A Catalogue of Some Musa **ITC Reference Collections** national **Grown in the Philippines**

LS Gueco, FV Corpuz, OO Silvestre, FFM Silva, FM Dela Cueva, Al Regner, EG Fabregar, VGO Sinohin, AB Molina, Jr.









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INTRODUCTION

Bananas are among the most popular fruit in the world that are being produced as important staple foods and commodities in more than 130 countries and territories across tropical and subtropical regions. Majority of producers are small hold farmers, which accounts less than 15 percent of the global production of more than 144 million metric tonnes (FAOSTAT, 2013).

The International Transit Centre (ITC) otherwise known as Global Musa Germplasm Collection managed by Bioversity International holds the world's largest collection of bananas that represents an extensive proportion of known gene pool. The collection contains more than 1,500 accessions of edible and wild species of banana. The accessions are kept in vitro (tissue culture or cryopreservation) to ensure long-term conservation of the collection.

Characterization is necessary to record distinctly identifiable traits, which are generally important to breeders and researchers for maximum utilization and crop improvement. This is done for an easy and quick discrimination of phenotypes and to distinguish accessions within species. Characterization also facilitates in determining true-to-type samples and detection of mislabelled, misidentified, or duplication that done to important keep a check on the genetic stability of the collections that are susceptible to somaclonal variation. Since these accessions are kept for a long time, field verification should be done to ensure true to typeness of the germplasm in conservation.

Cultivated varieties are of great importance worldwide due to its commercial and nutritional value. Understanding on genetic and morphological relationships and diversity between cultivars would assist in conservation and breeding strategies in order to develop cultivars resistant to biotic and abiotic stresses. Banana cultivars (edible *Musa spp.) exhibit various levels of ploidy and genomic constitution that originated from two* wild diploid subspecies of *Musa acuminata (A genome) and Musa balbisiana (B* genome) with their hybrids and polyploids. According to Manzo-Sánchez *et al. 2015,* morphological data have suggested that *Musa is diverse, with well-defined characters* giving a number of indicators of its genome constitution.

In accordance to one of the proposed outputs in the Global Conservation Strategy for Musa developed in 2006 that is: "genetic diversity is comprehensively characterized and documented, taxonomy is harmonised, and collections are rationalized", a minimum set of descriptors and photos was agreed upon by the Taxonomy Advisory Group (TAG) to field verified accessions from ITC. The minimum set of descriptors for bananas aims to establish a standardized procedure for a routine morphological characterization of banana plants which provides instructions on how to document with photos the most highly discriminating descriptors.

Through the project of Bioversity International entitled "Assessment of Musa Genetic Resources for their Host Reaction to *Fusarium oxysporim f.sp. cubense Tropical* Race 4 (Foc TR4), towards Understanding the Genetic Base of Host-Pathogen Interactions", 42 Musa accessions of different genomes and subgroups from the International Transit Centre (ITC) were requested and mass propagated at Lapanday Foods Corporation, Davao City. These ITC accessions were then planted in the field in Davao City along with varieties of local and Giant Cavendish tissue-culture variant (GCTCV) to investigate Foc TR 4 resistance within the genepool which also gave way to the characterization of these diverse *Musa accessions*.

This catalogue includes 25 ITC Musa accessions from different subgroups. The minimum set of morphological descriptors and photos were utilized with little modification. Supplemental information on the disease reaction of the accessions against Fusarium Wilt (Foc TR4) and Banana Bunchy Top Virus. With the existing characterization data from different researches and institutions, this characterization aims to assist in distinguishing highly heritable characters and the identification of plant descriptors that vary less in all environments.

METHODOLOGY

Forty-two *Musa accessions of different genomes and subgroups from the* International Transit Centre (ITC) and 17 additional varieties of local and Giant Cavendish tissue-culture variant (GCTCV) from the Institute of Plant Breeding (IPB) and Lapanday Foods Corporation (LFC) were requested and mass propagated at Lapanday Foods Corporation in Davao City for planting and field evaluation. Of these, 25 ITC accessions were characterized in the experimental field of Lapuy, Davao City, Philippines.

However, seven ITC accessions failed to survive during the micropropagation stage namely: Kamaramasenge (AB), Honduras (balbisiana), Pisang Palembang (AAB), Foconah (AAB), Namwa Khom (ABB), and Menei (Fe'i). While varieties Paliama (acuminata), *Musa maclayi ssp. maclayi, and Tomolo (AA) showed high mortality in the* field. Rooted meriplants were grown and maintained in screenhouse for two months prior to field planting.

Field planting was done between June to October 2014 in an abandoned farm in Lapuy, Davao City. The field has a history of high incidence of Fusarium oxysporum f.sp. Cubense (*Foc*) TR4. Ten seedlings were planted per plot with 10 replicates for each accession using Randomized Complete Block Design (RCBD). The plants were managed following the recommended agricultural practices such as fertilization, irrigation, pest and disease control and weeding. Chopped *Foc* TR4-infected pseudostem and 250 ml spore suspension with 7.5 x 10 4 spores per ml were incorporated into the soil to ensure uniform *Foc* inoculum. First observation of symptom appearance was done three months after planting and symptomatic plants were then monitored for another three months from the time of first symptom appearance. The Foc TR4 resistance of the Musa accessions were rated based on six classifications: (1) Highly resistant-0% infection, (2) Resistant-1 to 5%, (3) Moderately Resistant-5 to 15%, (4) Moderately Susceptible- 15 to 50% (5) Susceptible- 50 to 85% and (6) Highly Susceptible- >85% infection. Data on BBTV incidence and percent mortality was also observed and recorded.

Since 10 ITC accessions failed to survive, only 32 accessions were characterized. Plant characterization was conducted from August 2015 to March 2016 with at least two months interval. This is why only 25 ITC accessions were included in this catalogue. The rest of the accessions were not characterize fully using the minimum descriptors list due to the difference in plant stages, seven of the accessions were not in the fruiting or harvesting stage during the field visit and at the time of characterization. The following accessions were not characterized: Pisang Rajah, Pisang Mas, Leite, Petite Naine, Gros Michel, Gran Enano, and Pisang Berangan.

