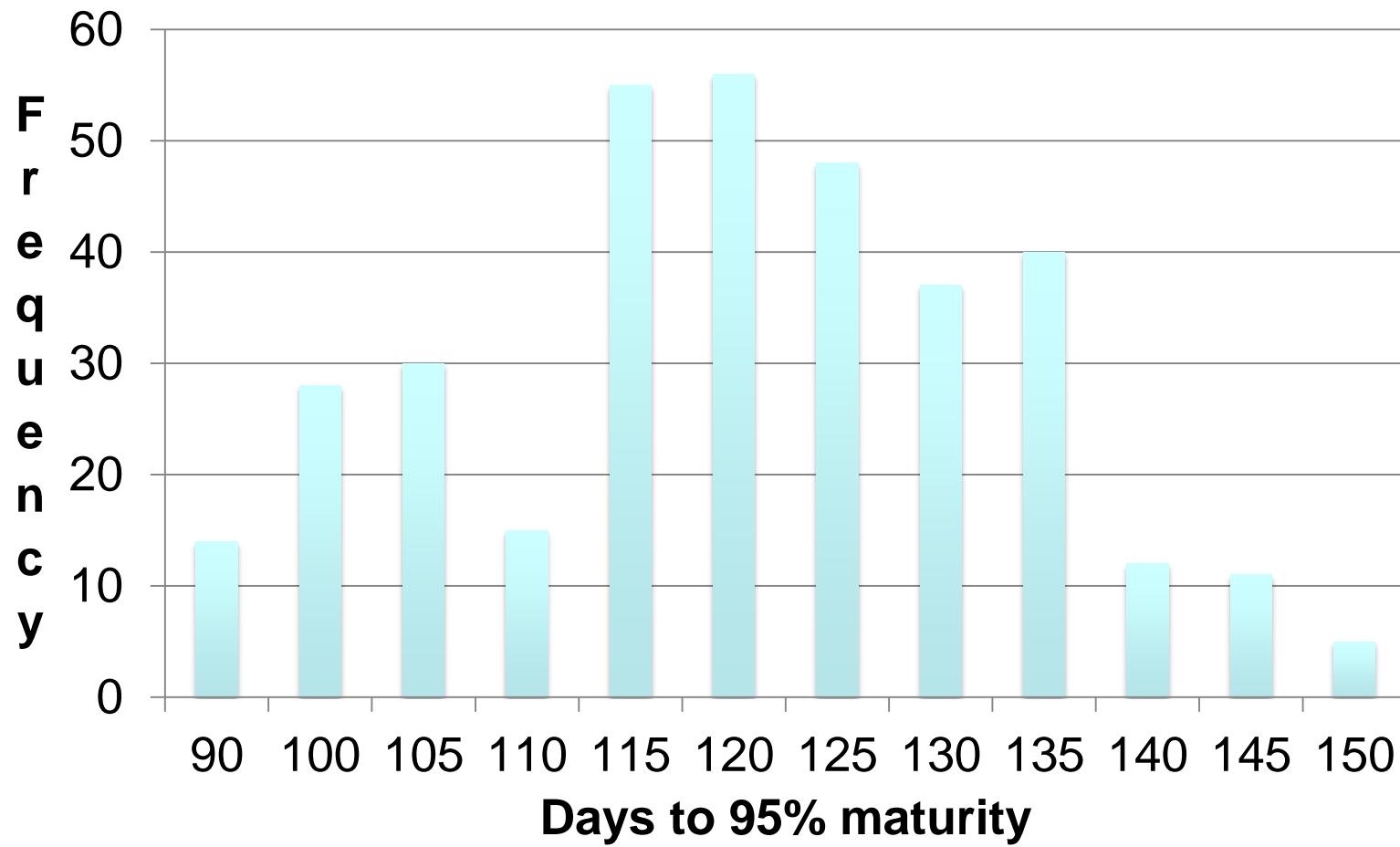
Source: Dumet, 2010

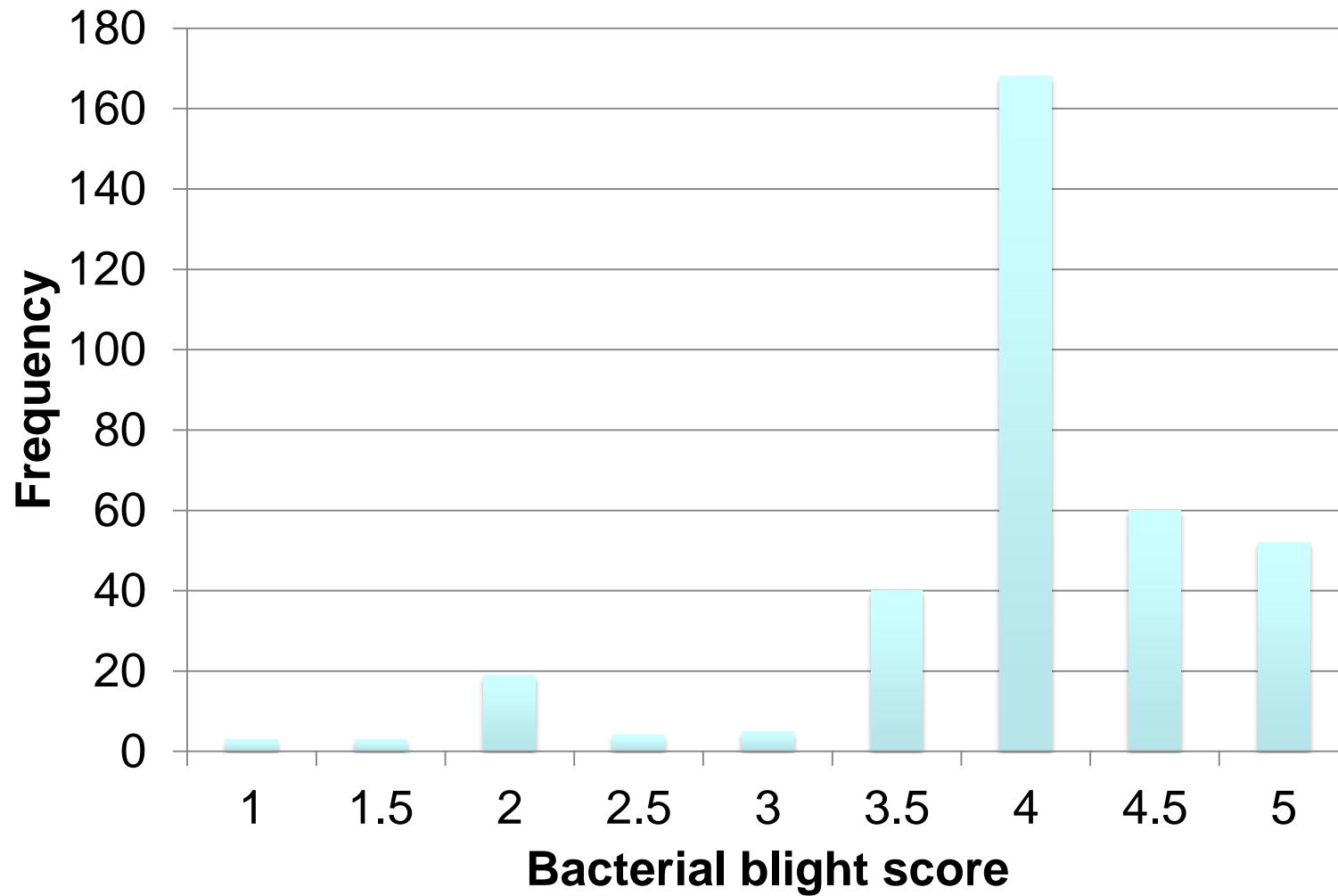
# PRELIMINARY EVALUATION OF IITA COLLECTION

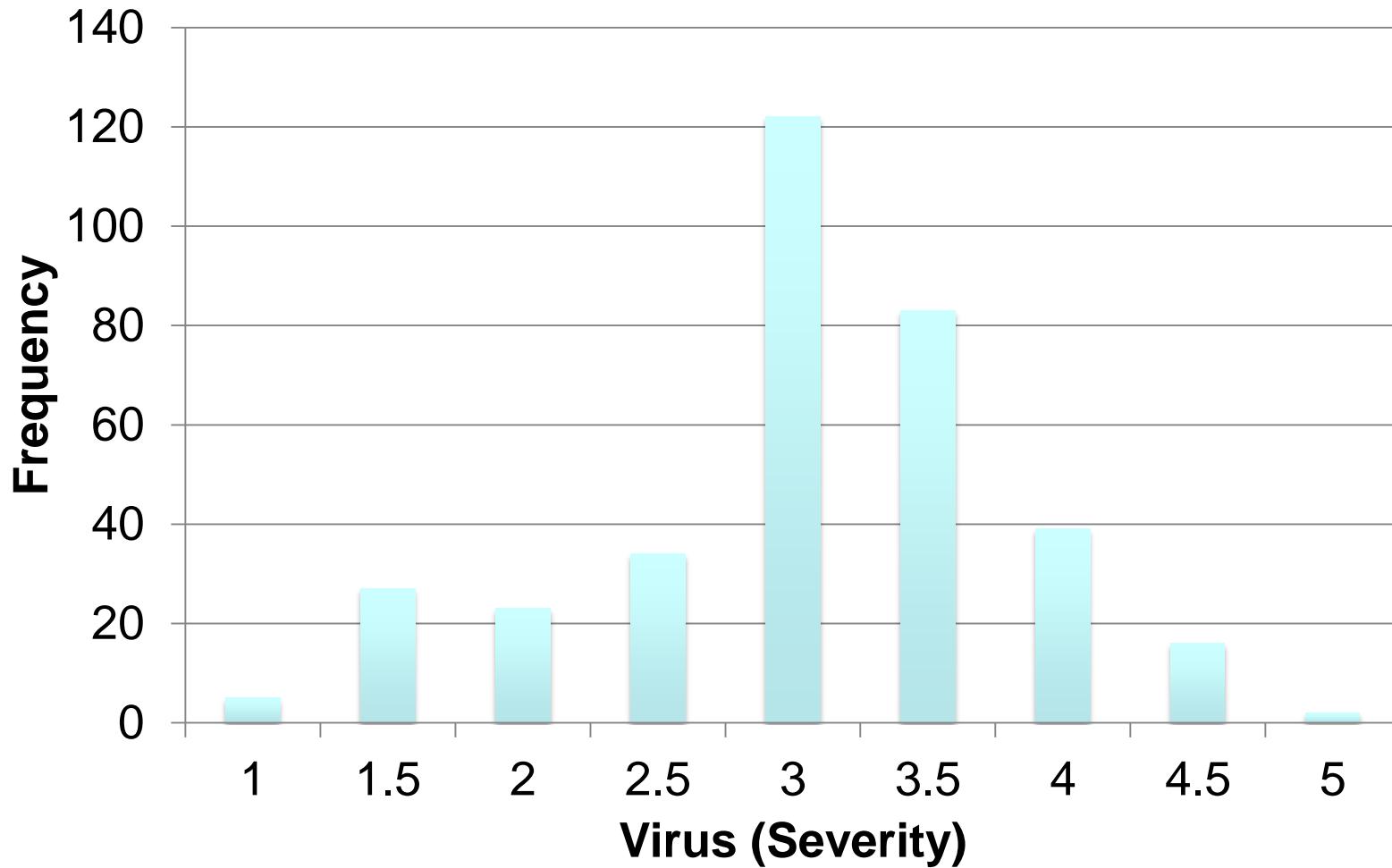
