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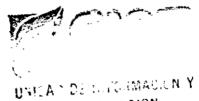
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INTERNATIONAL BEAN TRIALS

BROAD CLASSIFICATION OF CLAY INTERNATIONAL BEAN TRIALS

International Nurseries are experiments comprised of outstanding varieties, advanced lines, and germplasm accessions which are true breeding for key agronomic traits (growth habit, seed characteristics, maturity, etc.). All entries have data compiled from prior evaluations which qualify them for further testing under a wide range of environmental conditions.

International trials are uniform across locations and a nursery report is prepared and published every year.

All data from international trials are computarized and stored, allowing data retrieval for specific information pertaining to specific regions and situations.

<u>Breeding Nurseries</u> are trials distributed to selected collaborators who have the manpower and environmental and program conditions necessary for utilization of breeding materials. Trials are not uniform across locations but take into account the requirements of the national programs individually.

T. INTERNATIONAL REAR MURSERIES

CIAT International Bean Nurseries distributed from headquarters at Palmira are grouped in two broad categories:

- A. Nurseries formed by advanced lines classified according to market classes
- B. Specialized nurseries

CHOOSING THE RIGHT BEAN NURSERY FOR YOUR NEEDS

To help you decide the type of nursery you should request according to your needs, a brief description of the kinds of materials included in the two above-mentioned broad categories follows:

A. Nurseries formed by advanced lines classified according to market classes

Description: Lines included in these nurseries have resistances to at least two of the following seed-transmitted diseases:

- bean common mosaic virus (BCMV)
- common bacterial blight (CBB)
- rust
- anthracnose (ANT)
- angular leaf spot (ALS)

Potential users:

Breeders, agronomists, pathologists, entomologists, and any other bean specialist who is willing to test readyto-use non-segregating lines of any lines of any specific market class (see Table 1).

Types:

These nurseries are of two types:

- Observational Nurseries. Organized either by growth habit, market class, duration of growth period, or specific resistance to stresses, depending on specific requests.
- Uniform Yield Nurseries. Entries are grouped by market class, growth habit, and in some cases by climatic adaptation. Table 2 shows the complete list of yield trials available.

B. Specialized nurseries

Types:

Description: Nurseries for stress screening and identification of donor parents for specific traits. Nurseries include materials particularly useful for the objectives of the specific project, but they are not necessarily made up of lines with commercial grain types. The entries might not show resistance to other stresses. Potential These are specialized nurseries designed mears: to fit the needs of researchers engaged in specific projects (disease or insect resistance, drought, etc.). nurseries are directly organized by CIAT specialists and in most cases distribution is limited to researchers working with them in cooperative

DETAILED LISTING OF CIAT INTERNATIONAL BEAN NURSERIES

Disease and insect nurseries.

projects.

A. Nurseries formed by advanced lines classified according to market classes

YIELD IBYAN: International Bean Yield and Adaptation Nursery

GENERAL VEF: Bean Team Nursery

OBSERVATIONAL SBON: Snap Bean Nursery

B. Specialized nurseries

MAJOR DISEASE NURSERIES:

IBAT International Bean Anthracnose Trial

BALSIT Bean Angular Leaf Spot International Trial

VIB International Bean Nursery for Common

Bacterial Blight

IBRN International Bean Rust Nursery

MINOR DISEASE NURSERIES: (See Table 3)

INSECT NURSERIES:

VIA International Bean Apion Nursery

VIE International Bean Empoasca Nursery

GENERAL INFORMATION ABOUT THE INTERNATIONAL BEAN NURSERIES

NAME	1 ENTRIES	DURATION	
IBYAN	16	1 yr	
VEF	Variable	1 yr	
IBAT	100	2 yr	
BALSIT	100	2 yr	
VIB	100	2 yr	
IBRN	100	2 ÿr	
VIA	100	1 yr	
VIE	<30	1 yr	

II. BREEDING NURSERIES

Description: Include crossing blocks, segregating

materials, and adaptation nurseries according to each breeder's strategy.