This catalogue was made as complete as possible but some gaps still exist. There were instances that photos were included but characterization data were not available since some of the accessions were harvested days earlier than the time of characterization. For the characterization data such as color of the plant parts (especially the male flower) – this should be taken at the time of harvest for uniform and accurate observation. Some photos without quantitative characters were included in the catalogue. These photos were taken before the characterization period. These accessions had gone fruiting stage and only qualitative characters could be extracted. It should be noted that characterization has been made several times wherein some of the accessions where characterize twice. The characterization data included in every accession were characters that occur predominantly among the plants with the same accession codes. Morphological characterization using the standard descriptors and the minimum descriptors made by TAG was done but with some modifications and revisions.

PASSPORT DATA

Table 1. List of Characterized ITC Reference Accession
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ITC CODE	ACCESSION NAME	GENOME	SUBGROUP	COLLECTION	DONOR COUNTRY	ACCESSION CODE
ITC 0712	AAcv Rose	AA		CIRAD	France	11.04.20.105.025
ITC 1027	Asupina	Fe'l group	÷	QDPI	Australia	PNG361
ITC 0361	Blue Java	ABB	Ney Mannan	SOPACOM	Fiji	
ITC 0253	Borneo	AA	microcarpa	CIRAD	France	11.04.01.006.003
ITC 0249	Calcutta 4	acuminata	burmaniccoides	CIRAD	France	II.04.01.003.001
ITC 0767	Dole	ABB	Bluggoe	IRFA	Guadeloupe	II.04.32.001.005
ITC 0769	FiguePommeGeante	AAB	silk	IRFA	Guadeloupe	II.04.31.007.001
ITC 0081	lgitsiri (Intuntu)	AAAh	Mutika-Lujugira	IRAZ	Burundi	BIZ 095
ITC 0662	Khai Thong Ruang	AAA	Ibota	CIRAD	France	11.04.30.005.002
ITC 0084	Mbwazirume	AAAh	Mutika-Lujugira	IRAZ	Burundi	BIZ 090
ITC 1483	Monthan	ABB	Monthan	CIRAD-FLHOR	Guadeloupe	II.04.32.003.001
ITC 0109	Obino L'Ewai	AAB	Plantain	IITA	Nigeria	NGA-59
ITC 0672	Pa (Rayong)	acuminata	siemea	CIRAD	France	II.04.01.001.002
ITC 0609	Pahang	acuminata	malaccensis	IRFA	Guadeloupe	II.04.01.005.001
ITC 0472	Pelipita	ABB	Pelipita	FHIA	Honduras	FHIA II-93; 331
ITC 1441	PisangCeylan	AAB	Mysore	CIRAD	Guadeloupe	
ITC 0312	PisangJariBuaya	AA	Pisang Jari Buaya	FHIA	Honduras	FHIAII-320; 91
ITC 1121	Pisang Lilin	AA		IRFA	Guadeloupe	II.04.20.001.003
ITC 0962	Prata Ana	AAB	Pome	IRFA	Guadeloupe	II.04.31.009.013
ITC 0575	Red Dacca	AAA	Red/Green Red	QDPI	Australia	MHRS TC code 30.25; banana register N C32
ITC 0245	Safet Veichi	AB	Ney Poovan	CIRAD	France	II.04.21.001.001
ITC 0123	Simili Radjah	ABB	Peyan	IITA	Nigeria	CIV-132
ITC 1120	Tani	balbisiana	IND bal 101	IRFA	Guadeloupe	II.04.02.101.001
ITC 0825	Uzakan	AAB	Iholena	QDPI	Australia	PNG196
ITC 1177	Zebrina	acuminata	zebrina	IRFA	Guadeloupe	II.04.01.007.001

AACV ROSE

ITC-code: ITC0712 Genome: AA Subgroup: * Collection-Donor Country: CIRAD-France Accession Code: CIRAD II.04.20.105.025 Remarks: Pink purple to red pseudostem and petiole margin; Lengthily pointed fruit apex Reaction to diseases:

> •FOC TR4 : Highly resistant : 3.33 % Infection •BBTV

MORPHOLOGICAL CHARACTERISTICS

PLANT GENERAL APPEARANCE Leaf habit: Intermediate

PSEUDOSTEM CHARACTERISTICS

Pseudostem height: 308 cm Pseudostem girth: 33 cm Pseudostem color(exposed): Pink-purple Pseudostem color(unexposed): Pink-purple Sap Color: Milky Wax on leaf sheaths: Moderately waxy

PETIOLE/MIDRIB/LEAF CHARACTERISTICS

Blotches at the petiole base:	Moderate blotching
Blotches color petiole base:	Black
Petiole canal of the third leaf :	:Straight w/ erect margins
Petiole margin(winged):	Winged
Petiole margin(clasping):	Not Clasping
Petiole margin color:	Pink-purple
Edge of petiole margin:	With color line along
Leaf blade length:	204 cm
Leaf blade width:	44 cm
Petiole length:	58 cm
Shape of leaf blade base:	Both sides pointed
Midrib ventral surface (color)	: Medium Green
Cigar leaf outer surface(color)): Green

INFLORESCENCE/MALE BUD CHARACTERISTICS

Empty nodes on peduncle:	One
Peduncle color:	Green
Peduncle hairiness:	Hairless
Bunch position:	Hanging at 45 ⁰ angle
Bunch shape:	Asymmetrical
Bunch Appearance:	Lax
Rachis position:	With a curve
Male rachis appearance:	Neutral flowers on 1 to few
hands only near the b	unch; rest of the stalk is bare
Male bud shape:	Skinny
Male bud size at harvest:	L-18.08 cm; W-5.82 cm

BRACT CHARACTERISTICS

Bract base shape:	Large shoulder
Bract base apex (flatten):	Pointed
Bract imbrication:	Moderately imbricated
Bract external face (color):	Red-purple
Bract internal face (color):	Orange red
Male bract shoulder:	High (0.19)
Male bract lifting:	Lifting two or more at a time
Bract behavior before falling	g: Revolute

MALE FLOWER CHARACTERISTICS

Compound tepal basic color:	Cream
Compound tepal Lobe color:	Bright Yellow
Anther color:	Yellow

CROP CYCLE

Bunch weight:	6.6 kg
Peduncle Weight:	1.45 kg
Number of hands:	14
Number of fruits:	147
Functional leaves at harvest:	6

