



# Tepary bean Germplasm Characterization and Seed Increase



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10 accessions of Tepary bean (*Phaseolus acutifolius*) imported from Institut de l'Environnement et, Recherches Agricoles (INERA), Burkina Faso (April 2022)

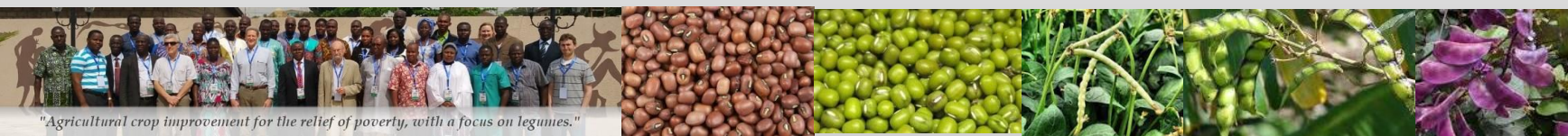
## Import of Tepary bean

17 accessions of Tepary bean (*Phaseolus acutifolius*) imported from University of California, Department of Plant Sciences, USA (July 2022)

EC1126747 G 40272  
EC1126748 G 40144C  
EC1126749 G 40112  
EC1126750 G 40144B  
EC1126751 G 40066  
EC1126752 G 40148  
EC1126753 G 40125  
EC1126754 G 40301  
EC1126755 G 40175  
EC1126756 G 40041

EC1131312 TARS TEP 23  
EC1131313 PI 440786  
EC1131314 PI 310801  
EC1131315 G 40068  
EC1131316 G 40006A  
EC1131317 G 40119  
EC1131318 G 40173A  
EC1131319 TARS TEP 22  
EC1131320 TARS-TEP-93

EC1131321 TARS-TEP-51  
EC1131322 TARS-TEP-58A  
EC1131323 TARS-TEP-97  
EC1131324 TARS-TEP-100  
EC1131325 TARS-TEP-101  
EC1131326 TARS-TEP-112  
EC1131327 TARS-TEP-32  
EC1131328 G 40200



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# Sowing Details (Tepary bean)

## Summer 2023 Trial

1. Date of Sowing - 17/03/2023
2. Total No. of Accessions - 10
3. Flowering Occurred - 9
4. Location - NBPGR Pusa Farm (CWRG),  
New Delhi

## Kharif 2023 Trial

1. Date of Sowing - 25/08/2023
2. Total No. of Accessions - 27
3. Flowering Occurred - 2
4. Location - NBPGR Pusa Farm, New Delhi



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# Descriptors of Tepary bean

S.No.	Trait	Description
1	EPV	Early Plant Vigour
2	D 50% F	Days to 50% Flowering
3	DPI	Days to 1st Pod Initiation
4	FC	Flower colour
5	IPC	Immature pod colour
6	LP	Leaf pubescence
7	MTLL (cm)	Mean terminal leaf length
8	MTLW(cm)	Mean terminal leaf width
9	M IN L (cm)	Mean internode length
10	M NPB	Mean number of primary branch
11	M P L (cm)	Mean pod length
12	M PEL (cm)	Mean peduncle length
13	MPC	Mature pod colour
14	MS/P	Mean seed per pod
15	MPH (cm)	Mean plant height
16	D 80% M	Days to 80% maturity
17	100 SW	100 Seed weight
18	SCC	Seed coat colour
19	CC	Cotyledon colour



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# Qualitative Traits of Tepary Bean (Summer 2023)

S. No.	Accession No.	EPV	FC	IPC	MPC	SCC	CC
1	G40041	3	Yellow	Green	2	5	Light Yellow
2	G40144C	3	Yellow	Green	2	6	Yellow
3	G40148	3	Yellow	Green	2	5	Light Yellow
4	G40301	1	Yellow	Green	2	5	Light Yellow
5	G40175	3	Yellow	Green	2	4	Light Yellow
6	G40066	3	Yellow	Green	2	4	Light Yellow
7	G40144B	3	Yellow	Green	2	6	Light Yellow
8	G40112	3	Yellow	Green	2	8	Yellow
9	G40272	3	Yellow	Green	2	5	Light Yellow



