



PEQ growing and multiplication of Bambara groundnut germplasm

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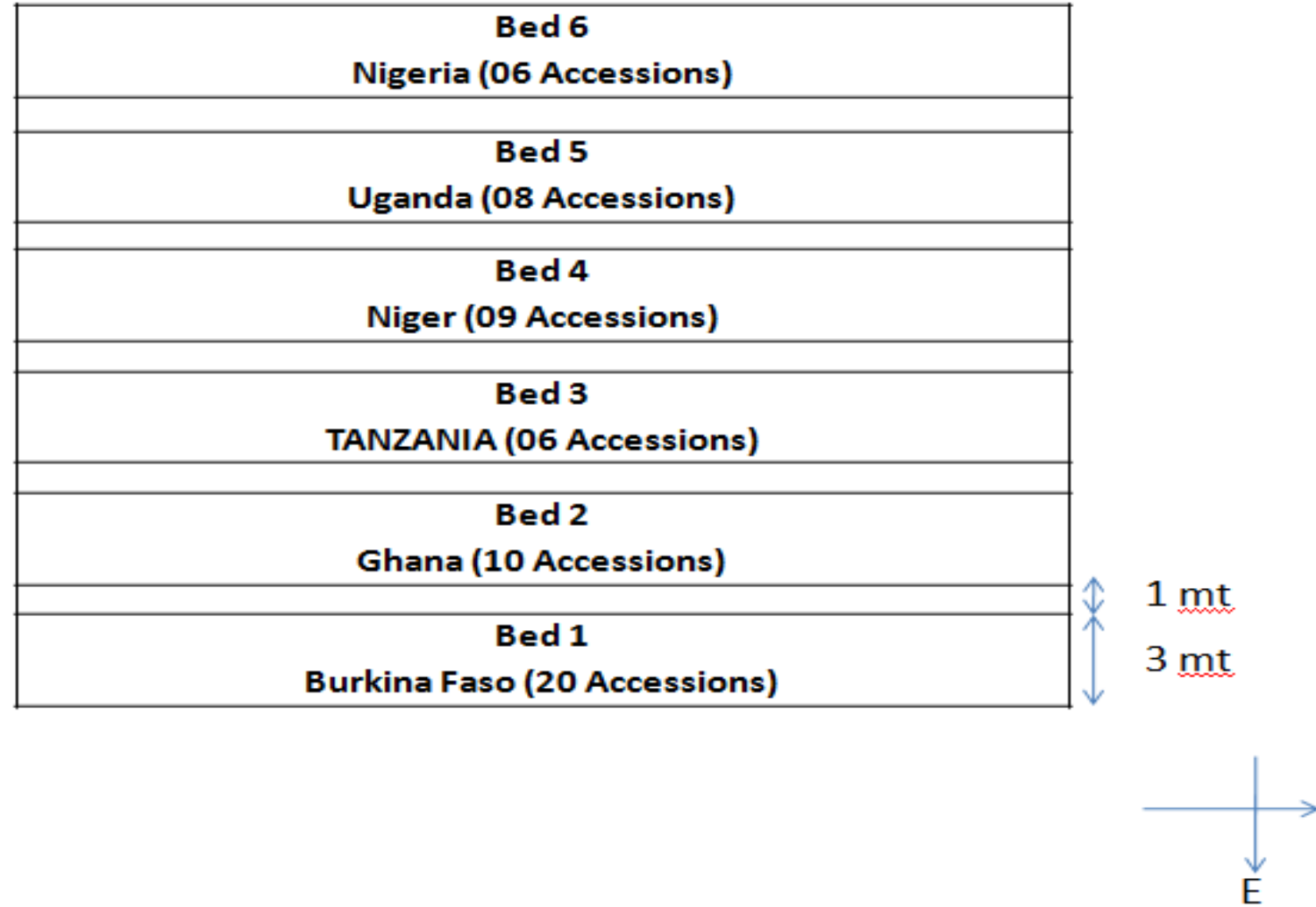


"Agricultural crop improvement for the relief of poverty, with a focus on legumes."