FRUIT CHARACTERISTICS

Fruit shape:
Fruit apex:
Transverse section:
Flower relicts at fruit apex:
Fruit pedicel length:
Fruit pedicel width:
Fusion of the pedicels:
Ripe fruit peel color:
Unripe fruit peel color:

Curved shaped Lengthily pointed Slightly ridged Persistent flower relicts ≥21 mm 5-10 mm No visible sign of fusion Yellow Medium Green

Hands			Middle Fruit			
Hand No.	No. of		Length Width		Pedicel (cm)	
	(kg)	fingers	(cm)	(cm)	L	W
1	0.65	17	10.05	2.45	3.03	1.85
2	0.55	15	10.97	2.22	3.35	0.83
3	0.55	15	10.40	2.32	3.05	0.95
4	0.45	12	11.05	2.54	1.93	0.86
5	0.4	11	10.60	2.50	3.02	0.82
6	0.4	10	10.05	2.30	2.85	0.75
7	0.4	10	10.56	2.52	3.05	0.83
8	0.35	10	10.70	2.35	2.55	0.85
9	0.3	9	10.38	2.25	3.09	0.81
10	0.3	9	10.05	2.42	2.25	0.82
11	0.3	10	9.42	2.22	2.35	0.82
12	0.25	9	9.92	2.23	2.39	0.92
13	0.2	8	9.22	2.12	0.98	0.78
14	0.05	2+6(a)	7.49	2.20	1.92	0.92
Total	5.15	147+6(a)				
Mean	0.37	11	10.06	2.33	2.56	0.92

*-no data available a-aborted

AACV ROSE



ASUPINA

ITC-code: ITC1027 Genome: Fe'i Subgroup: * Collection-Donor Country: QDPI-Australia Accession Code: PNG361 Remarks: Orange-red ripe fruit peel; yellow bract; beige-pink pulp color at maturity; 4 anther Reaction to diseases:

•FOC TR4 : Highly resistant

•BBTV : 30.00 % Infection

MORPHOLOGICAL CHARACTERISTICS

PLANT GENERAL APPEARANCE Leaf habit: Drooping

PSEUDOSTEM CHARACTERISTICS

Pseudostem height:234 cmPseudostem girth:28 cmPseudostem color(exposed):Light GreenPseudostem color(unexposed):Watery greenSap Color:MilkyWax on leaf sheaths:No visible sign

PETIOLE/MIDRIB/LEAF CHARACTERISTICS

Blotches at the petiole base:	Sparse blotching
Blotches color petiole base:	Light brown
Petiole canal of the third leaf	:Open with margins spreading
Petiole margin(winged):	Winged
Petiole margin(clasping):	Not Clasping
Petiole margin color:	Green
Edge of petiole margin:	Without color line along
Leaf blade length:	195 cm
Leaf blade width:	53 cm
Petiole length:	40 cm
Shape of leaf blade base:	Both sides rounded
Midrib ventral surface (color)	: Light Green
Cigar leaf outer surface(color): Light Green

INFLORESCENCE/MALE BUD CHARACTERISTICS

Empty nodes on peduncle:	Two
Peduncle color:	Green
Peduncle hairiness:	Hairless
Bunch position:	Erect
Bunch shape:	Truncated
Bunch Appearance:	Lax
Rachis position:	With a curve
Male rachis appearance:	Bare
Male bud shape:	Skinny
Male bud size at harvest:	L=24.50 cm; W=7.00 cm

BRACT CHARACTERISTICS

Bract base shape:	Small shoulder		
Bract base apex (flatten):	Intermediate		
Bract imbrication:	Moderately imbricated		
Bract external face (color):	Yellow to geen		
Bract internal face (color):	Yellow with orange shade		
Male bract shoulder:	Large (0.30)		
Male bract lifting:	Lifting two or more at a time		
Bract behavior before falling: Not Revolute			

MALE FLOWER CHARACTERISTICS

Compound tepal basic color	r: Yellow
Compound tepal Lobe color	: Yellow
Anther color:	Cream

CROP CYCLE

Bunch weight:	1.80 kg
Peduncle Weight:	0.80 kg
Number of hands:	4
Number of fruits:	23
Functional leaves at harv	vest: 1

FRUIT CHARACTERISTICS

Fruit length:	≤15 cm (11.00 cm)
Fruit width:	4.00 cm
Fruit shape:	Straight
Fruit apex:	Blunt-tipped
Transverse section: Pro	onounced ridges
Flower relicts at fruit apex	: Without flower relicts
Fruit pedicel length:	≥21 mm (37mm)
Fusion of the pedicels:	No visible sign of fusion
Ripe fruit peel color:	Orange-red
Unripe fruit peel color:	Dark Green
Pulp color at maturity:	Beige-pink

*-no data available

ASUPINA



BLUE JAVA

ITC-code: ITC0361 Genome: ABB Subgroup:Ney Mannan Collection-Donor Country: SOPACOM-Fiji Accession Code: *

Remarks: Silvery unripe fruit peel color Reaction to diseases:

•FOC TR4 : Susceptible •BBTV : 0.67 % Infection

MORPHOLOGICAL CHARACTERISTICS

PLANT GENERAL APPEARANCE Leaf habit: Intermediate

PSEUDOSTEM CHARACTERISTICS				
Pseudostem height:	423 cm			
Pseudostem girth:	72 cm			
Pseudostem color(exposed):	Medium Green			
Pseudostem color(unexposed	d): Light green			
Sap Color:	Milky			
Wax on leaf sheaths:	Moderately waxy			

PETIOLE/MIDRIB/LEAF CHARACTERISTICS

Blotches at the petiole base:	Sparse blotching			
Blotches color petiole base:	Black			
Petiole canal of the third leaf:	Straight with erect margins			
Petiole margin(winged):	Not Winged			
Petiole margin(clasping):	Clasping			
Petiole margin color:	Green			
Edge of petiole margin:	With color line along			
Leaf blade length:	266 cm			
Leaf blade width:	72 cm			
Petiole length:	69 cm			
Shape of leaf blade base:	Both sides rounded			
Midrib ventral surface (color)	: Light Green			
Cigar leaf outer surface(color): Green				

