

International Bean Yield and Adaptation Nursery (IBYAN)

The below tables give an overview of the materials distributed by CIAT, and the number of these materials that were used by national programs to develop varieties for release. This overview does not include the countless number of lines used by scientists worldwide for special studies in diverse disciplines to develop bean populations with desirable traits or varieties*.

* The real number of varieties released is much higher because several of these lines served as the basis for varieties released in more than one country (not reflected in tables), thus explaining why total horizontal sums are not exact.

Bush Bean Lines and Varieties of Different Market Classes Included in the IBYAN between 1976-1995 and Released as Varieties in Different Countries

Table 1. Summary of bush bean genetic materials tested in the IBYAN and the number of lines used to develop varieties, 1976–1995.

Source	Lines (no.)			
	Tested	Released as varieties		
		Latin America	Elsewhere	Total ^a
CIAT lines	1577	75	24	97
Germplasm bank (G no.) ^b	79	15	4	17
National programs	266	6	-	6
Total	1922	96	28	120

a. Includes real number of lines used worldwide. The use of each line was recorded only once.

b. G no.= those bean materials that have a G accession number in the germplasm bank held at CIAT

Statistics for Each Color Group

Table 2. IBYAN: Black market classes: Black, Black Turtle.

Source	Lines (no.)			
	Tested	Released as varieties		
		Latin America	Elsewhere	Total ^a
CIAT lines	205	31	-	31

Germplasm bank (G nNo.) ^b	28	4	1	4
National Programs	14	1	-	-
Total	247	36	1	35

a. Includes real number of lines used worldwide. The use of each line was recorded only once.

b. G no. = those bean materials that have a G accession number in the germplasm bank held at CIAT.

Table 3. IBYAN: White market classes: Navy, Small white, White Kidney, Marrow, Great Northern, and Alubia.

Source	Lines (No.)			
	Tested	Released as varieties		
		Latin America	Elsewhere	Total ^a
CIAT lines	191	5	3	7
Germplasm bank (G no.) ^b	11	3	1	3
National programs	54	1	-	1
Total	256	9	4	11

a. Includes real number of lines used worldwide. The use of each line was recorded only once.

b. G no. = those bean materials that have a G accession number in the germplasm bank held at CIAT.

Table 4. IBYAN: Cream-colored market classes: Mulatinho, Carioca, Cranberry, Pinto, Bayo.

Source	Lines (No.)			
	Tested	Released as varieties		
		Latin America	Elsewhere	Total ^a
CIAT lines	424	11	10	21
Germplasm bank (G no.) ^b	16	3	1	3
National programs	51	-	-	-
Total	491	14	11	24

a. Includes real number of lines used worldwide. The use of each line was recorded only once.

b. G no. = those bean materials that have a G accession number in the germplasm bank held at CIAT.

Table 5. IBYAN: Yellow market classes: Azufrado, Peruanos, Canario, Jalo, Manteca, Garbancillo, Jalinho, Liborino.

Source	Lines (No.)			
	Tested	Released as varieties		
		Latin America	Elsewhere	Total ^a
CIAT lines	66	2	1	3
Germplasm bank (G no.) ^b	4	1	-	1
National programs	82	-	-	-
Total	152	3	1	4

a. Includes real number of lines used worldwide. The use of each line was recorded only once.

b. G no. = those bean materials that have a G accession number in the germplasm bank held at CIAT.

Table 6. IBYAN : Pink market classes: Light Red Kidney, Red Kidney, Pink, Rosinha, Uribe Rosado, Andean, Miss Kelly, Flor de Mayo.

Source	Lines (No.)			
	Tested	Released as varieties		
		Latin America	Elsewhere	Total ^a
CIAT lines	113	4	2	6
Germplasm bank (G no.) ^b	6	1	-	1
National programs	18	-	-	-
Total	137	5	2	7

a. Includes real number of lines used worldwide. The use of each line was recorded only once.

b. G no. = those bean materials that have a G accession number in the germplasm bank held at CIAT.

Table 7. IBYAN: Red market classes: Small red, Red Mexican, Radical, Dark Red Kidney, Duva, Pompadour Nima/Calima (Red Pinto).

Source	Lines (No.)			
	Tested	Released as varieties		
		Latin America	Elsewhere	Total ^a
CIAT lines	575	22	8	29

Germplasm bank (G no.) ^b	10	3	1	3
National programs	41	4	-	-
Total	626	29	9	32

a. Includes real number of lines used worldwide. The use of each line was recorded only once.

b. G no. = those bean materials that have a G accession number in the germplasm bank held at CIAT.

Table 8. IBYAN: Other color market classes: Chumbinho, Tortola, Purple.

Source	Lines (No.)			
	Tested	Released as varieties		
		Latin America	Elsewhere	Total ^a
CIAT lines	3	-	-	-
Germplasm bank (G no.) ^b	4	-	-	-
National programs	6	-	-	-
Total	13	-	-	-

a. Includes real number of lines used worldwide. The use of each line was recorded only once.

b. G no. = those bean materials that have a G accession number in the germplasm bank held at CIAT.

Genetic Material not Included in the IBYAN

Table 9. Number of bush bean lines from CIAT and national programs (NP) released as varieties in different countries of Latin America (LA) and elsewhere, 1976–1999.

Seed color group	CIAT genetic material				NP genetic material			
	Advanced I Lines (coded)		NP selections in populations		Lines/Varieties (without G no.) ^a		Germplasm bank accessions (with G no.) ^a	
	LA	Elsewhere	LA	Elsewhere	LA	Elsewhere	LA	Elsewhere
Black	5	-	17	-	2	1	-	-
White	2	9	6	-	-	-	-	3
Cream	6	2	3	1	1	-	-	2

Yellow	2	1	-	-	-	-	-	-
Pink	1	2	-	-	1	-	1	-
Red	18	11	12	2	-	-	-	-
Other colors	-	5	-	-	-	-	-	-
Snap bean	4	1	-	-	-	-	-	-
Total	38	31	38	3	4	1	1	5
Total no. of lines releases as varieties^b : 116								

a. G no. = those bean materials that have a G accession number in the germplasm bank held at CIAT.

b. Includes real number of lines used worldwide. The use of each line was recorded only once.

Climbing Beans

Table 10. Climbing bean lines (growth habit IV) distributed by CIAT nurseries and released as varieties in different countries of Latin America (LA) and Africa, 1976–1999.

Seed color group	CIAT lines		Germplasm bank accessions		National program contribution	
	LA	Africa	LA	Africa	LA	Africa
White	-	2	1	1	-	-
Cream	-	1	2	-	1	-
Yellow	1	-	1	-	-	-
Pink	-	-	-	1	-	-
Red	1	2	1	1	-	-
Purple	1	-	-	-	-	-
Total	3	5	5	3	1	-
Total number of lines released as varieties^a : 17						

a. Includes real number of lines used worldwide. The use of each line was recorded only once