Layout

Season : **Kharif 2023**
Experimental Site : **ICAR-NBPGR, Hyderabad**
No of Accessions : **59 no.**



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Field view of the experiment



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Calendar of operations

S.No	Date	Operation
1	30-06-2023	Lines preparation and layout of the experiment
2	03-07-2023	Sowing
3	06-07-2023	Poles and 40 mesh insect proof net arranged for each block
4	10-07-2023	Germination of seed and seedlings observed
5	11-07-2023	First weeding (Manual)
6	12-07-2023	Germination percentage data taken
7	21-07-2023	Standing Water due to heavy rains for a week is drained out and ridges were made
8	24-07-2023	Multimicronutrient spray @ 2.5 ml/lit
9	04-08-2023	Photographs of one month old crop taken
10	07-08-2023	Days to 50% flowering data recording started
11	18-08-2023	Flood irrigation
12	21-08-2023	Second Weeding (Manual)
13	01-09-2023	Photographs of two months old crop taken
14	04-09-2023	Plant height data taken
15	11 to 13-09-23	Chlorophyll data; Terminal leaf shape, size and photos taken
16	25-09-2023	Few accessions are harvested in Burkina Faso consignment (Block-1)
17	03-10-2023	Harvesting started in Niger consignment (Block-04)
18	17-10-2023	Harvesting started in Ghana (Block 02) and Nigeria (Block-06) consignment
19	30-10-23 to 01-11-2023	Harvesting completed in Tanzania (Block 03) and Uganada (Block-05) consignment



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Weather data

	Average Temperature (°C)		Average R.H. (%)		Average Rainfall (mm)	Rainy days	Average Evaporation (mm)
	MAX.	MIN.	MAX.	MIN.			
June,2023	36.4	25.6	71.6	42.3	159.2	6	7.4
July,2023	29.0	23.3	88	71	378.4	14	4.0
August,2023	31.1	23.2	84.6	60.6	148.8	3	4.4
September,2023	30.0	22.5	90.0	68.0	270.8	14	3.7
October,2023							
November,2023							

Data Source: Meteorological observatory, Agril Research Institute, PJTSAU, Rajendranagar, Hyd



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Field preparations



Burkina Faso (20 Accessions)



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Ghana (10 Accessions)



@20 DAS



@30DAS



@60 DAS



@90DAS



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TANZANIA (06 Accessions)



@20 DAS



@30DAS



@60 DAS



@90DAS



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NIGER (09 Accessions)



@20 DAS



@30DAS



@60 DAS



@90DAS



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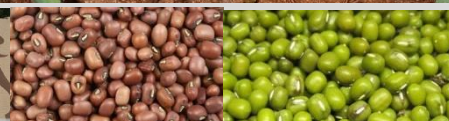
Uganda (08 Accessions)



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Nigeria (06 Accessions)



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Flowering

KVS 57



SARI-19M-BG2



NALBAM-6

cvdz-2



Isul Lu Iriokok

Sokoto



Leaf variability

Burkina Faso



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Ghana



Tanzania



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Niger



Uganda



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Nigeria



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Purple color stem, Purple Pods

NALBAM 6; NALBAM 22



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Green stem, Purple Pods - NALBAM 4



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Harvesting



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Pod Variability



Soumbanga



NALBAM-6



NALBAM-9



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Seed Variability



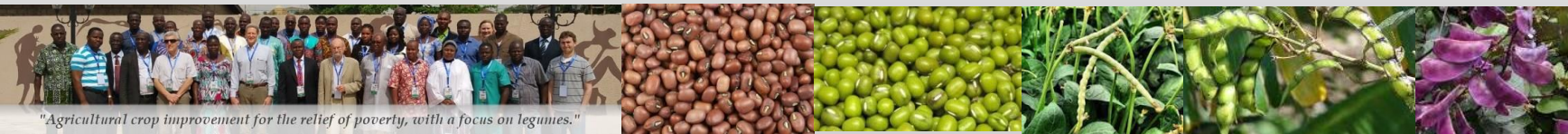
Soumbanga



NALBAM-6



NALBAM-9



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Dr Kuldeep Tripathi (Co-PI, STOL Project) Visit



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Data recording under progress for the following characters

- No of Kernels per pod and per plant
- Pod color and texture
- Seed Colour
- 100 seed weight



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Thank You



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