INFLORESCENCE/MALE BUD CHARACTERISTICS

Empty nodes on peduncle:	Two		
Peduncle color:	Medium Green		
Peduncle hairiness:	Hairless		
Bunch position:	Falling vertically		
Bunch shape:	Cylindrical		
Bunch Appearance:	Lax		
Rachis position:	Falling vertically		
Male rachis appearance:	Neutral flowers on 1 to few		
hands only near the bunch; rest of the stalk is bare			
Male bud shape:	Medium		
Male bud size at harvest:	L=24.85 cm; W=9.30 cm		

BRACT CHARACTERISTICS

Bract base shape:	Medium shoulder		
Bract base apex (flatten):	Obtuse		
Bract imbrication:	Moderately imbricated		
Bract external face (color):	Purple		
Bract internal face (color):	Red		
Male bract shoulder:	Meduim (0.29)		
Male bract lifting:	Lifting one at a time		
Bract behavior before falling: Revolute			

MALE FLOWER CHARACTERISTICS

	51100
Compound tepal basic color:	Red purple
Compound tepal Lobe color:	Bright Yellow
Anther color:	Yellow
CROP CYCLE	
Bunch weight:	13.8 kg
Peduncle Weight:	1.30 kg
Number of hands:	8
Number of fruits:	94
Functional leaves at harvest:	10

FRUIT CHARACTERISTICS

Fruit shape:	
Fruit apex:	
Transverse section:	
Flower relicts at fruit apex:	
Fruit pedicel length:	
Fruit pedicel width:	
Fusion of the pedicels:	
Unripe fruit peel color:	

Straight Lengthily pointed Slightly ridged Persistent flower relicts ≥21 mm >10 mm Partially fused Silvery

Hands			Middle Fruit			
Hand No.	Weight	No. of	Length	Width	Pedicel (cm)	
	(kg)	fingers	(cm)	(cm)	L	W
1	2.00	12	15.62	4.32	3.32	1.15
2	1.70	12	14.93	4.32	4.62	1.15
3	1.80	12	15.25	4.76	3.88	1.32
4	1.90	14	13.62	4.40	3.35	1.14
5	1.95	14	12.28	4.32	3.40	1.15
6	1.55	14	12.35	4.29	2.72	1.03
7	1.35	14+1(a)	11.38	4.22	2.71	1.01
8	0.25	2+11(a)	9.09	3.50	2.49	0.95
Total	12.50	94+12(a)				
Mean	1.56	12	13.07	4.27	3.31	1.11

*-no data available a-aborted





BORNEO

ITC-code: ITC0253 Genome: Acuminata Subgroup: microcarpa Collection-Donor Country: CIRAD-France Accession Code: CIRAD II.04.01.006.003 Remarks: Horizontal bunch position Reaction to diseases: •FOC TR4 : Resistant •BBTV : 1.33 % Infection

MORPHOLOGICAL CHARACTERISTICS

PLANT GENERAL APPEARANCE Leaf habit: Erect

PSEUDOSTEM CHARACTERISTICS

Pseudostem height:346 cmPseudostem girth:43 cmPseudostem color(exposed):Light GreenPseudostem color(unexposed):Medium greenSap Color:MilkyWax on leaf sheaths:Very few

PETIOLE/MIDRIB/LEAF CHARACTERISTICS

Blotches at the petiole base:	Extensive pigmentation	F
Blotches color petiole base:	Black-purple	
Petiole canal of the third leaf	:Wide with erect margins	
Petiole margin(winged):	Not Winged	
Petiole margin(clasping):	Clasping	
Petiole margin color:	Green	
Edge of petiole margin:	With color line along	
Leaf blade length:	255 cm	
Leaf blade width:	66 cm	
Petiole length:	65 cm	
Shape of leaf blade base:	One side rounded; one pointed	l
Midrib ventral surface (color)	: Light Green	
Cigar leaf outer surface(color): Green	

INFLORESCENCE/MALE BUD CHARACTERISTICS

One
Medium Green
Hairy
Horizontal
Asymmetrical
Lax
At an angle
Bare
Skinny
L=16.01 cm; W=7.05 cm

BRACT CHARACTERISTICS

Bract base shape:	Large shoulder	
Bract base apex (flatten):	Pointed	
Bract imbrication:	Convolute	
Bract external face (color):	Purple-brown	
Bract internal face (color):	Orange red	
Male bract shoulder:	High (0.22)	
Male bract lifting:	Lifting one at a time	
Bract behavior before falling: Revolute		

MALE FLOWER CHARACTERISTICS

Compound tepal basic color:	Cream
Compound tepal Lobe color:	Yellow
Anther color:	Cream
CROP CYCLE	
Bunch weight:	2.21 kg
Peduncle Weight:	0.67 kg
Number of hands:	11
Number of fruits:	221
Functional leaves at harvest:	5

FRUIT CHARACTERISTICS Fruit shape: Fruit apex: Transverse section: Flower relicts at fruit apex: Fruit pedicel length: Fruit pedicel width: Fusion of the pedicels: Unripe fruit peel color:

Slightly curved Bottle-necked Slightly ridged Without flower relicts ≤10 mm 5-10 mm No visible sign of fusion Medium Green

	Hands		Middle Fruit			
Hand No.	Weight	No.of	Length	Width	Pedic	el (cm)
	(kg)	fingers	(cm)	(cm)	L	W
1	0.15	25	6.94	1.34	0.62	0.58
2	0.20	28	6.76	1.48	1.17	0.56
3	0.20	24	6.91	1.41	1.14	0.61
4	0.15	24	6.54	1.36	1.02	1.18
5	0.15	22	7.00	1.45	0.87	0.69
6	0.15	20	6.11	1.52	1.01	0.64
7	0.11	20	6.24	1.32	1.03	0.61
8	0.16	20	6.20	1.52	1.05	0.65
9	0.10	15+4(a)	6.60	1.53	1.12	0.63
10	0.12	16+4(a)	5.88	1.46	0.84	0.66
11	0.05	7+8(a)	5.43	1.51	0.98	0.60
Total	1.54	221+16(a)				
Mean	0.14	20	6.42	1.44	0.98	0.67

*-no data available

a-aborted

BORNEO



CALCUTTA 4

ITC-code: ITC0249 Genome: Acuminata Subgroup: burmaniccoides Collection-Donor Country: CIRAD-France Accession Code: CIRAD II.04.01.003.001 Remarks: Horizontal bunch position Reaction to diseases: •FOC TR4 : Moderately resistant : 4.00 % Infection •BBTV