Potential users:

These nurseries are distributed only to breeders engaged in cooperative projects

with CIAT breeders.

Types: Crossing blocks, segregating populations,

and adaptation nurseries.

Those interested in these nurseries should contact directly the CIAT breeder working for their particular geographical area:

Julia Kornegay: Andean Zone, Africa

Shree Singh: Southern Cone. Highlands of Mexico.

Asia

Stephen Beebe: Central America & the Caribbean,

Mexican lowlands, Southern Brazil

REQUESTS AND SHIPMENT POLICIES FOR INTERNATIONAL BEAN TRIALS

FORMAT TO REQUEST NURSERIES

Requests can be made to the Program Leader (Dr. Douglas Pachico) or directly to the scientist who is coordinating each nursery. If you work in a country where there is a CIAT Regional Program, please process your request through (or send a copy of it to) the Regional Coordinator (Table 4).

<u>Coordinator</u>	Type of nursery	Nursery name
Oswaldo Voysest	Advanced lines	VEF-IBYAN
Marcial Pastor Corrales	Fungal & bacterial diseases	IBAT-IBRN- BALSIT,etc.
César Cardona	Insects	VIA-VIE
Julia Kornegay	Breeding & BCMV	IBCMBRN
Stephen Beebe	Breeding	
Shree Singh	Breeding	

It is always advisable to include in your request the following information:

- Intended planting date
- Precipitation and temperature during growing season
- Approximate elevation (masl) of the experimental site
- Main limiting factors for bean production
- Characteristics of the requested material:

Growth habit

Seed color & size or market class if possible Resistance reaction desired for at most 3 of the following diseases: BCMV, CBB, rust, ANT, or ALS

- Shipping instructions:

Address (exactly as to be written in the seed package)

Special declaration, if any, in the phytosanitary certificate

Airport name and city of destination Telex or Fax No., if available

Collaborators are supplied with field books enclosed in the seed box.

PORWARDING DATES

Trials are dispatched from CIAT via air mail five times during the year according to the intended planting date:

Date of dispatch	Intended planting date
January	From March to April
March	From May to June
July	From September to October
September	From November to December
November	From January to February

DISTRIBUTION POLICY

CIAT makes its nurseries available free of charge to any recognized bean research institution. Due to limited seed availability CIAT cannot guarantee that all requests for nurseries will always be met.

SERD SOURCE FOR INTERNATIONAL DISPATCHES

All seed for international dispatches is produced under irrigation at "La Carambola-San Carlos," a twelve-hectare farm located at Vijes, 48 kilometers from CIAT headquarters. Seed production fields are inspected by quarantine officials of the Colombian Institute of Agricultural Research (ICA) who; if they approve the seed, issue the corresponding phytosanitary certificate for all seed dispatches.

				Alternel Ye Dames BESS	ding to region	
Color	Group 1	Market Class	Latin America	Africa	Wost Asia	175A/Canada/Europe
1.	White: plain	ALUBIA	Alubía	* * *	Horos	Lingot-Canellini
		CABALLERO	Bianco Grande, Caballero	Gros Stino	Seker	White Marrow
		CRISTAL	Cristal			
		FABADA				Fabada
		GREAT NORTHERN			Denneson	Great Northern
		HAVY	Arroz		Tombul	Pes, Navy
		SMALL WHITE	Blanquillo/Panamito			Small White
		MILLE KIDNER			Senetik	White Kidney
ia.	White	AET FOR-EAG				Soldier, Yellow-eye
2.	Cream-beige: plain	BAYO ARREÑONADO	Bayo Arriñonado			
		BAYO CILINDRICO	Bayo Cilindrico			
		BAYO GORDO	Baryo Gordo			•
		BAYO REDONDO	Bayo Redondo			
		SICO DE CURO	Bico de Ouro			
		MULATINHO	Hulatinho			
Za.	Cream-beige: apeckled	CARGAMANTO	Cargamento			
		CARTOCA	Carioca			
		CRANBERRY	Cacahuate	Speckled Sugar	Barbunye	Borletto, Cramberry
		OJO DE CABRA	Ojo de Cabre			
		PINTO	Pinto	Heltomnia		Pinto
		SHALL SUGAR		Karnyebum, Small Sugar		
		ZEBRA		Mukinge/Namurye, Zebra		
3.	Yellow: plain	LARGE YELLOW	Amerillo Grande			
		AZUFRADO	Azufræda			
		CAHARIO ECUATORIANO	Canario Bolón			
		CANARIO MEXICANO	Burro, Manteca, Jalo			
		CAMARIO PERUANO	Azufredo Perumo			
		SMALL YELLOW	Amerillo Pequeño	Doré de Kirundo		
		GARBANCILLO	Jalinho			