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# Quantitative Traits of Tepary Bean (Summer 2023)

S.No.	Accession No.	D 50% F	DPI	MTLL (cm)	MTLW (cm)	M IN L (cm)	M NPB	M P L (cm)	M PEL (cm)	MS/P	MPH (cm)	80% M	100 SW
1	G40041	59	63	3.33	1.90	3.97	4.67	6.40	2.93	5.33	68.57	87	10.41
2	G40144C	50	53	6.50	4.33	5.17	5.67	6.70	0.73	5.67	50.47	79	11.204
3	G40148	48	52	5.17	2.53	3.67	8.33	7.53	4.10	6.33	84.80	81	13.078
4	G40301	47	51	4.43	2.37	4.43	5.67	7.13	3.40	4.67	46.13	89	11.226
5	G40175	47	51	3.27	4.33	3.90	5.67	8.03	2.60	6.67	65.83	77	13.084
6	G40066	46	50	6.20	3.47	2.27	5.00	7.20	2.43	5.00	57.03	85	14.204
7	G40144B	46	50	5.17	3.13	4.60	6.33	7.87	4.47	6.33	95.50	87	11.684
8	G40112	47	52	7.77	5.20	5.27	6.33	7.43	8.50	5.33	124.83	89	13.4
9	G40272	48	52	5.37	3.60	2.23	8.33	6.53	3.23	5.67	93.37	95	8.544



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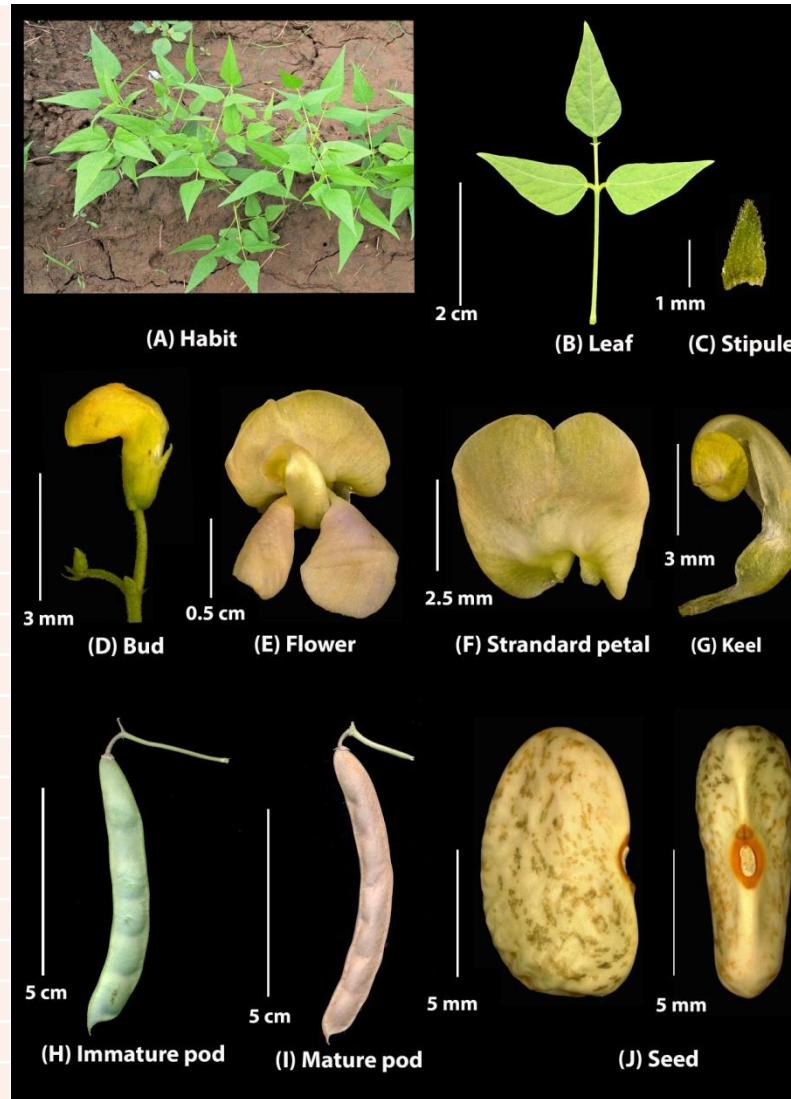