- About 400 bambara groundnut accessions
- Field evaluation at Minjibir, IITA Kano station
- Ridges spaced 75 cm apart
- Single row of 2 m
- Intra-row spacing was about 20 cm
- Three weeding and 2 insecticide spraying applied

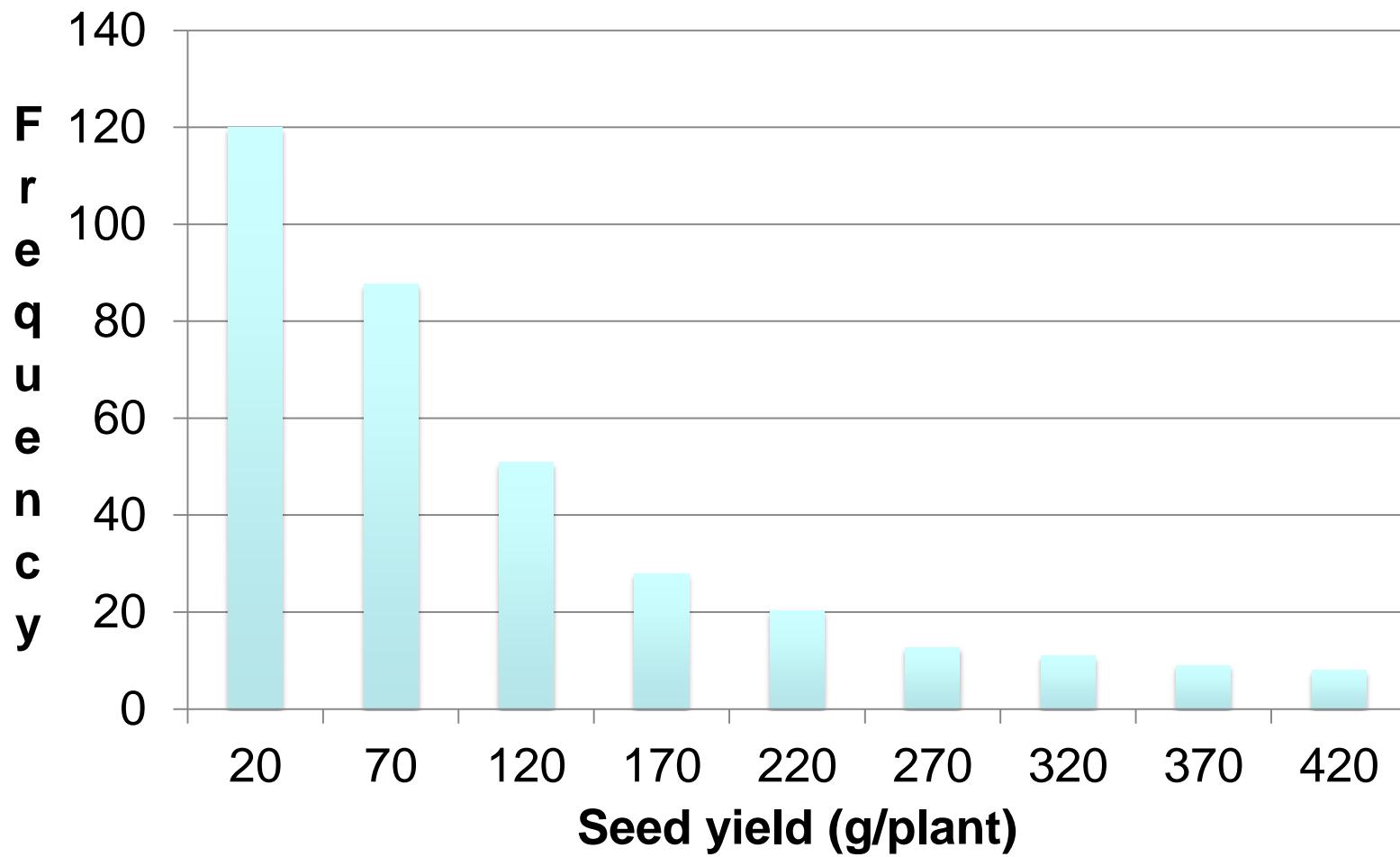
# SOME RESULTS