MORPHOLOGICAL CHARACTERISTICS

PLANT GENERAL APPEARANCE Leaf habit: Erect

PSEUDOSTEM CHARACTERISTICS Pseudostem height: 350 cm Pseudostem girth: 39 cm Pseudostem color(exposed): Green yellow Pseudostem color(unexposed): Cream Sap Color: Milky Wax on leaf sheaths: No visible sign

PETIOLE/MIDRIB/LEAF CHARACTERISTICS

Moderate blotching F
Brown
Open with margins spreading
Winged
Clasping
Green
Without color line along
246 cm
63 cm
84 cm
One side rounded; one pointed
: Light Green

MALE FLOWER CHARACTERISTICS Compound tepal basic color: Cream

Compound tepal Lobe color: **Bright Yellow** Anther color: Cream **CROP CYCLE** Bunch weight: 3.7 kg

Peduncle Weight: 2.20 kg Number of hands: 8 Number of fruits: 132 Functional leaves at harvest: 9

FRUIT CHARACTERISTICS Fruit shape: Fruit apex: Transverse section: Flower relicts at fruit apex: Fruit pedicel length: Fruit pedicel width: Fusion of the pedicels: Ripe fruit peel color: Unripe fruit peel color:

Curved Bottle-necked Rounded Persistent flower relicts ≤10 mm 5 to 10 mm Partially fused Bright yellow Light Green

INFLORESCENCE/MALE BUD CHARACTERISTICS

Cigar leaf outer surface(color): Green

Empty nodes on peduncle:	One
Peduncle color:	Medium Green
Peduncle hairiness:	Hairy
Bunch position:	Horizontal
Bunch shape:	Asymmetrical
Bunch Appearance:	Compact
Rachis position:	Falling vertically
Male rachis appearance:	Bare
Male bud shape:	Skinny
Male bud size at harvest:	L=21.00 cm; W=8.19 cm

BRACT CHARACTERISTICS

Bract base shape:	Large shoulder
Bract base apex (flatten):	Pointed
Bract imbrication:	Moderately imbricated
Bract external face (color):	Purple
Bract internal face (color):	Orange red
Male bract shoulder:	High (0.18)
Male bract lifting:	Lifting two or more at a time
Bract behavior before falling	n Revolute

fract behavior before failing: Revolute

Hands		Middle Fruit				
Hand No.	Weight	No. of	Length	Width	Pedic	el (cm)
	(kg)	fingers	(cm)	(cm)	L	W
1	0.23	20	6.03	1.78	0.74	1.03
2	0.20	18	5.75	1.80	0.85	0.79
3	0.10	7	5.13	1.82	0.99	0.85
4	0.23	18	5.29	1.88	0.80	0.84
5	0.24	18	6.56	1.78	0.78	0.86
6	0.15	16	6.15	1.94	0.66	0.84
7	0.20	18	5.42	1.73	0.73	0.80
8	0.15	17	5.82	1.80	0.76	0.78
Total	1.50	132				
Mean	0.19	16	5.77	1.82	0.79	0.85

т

*-no data available

CALCUTTA 4



DOLE

ITC-code: ITC0767 Genome: ABB Subgroup: Bluggoe Collection-Donor Country: IRFA-Guadeloupe Accession Code: CIRAD II.04.32.001.005

Remarks: Lax (bunch appearance) Reaction to diseases: •FOC TR4 : Susceptible •BBTV : 4.00 % Infection

MORPHOLOGICAL CHARACTERISTICS

PLANT GENERAL APPEARANCE Leaf habit: Intermediate

PSEUDOSTEM CHARACTERISTICS

Pseudostem height:	324 cm
Pseudostem girth:	37 cm
Pseudostem color(exposed):	Medium Green
Pseudostem color(unexpose	d): Light green
Sap Color:	Milky
Wax on leaf sheaths:	Moderately waxy

PETIOLE/MIDRIB/LEAF CHARACTERISTICS

Blotches at the petiole base:	Sparse blotching
Blotches color petiole base:	Brown
Petiole canal of the third leaf:	Margins curved inward
Petiole margin(winged):	Winged
Petiole margin(clasping):	Clasping
Petiole margin color:	Light Green
Edge of petiole margin:	Without color line along
Leaf blade length:	154 cm
Leaf blade width:	50 cm
Petiole length:	33 cm
Shape of leaf blade base: E	Both sides rounded
Midrib ventral surface (color)	: Medium Green
Cigar leaf outer surface(color)): Green

INFLORESCENCE/MALE BUD CHARACTERISTICS

Empty nodes on peduncle:	Three
Peduncle color:	Light Green
Peduncle hairiness:	Hairless
Bunch position:	Hanging vertically
Bunch shape:	Cylindrical
Bunch Appearance:	Lax
Rachis position:	Falling vertically
Male rachis appearance:	Neutral flowers on 1 to few
hands only near the b	unch; rest of the stalk is bare
Male bud shape:	Fat
Male bud size at harvest:	L=22.00 cm; W=11.00 cm

BRACT CHARACTERISTICS

Bract base shape:	Small shoulder	
Bract base apex (flatten):	Obtuse	
Bract imbrication:	Moderately imbricated	
Bract external face (color):	Purple-brown	
Bract internal face (color):	Red	
Male bract shoulder:	Meduim (0.28)	
Male bract lifting:	Lifting one at a time	
Bract behavior before falling: Revolute		

MALE FLOWER CHARACTERISTICS

Compound tepal basic color: Compound tepal Lobe color: Anther color:	Cream Yellow Cream
CROP CYCLE	
Bunch weight:	3.04 kg
Peduncle Weight:	0.50 kg
Number of hands:	3
Number of fruits:	23
Functional leaves at harvest:	5
FRUIT CHARACTERISTICS	

RUIT CHARACTERISTICS	
Fruit shape:	Straight
Fruit apex:	Blunt-tipped
Transverse section:	Slightly ridged
Flower relicts at fruit apex:	Persistent flower relicts
Fruit pedicel length:	≥21 mm
Fruit pedicel width:	>10 mm
Fusion of the pedicels:	No sign of fusion
Unripe fruit peel color:	Silvery

Hands			Middle Fruit	
Hand No.	Weight No. of (kg) fingers		Length (cm)	Width (cm)
1	1.10	8	12.10	4.50
2	1.15	9	11.00	5.00
3	0.65	6+1(a)		
Total	2.90	23+1(a)		
Mean	0.97	8	11.50	4.75