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# Qualitative Traits of Tepary Bean (Kharif 2023)

S.No.	Accession No.
1	Tars-32
2	G-40066
4	Tars tep-97
5	Tars tep-22
6	G-40175
7	G-40041
8	G-40068
9	Tars tep-58A
10	G-40119
11	PI-310801
12	Tars tep-101
13	Tars tep-51
14	Tars tep-112
15	Tars tep- 100
16	G-40144C
17	G-40148
18	Tars tep-93
19	G-40301
20	G-40112
21	G-40144B
22	G40200
23	G-40125
24	G-40006A
25	PI-440786
26	G40272
27	Tep-23



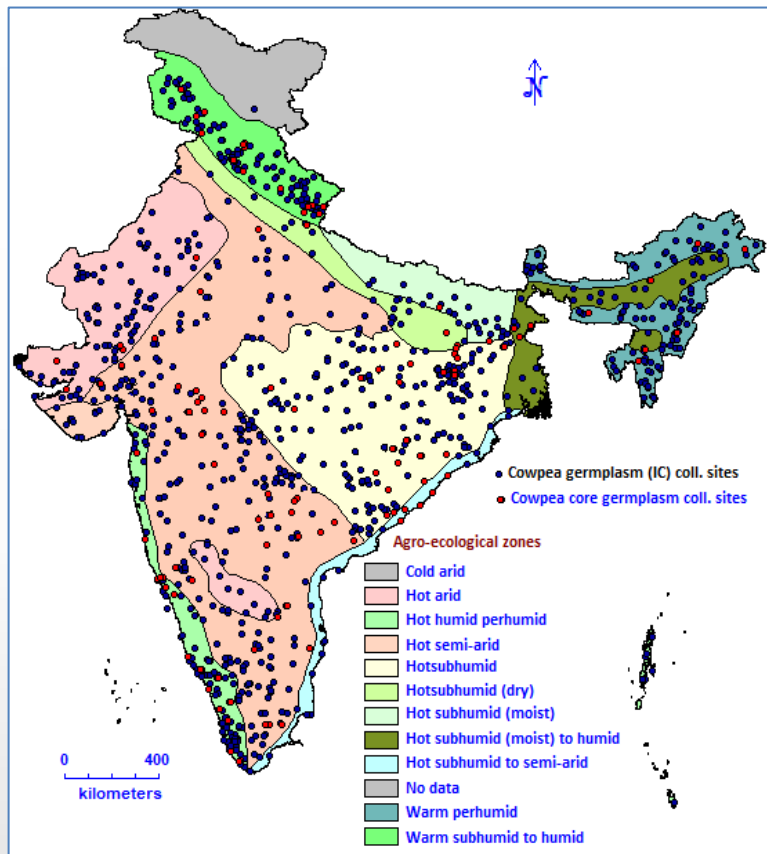
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# Cowpea Trait Specific Germplasm – Seed Supplied to Namibia



S.No.	Trait	Number of Accessions
1	Early maturity (<60 days maturity)	3
2	High protein content in seed	1
3	Erect, determinate, high yielding	4
4	Erect	3
5	Early, Erect	2
6	Early, erect, purple podded	2
7	Mungbean type pods	3
8	High 100 seed weight	1
9	Root rot resistant	1
10	Bruchid resistant	25
<b>Total</b>		<b>45</b>