				Alternative rames accord	ing to region	
ol or	Group ¹	Nerket Class ²	Latin America	Africa	West Asia	USA/Canada/Eurspe
Sa.	Yellow: speckled	LIBORINO	Liborino	Orunyumba		
k.	Brown-murbon	BROWN MAROON		Brown Marcon		
5.	Pirk: plain	LIGHT RED KIDNEY PLAK				Light Red Kidney Pink
		ROSINKA	Rosita, Rosinha			
5a.	Pink: speckled	FLOR DE MAYO	Flor de Hayo			
		MISS KELLY	Miss Kelly, Andino Sabanero	Capira		
6.	Red: plain	CANADIAN WONDER		Cyunu, Canadian Honder		
		DARK RED KIDNEY				Dark Red Kidney
		RADICAL	Bola Roja, Radical	Kayinja		
		SANGRETORO	Sangretoro	Red Haricot		
		RED HEXICAN SMALL DARK RED, OPAGKE		Red Maricot		Red Hericot
		SMALL DARK RED, SHINY				
		SHALL LIGHT RED, OPAQUE				
		SMALL LIGHT RED, SHINY		Massi red		
		SMALL RED, SHIMY				
še,	Red: speckled	CALIMA	Cat inn	Rose Coco-Kabele		
	•	GUAL I	Gunt f	Rose Coco		
		POMPADOLIR	Pompadour	Rose Coco		
		TUNDAMA	Tundeme	Rose Coco		
7.	Purple	HORADO	Monado	Kemput ike		
		HVEZ1 MOJA		Mwezi Noja		

			***************************************	Alternative names according to region	ng to region	
ž	Cotor Group	Harket Class	Latin America	Africa	West Asia	USA/Canada/Europe
ej.	Bit ack	Ikinimba NEGRO, OPAQUE NEGRO, SHINY	Preto/Caraota Hegra Megro, opaqua Megro, shiny	Ikinistos		Black Turtle Saup
o.	Others	COSCORRON Intures Tortola Likuronoron	Coscorrón Tórtola	fryturba Ur-bonobono		
30.	Snap beens (habichuelas) ROUMD-PCDOED FLAT-PCDED HAX	SCHIP - PCDDED FLAT - PCDDED WAX				Roseno
= ,=	1 Numbers refer to the nine CIAT 2 Name adopted by CIAT	the nine CIAT color groups.				

Table 2. List of yield trials (IBYAN) available.

	Climates	and	trial	identi	fication
--	----------	-----	-------	--------	----------

Market class

BUSH BEAM

Moderate warm & m	edium climate	
2-8900 A		Cranberry
2-8900 C	Cream-striped beans	Carioca
2-8900 D	Cream	Mulatinho
5-8900 A	Pink beans	Red Kidney
5-8900 B	Pink-mottled beans	Miss Kelly/Capira
6-8900 A	Red beans	Dark Red Kidney
6-8900 B	Red beans	Small Red
6-8900 C	Red-mottled beans (6M)	Rose Coco/Calima
6-8900 D	Red-mottled beans (7M)	Rose Coco/Guali
6-8900 E	Red-mottled beans (6M)	Pompadour
8-8900 A	Black beans	Black Turtle
Medium climate		
1-8900 A	White beans	Alubia/White Kidney
1-8900 B	White beans	Great Northern & Whites
1-8900 C	White beans	Navy/Small White
2-8900 B	Cream-mottled beans	Pinto
3-8900 A	Yellow beans	Canary Yellow
Moderate-cool cli	mate	
6-8900 F		Various types

CLIMBING BEANS

Moderate-cool clim	<u>ate</u>
2-8900 E	Cream-mottled beans
3-8900 B	Yellow and white beans
6-8900 G	Red and Red-mottled beans

Cargamanto
Liborino & Panamito
Radical/Calima
Negro

8-8900 B Black beans Neg

Table 3. Minor disease nurseriesa.