*-no data available a-aborted

DOLE



FIGUE POMME GEANTE

ITC-code: ITC0769 Genome: AAB Subgroup: Silk Collection-Donor Country: IRFA-Guadeloupe Accession Code: CIRAD II.04.31.007.001

Remarks: Pink purple petiole margin (like Latundan) Reaction to diseases:

•FOC TR4 : Moderately resistant •BBTV : 0 % Infection

MORPHOLOGICAL CHARACTERISTICS

PLANT GENERAL APPEARANCE Leaf habit: Intermediate

PSEUDOSTEM CHARACTERISTICS

Pseudostem height: 405 cm Pseudostem girth: 53 cm Pseudostem color(exposed): Light Green Pseudostem color(unexposed): Light green Sap Color: Milky Wax on leaf sheaths: Very little

PETIOLE/MIDRIB/LEAF CHARACTERISTICS

Blotches at the petiole base:	Moderate blotching
Blotches color petiole base:	Black
Petiole canal of the third leaf:	Straight with erect margins
Petiole margin(winged):	Not Winged
Petiole margin(clasping):	Clasping
Petiole margin color:	Pink-purple
Edge of petiole margin:	With a color line along
Leaf blade length:	268 cm
Leaf blade width:	69 cm
Petiole length:	61 cm
Shape of leaf blade base:	Both sides rounded
Midrib ventral surface (color)	: Green
Cigar leaf outer surface(color): Green

INFLORESCENCE/MALE BUD CHARACTERISTICS

Empty nodes on peduncle:	Two
Peduncle color:	Green
Peduncle hairiness:	Hairless
Bunch position:	Slightly angled
Bunch shape:	Cylindrical
Bunch Appearance:	Lax
Rachis position:	Falling vertically
Male rachis appearance:	Bare
Male bud shape:	Medium
Male bud size at harvest:	L=22.30 cm; W=8.21 cm

BRACT CHARACTERISTICS

Bract base shape:	Large shoulder
Bract base apex (flatten):	Intermediate
Bract imbrication:	Moderately imbricated
Bract external face (color):	Purple
Bract internal face (color):	Red-purple
Male bract shoulder:	Meduim (0.28)
Male bract lifting:	Lifting one at a time
Bract behavior before falling	g: Revolute

MALE FLOWER CHARACTERISTICS

	100
Compound tepal basic color:	Cream
Compound tepal Lobe color:	Yellow
Anther color:	Cream
CROP CYCLE	
Bunch weight:	8.45 kg
Peduncle Weight:	1.9 kg
Number of hands:	8
Number of fruits:	111
Functional leaves at harvest:	6

FRUIT CHARACTERISTICS

Fruit shape:
Fruit apex:
Transverse section:
Flower relicts at fruit apex:
Fruit pedicel length:
Fruit pedicel width:
Fusion of the pedicels:
Unripe fruit peel color:

Straight Blunt-tipped Rounded Persistent flower relicts ≥21 mm >10 mm Partially fused Green

Hands		Middle Fruit				
Hand No.	Weight No. of		Length Wid	Width	Pedic	el (cm)
	(kg)	fingers	(cm)	(cm)	L	W
1	1.00	15	9.38	3.15	1.65	1.05
2	0.95	16	8.92	2.80	1.60	1.09
3	0.90	16	8.90	2.75	2.02	1.05
4	0.75	15	8.02	3.05	2.06	1.10
5	0.90	16	8.30	3.06	2.92	1.02
6	0.80	16	8.62	2.93	2.52	1.03
7	0.75	16	7.82	2.93	2.83	0.94
8	0.50	1+10(a)	6.30	2.52	2.62	1.05
Total	6.55	111+10(a)				
Mean	0.82	14	8.28	2.90	2.28	1.04

*-no data available

FIGUE POMME GEANTE



IGITSIRI (INTUNTU)

ITC-code: ITC0081 Genome: AAAh Subgroup: Mutika-Lujugira Collection-Donor Country: IRAZ-Burundi Accession Code: BIZ 095 Remarks: Black (exposed pseudostem); Yellow (male flower); Light green with purple (bract) Reaction to diseases:

•FOC TR4 : Highly resistant

•BBTV : 10.59 % Infection

MORPHOLOGICAL CHARACTERISTICS

PLANT GENERAL APPEARANCE Leaf habit: Intermediate

PSEUDOSTEM CHARACTERISTICS Pseudostem height: 246 cm Pseudostem girth: 35 cm

Pseudostem girth: 35 cm Pseudostem color(exposed): Black Pseudostem color(unexposed): Light Green Sap Color: Watery Wax on leaf sheaths: Very little

PETIOLE/MIDRIB/LEAF CHARACTERISTICS

1		
	Blotches at the petiole base:	Extensive pigmentation
	Blotches color petiole base:	Black-purple
	Petiole canal of the third leaf:	Straight with erect margins
	Petiole margin(winged):	Winged
	Petiole margin(clasping):	Clasping
	Petiole margin color:	Green
	Edge of petiole margin:	With a color line along
	Leaf blade length:	142 cm
	Leaf blade width:	48 cm
	Petiole length:	33 cm
	Shape of leaf blade base: On	e side rounded; one pointed
	Midrib ventral surface (color)	: Medium Green

Cigar leaf outer surface(color): Green

INFLORESCENCE/MALE BUD CHARACTERISTICS

Empty nodes on peduncle:	None
Peduncle color:	Green
Peduncle hairiness:	Hairy
Bunch position:	Slightly angled
Bunch shape:	Asymmetrical
Bunch Appearance:	Lax
Rachis position:	At an angle
Male rachis appearance:	Neutral flowers/male flowers
and presence of withe	red bracts on the entire stalk
Male bud shape:	Skinny
Male bud size at harvest:	L=15.36 cm; W=5.15 cm

BRACT CHARACTERISTICS

Bract base shape:	Medium shoulder
Bract base apex (flatten):	Obtuse
Bract imbrication:	Moderately imbricated
Bract external face (color):	Light Green w/ purple
Bract internal face (color):	Light Green
Male bract shoulder:	High (0.23)
Male bract lifting:	Lifting 2 or more at a time
Bract behavior before falling	a: Revolute