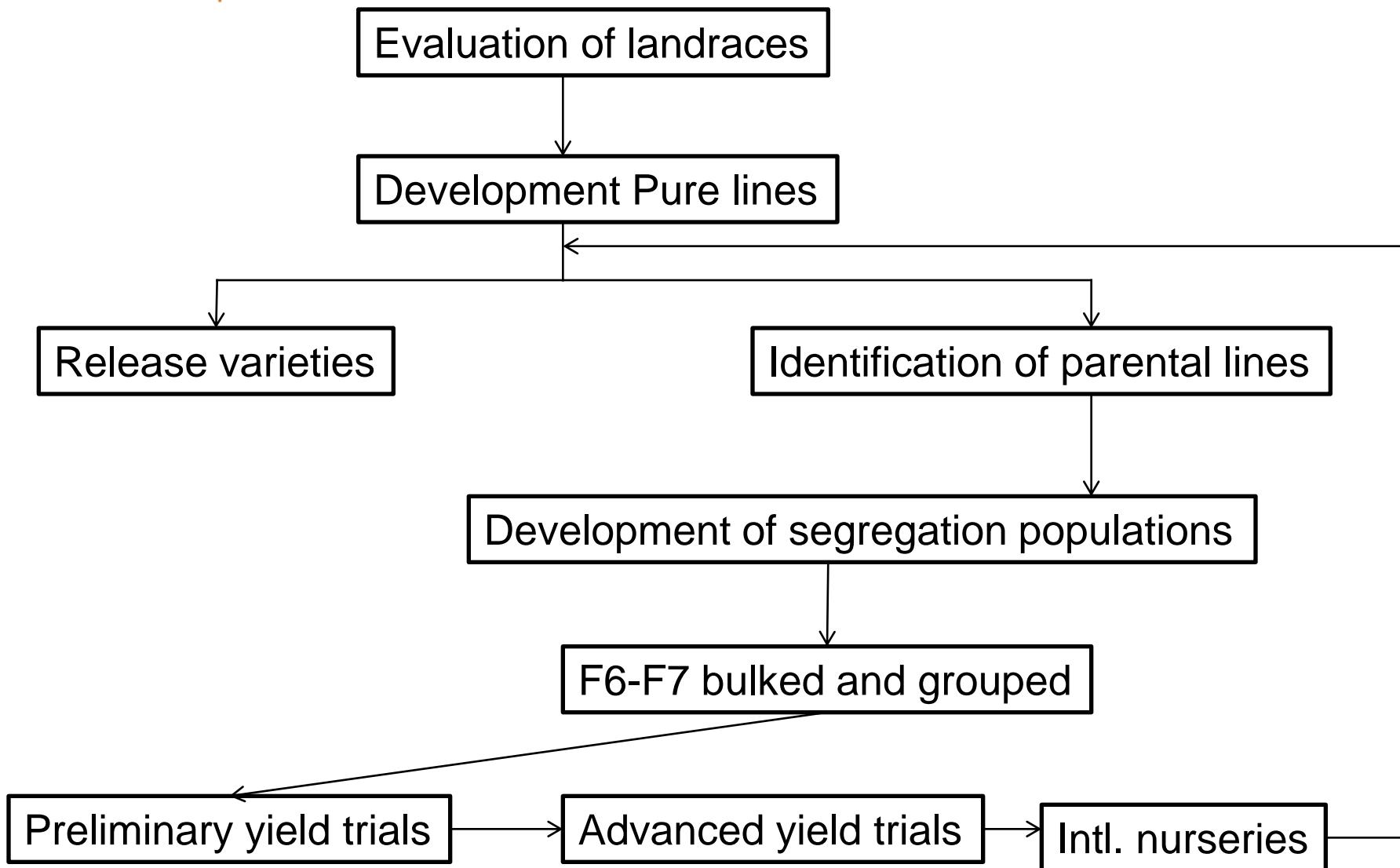




# Preliminary conclusion

- Agromorphological diversity of Bambara groundnut
- Challenges for biotic stresses
- Opportunities for yield increase
- Genetic improvement of Bambara groundnut

# FUTURE PROSPECTS



**Thank you for your attention  
and  
sincere gratitude  
to CFFRC for sponsoring our trip**