Nursery	name	No. of entries
BRRIN	Bean Root Rot International Nursery	50
VINFO	<u>Fusarium oxysporum</u> Bean Wilt International Nursery	30
VIPRS	<u>Rhizoctonia solani</u> Bean Rot International Nursery	40
MOBLAF	Bean White Mold International Nursery	46
VIMP	<u>Macrophomina phaseolina</u> International Nursery	30
IBABN	International Bean Ascochyta Blight Nursery	21
IBNHB	International Bean Nursery for Halo Blight	40
IBCMBRN	International Bean Common Mosaic/ Black Root Nursery	98

^a For distribution only to special project collaborators. Duration of each nursery is two years.

Table 4. CIAT Regional Bean Programs.

Regional Program	Coordinator	Address
Eastern Africa	Roger Kirkby	ILCA Attn: CIAT Bean Programme P.O. Box 5689 Addis Ababa, Ethiopia
Central Africa	Urs Scheidegger	ISAR/Rubona Projet CIAT B.P. 259 Butare, Rwanda
Southern Africa	David Allen	SADCC/CIAT Regional Programme on Beans in Southern Africa Selian Research Centre P.O. Box 2704 Arusha, Tanzania
Central America & Caribbean	Michael Dessert	CIAT/IICA Apartado 55, 2200 Coronado San José, Costa Rica
Brazil & Southern Cone	Michael Thung	EMBRAPA/CNPAF Caixa Postal 179, 74.000 Goiánia, Goiás, Brasíl
Andean Region	Guillermo Gálvez	CIAT/IICA Apartado 14-0185 Lima 14, Perú



Telex no.

Ixpe	Hame	Seed color or Market class	Pod shape	Growth habit	Climate	Resistance to 3 diseas	No. es se
ADVANCED LINES							
General observational	VEF					****	

	SBON		•				-
Yield	ISYAN						
							_
SPECIALIZED MURSERIES							
Diseases	IBAT Balsit						***************************************
	VIB						
	IBRN BRRIN						
	VIMFO						
	VIMPRS HOBLAF						
	AIND						
	ibabn Ibnhb						
Insects	VIA VIE						***************************************
BREEDER'S MARSERIES							
Crossing blocks							
Segregating populations Adaptation nurseries							
·					***************************************		**********
Shipping instructions:			Gene	ral informat			
Address				Planting da	ite		
				Average ten	perature in	growing season	
1111				Average rat Attitude (n	infail in gr masi)	owing season	
Airport city				Main diseas			

fax no.



FORMAT FOR SEED REQUEST

Type	Name	Seed color or Market class	Pod <u>shape</u>	Growth habit	Climate	Resistance to 3 diseases	No. of sets
ADVANCED LINES							
General observational	SBON						
Yìeld	LBYAN						
Heta	ISTAR			***************************************			***************************************
SPECIALIZED MURSERIES				***************************************			
Diseases	IBAT BALSIT VIB IBRN BRRIN VIMFO VIMPRS MOGLAF VIMP IBABN IBNHB						
Insects	AIE AIV						
BREEDER'S NURSERIES							
Crossing blocks Segregating populations Adaptation nurseries							
Shisoing instructions:			Genera	l informati	<u>90</u> 1		
Address	****		P	lanting dat	*		
******	***************************************		*	iverage rain Ultitude (ma	fall in gro sl)	growing season	
Special declaration in P (circle and include stat	hytosanitary Certificate Y	'es No	 	lain disease	s		
Telex no.	fax no.						