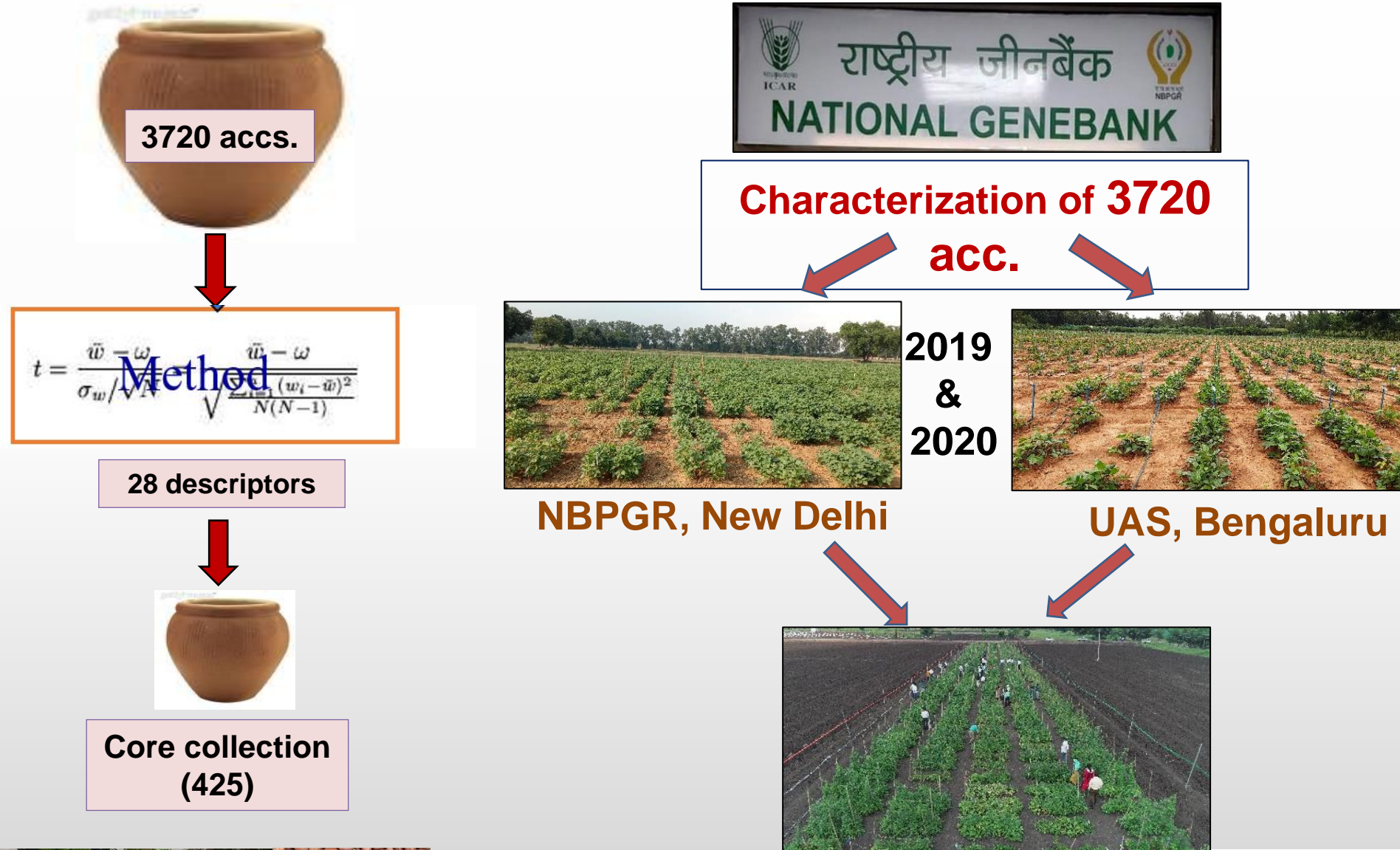


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# Characterization of INGB Cowpea Core Set (Part of DBT-NBPGR)



**Characterization of 3720 acc.**



**NBPGR, New Delhi**



**UAS, Bengaluru**



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रा.पा.आ.सं.ब्यूरो  
NBPGR



Thank You



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