MALE FLOWER CHARACTERISTICS

Compound tepal basic color: Compound tepal Lobe color:	Yellow Yellow
Anther color:	Yellow
CROP CYCLE	

Bunch weight:	2.34 kg
Peduncle Weight:	0.20 kg
Number of hands:	4
Number of fruits:	44
Functional leaves at harvest:	5

FRUIT CHARACTERISTICS

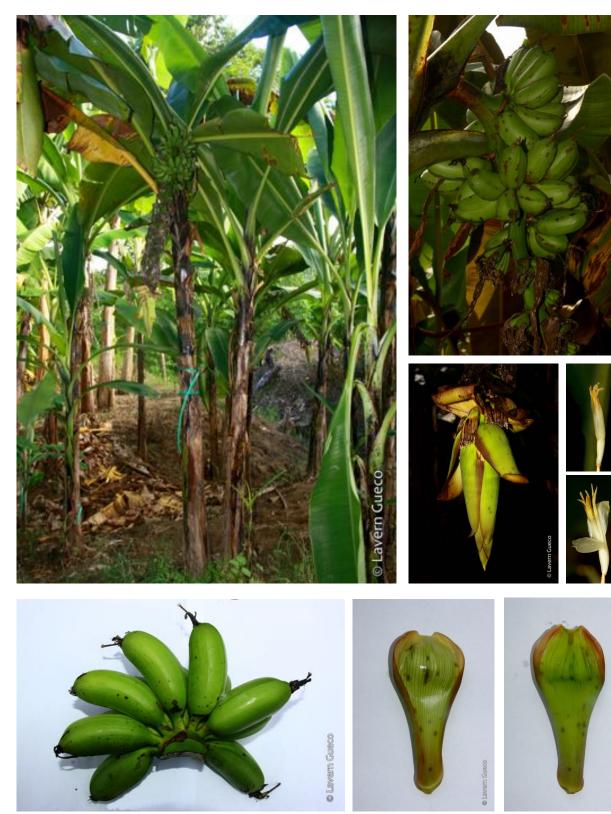
Fruit shape:	St
Fruit apex:	Bl
Transverse section:	R
Flower relicts at fruit apex:	Pe
Fruit pedicel length:	11
Fruit pedicel width:	>'
Fusion of the pedicels:	Pa
Unripe fruit peel color:	G

Straight Blunt-tipped Rounded Persistent flower relicts 11 to 20 mm >10 mm Partially fused Green

Hands			Middle Fruit			
Hand No.	Weight (kg)	No. of fingers	Length (cm)	Width (cm)	Pedic L	el (cm) W
1	0.79	17	8.82	3.03	1.52	
2	0.50	10	7.60	3.23	1.20	
3	0.50	11	6.82	3.20	0.83	
4	0.35	10	6.70	2.82	0.91	
Total	2.14	48				
Mean	0.54	12	7.49	3.07	1.12	

*-no data available

IGITSIRI (INTUNTU)



wem Gusco

© Lavern Gueco

KHAI THONG RUANG

ITC-code: ITC0662 Genome: AAA Subgroup: Ibota Collection-Donor Country: CIRAD-France Accession Code: CIRAD II.04.30.005.002 Remarks: With a color line along (edge of petiole margin) Reaction to diseases: •FOC TR4 : Moderately resistant •BBTV : 1.33 % Infection

MORPHOLOGICAL CHARACTERISTICS

PLANT GENERAL APPEARANCE Leaf habit: Erect

PSEUDOSTEM CHARACTERISTICS			
415 cm			
53 cm			
sed): Green Yellow			
posed): Green Yellow			
Milky			
Very little			

PETIOLE/MIDRIB/LEAF CHARACTERISTICS

Blotches at the petiole base:	Extensive pigmentation
Blotches color petiole base:	Black-purple
Petiole canal of the third leaf:	Straight with erect margins
Petiole margin(winged):	Winged
Petiole margin(clasping):	Clasping
Petiole margin color:	Green
Edge of petiole margin:	With a color line along
Leaf blade length:	268 cm
Leaf blade width:	67 cm
Petiole length:	67 cm
Shape of leaf blade base:	Both sides pointed
Midrib ventral surface (color)	: Medium Green
Cigar leaf outer surface(color)): Green

INFLORESCENCE/MALE BUD CHARACTERISTICS

Empty nodes on peduncle:	One
Peduncle color:	Medium Green
Peduncle hairiness:	Hairy
Bunch position:	Hanging at 45 ⁰ angle
Bunch shape:	Asymmetrical
Bunch Appearance:	Compact
Rachis position:	Asymmetrical
Male rachis appearance:	Neutral flowers on 1 to few
hands only near the bi	unch rest of the stalk is bare
Male bud shape:	Medium
Male bud size at harvest:	L=16.85 cm; W=7.35 cm

BRACT CHARACTERISTICS

Bract base shape:	Large shoulder
Bract base apex (flatten):	Obtuse
Bract imbrication:	Moderately imbricated
Bract external face (color):	Pink-purple
Bract internal face (color):	Orange-red
Male bract shoulder:	High (0.24)
Male bract lifting:	Lifting one at a time
Bract behavior before falling	g: Revolute

MALE FLOWER CHARACTERISTICS

Compound tepal basic color:	Yellow
Compound tepal Lobe color:	Yellow
Anther color:	Cream

CROP CYCLE

Bunch weight:	13.25 kg
Peduncle Weight:	1.65 kg
Number of hands:	11
Number of fruits:	189
Functional leaves at harvest:	7

FRUIT CHARACTERISTICS

Fruit shape:	Straight/slightly curved
Fruit apex:	Blunt-tipped
Transverse section:	Rounded
Flower relicts at fruit apex:	Persistent flower relicts
Fruit pedicel length:	11 to 20 mm
Fruit pedicel width:	>10 mm
Fusion of the pedicels:	Partially fused
Unripe fruit peel color:	Green

Hands			Middle Fruit			
Hand No.	Weight	No. of	Length	n Width Pedicel (cm)		el (cm)
	(kg)	fingers	(cm)	(cm)	L	W
1	1.80	12	9.70	3.25	2.28	1.28
2	1.55	24	10.70	3.18	1.45	1.05
3	1.35	24	10.69	3.15	1.22	1.08
4	1.15	20	10.15	2.60	1.41	1.08
5	1.05	18	9.82	3.00	1.18	1.21
6	1.00	18	9.02	3.12	1.35	1.22
7	0.95	18	9.85	2.72	1.35	1.32
8	0.90	17	9.80	2.65	1.31	1.09
9	0.90	18	9.45	2.90	0.82	1.09
10	0.85	18	8.99	2.51	1.15	1.12
11	0.10	2+10(a)	7.12	2.65	0.92	1.01
Total	11.60	189				
Mean	1.05	17	9.57	2.88	1.31	1.14

*-no data available a-aborted

KHAI THONG RUANG



MBWAZIRUME

ITC-code: ITC0084 Genome: AAAh Subgroup: Mutika-Lujugira Collection-Donor Country: IRAZ-Burundi Accession Code: BIZ 090 Remarks: Black edge of petiole margin; white (ovary; tepal; anther); pink pollen sac; curved style Reaction to diseases:

•FOC TR4 : Moderately resistant

•BBTV : 6.67 % Infection

MORPHOLOGICAL CHARACTERISTICS

PLANT GENERAL APPEARANCE Leaf habit: Intermediate

PSEUDOSTEM CHARACTERISTICS Pseudostem height: 229 cm Pseudostem girth: 50 cm Pseudostem color(exposed): Light Green Pseudostem color(unexposed): Light Green Sap Color: * Wax on leaf sheaths: Moderately waxy

PETIOLE/MIDRIB/LEAF CHARACTERISTICS

Blotches at the petiole base:	Moderate pigmentation
Blotches color petiole base:	Black-purple
Petiole canal of the third leaf:	Open w/ margins spreading
Petiole margin(winged):	Winged
Petiole margin(clasping):	Clasping
Petiole margin color:	Green
Edge of petiole margin:	With a color line along
Leaf blade length:	152 cm
Leaf blade width:	55 cm
Petiole length:	19 cm
Shape of leaf blade base: On	e side rounded; one pointed
Midrib ventral surface (color)	: Light Green

Cigar leaf outer surface(color): Green

INFLORESCENCE/MALE BUD CHARACTERISTICS

Empty nodes on peduncle:	One
Peduncle color:	Medium Green
Peduncle hairiness:	Hairy
Bunch position:	Slightly angled
Bunch shape:	Asymmetrical
Bunch Appearance:	Compact
Rachis position:	At an angle
Male rachis appearance:	Neutral/male flowers and
presence of withered b	practs on the entire stalk.
Male bud shape:	Fat
Male bud size at harvest:	L=18.35 cm; W=10.82 cm

BRACT CHARACTERISTICS

Bract base shape:	Medium shoulder		
Bract base apex (flatten):	Obtuse and split		
Bract imbrication:	Moderately imbricated		
Bract external face (color):	Green Yellow		
Bract internal face (color):	Orange-red		
Male bract shoulder:	Large (0.32)		
Male bract lifting:	Lifting 2 or more at a time		
Bract behavior before falling: Revolute			

MALE FLOWER CHARACTERISTICS

Compound tepal basic color: Compound tepal Lobe color: Anther color:	White Cream White
CROP CYCLE	
Bunch weight:	2.77 kg
Peduncle Weight:	1.00 kg
Number of hands:	4
Number of fruits:	44
Functional leaves at harvest:	7

FRUIT CHARACTERISTICS

Fruit shape:
Fruit apex:
Transverse section:
Flower relicts at fruit apex:
Fruit pedicel length:
Fruit pedicel width:
Fusion of the pedicels:
Unripe fruit peel color:

Slightly curved Lengthily pointed Slightly ridged Persistent flower relicts 11 to 20 mm >10 mm No visible sign of fusion Medium Green

Hands		Middle Fruit				
Hand No.	Weight (kg)	No. of fingers	Length (cm)	Width (cm)	Pedic L	el (cm) W
1	0.85	16	10.92	2.50	1.75	1.18
2	0.62	14	12.01	2.52	1.85	1.16
3	0.25	13	7.35	2.11	1.60	0.95
4	0.05	1+13(a)	5.65	2.41	1.48	0.98
Total	1.77	44+13(a)				
Mean	0.44	11	8.98	2.39	1.67	1.07

*-no data available a-aborted

MBWAZIRUME



MONTHAN

ITC-code: ITC1483 Genome: ABB Subgroup: Monthan Collection-Donor Country: CIRAD-FLHOR-Guadeloupe Accession Code: II.04.32.003.001 Remarks: Susceptible to freckles; very waxy male bud; red purple male flower

Reaction to diseases:

•FOC TR4 : Susceptible

•BBTV : 0 % Infection

MORPHOLOGICAL CHARACTERISTICS

PLANT GENERAL APPEARANCE Leaf habit: Intermediate

PSEUDOSTEM CHARACTERISTICS

Pseudostem height:388 cmPseudostem girth:43 cmPseudostem color(exposed): Green YellowPseudostem color(unexposed): Light GreenSap Color:MilkyWax on leaf sheaths:Moderately waxy

PETIOLE/MIDRIB/LEAF CHARACTERISTICS

Blotches at the petiole base: Blotches color petiole base:	
Petiole canal of the third leaf:	
Petiole margin(winged):	Not Winged
Petiole margin(clasping):	Clasping
Petiole margin color:	Light Green
Edge of petiole margin:	Without color line along
Leaf blade length:	168 cm
Leaf blade width:	58 cm
Petiole length:	52 cm
Shape of leaf blade base:	Both sides rounded
Midrib ventral surface (color)	: Light Green
Cigar leaf outer surface(color)): Green

INFLORESCENCE/MALE BUD CHARACTERISTICS

Medium Green

Slightly angled Asymmetrical

Falling vertically

L=20.55 cm; W=8.60 cm

Hairless

Lax

Bare

Medium

Empty nodes on peduncle: Two

Peduncle color:

Bunch position:

Rachis position: Male rachis appearance:

Male bud shape:

Bunch shape: Bunch Appearance:

Peduncle hairiness:

MALE FLOWER CHARACTERISTICS

Compound tepal basic color: Compound tepal Lobe color: Anther color:	Red-purple Bright Yellow Yellow
CROP CYCLE	
Bunch weight:	9.05 kg
Peduncle Weight:	0.95 kg
Number of hands:	5
Number of fruits:	52

Number of fruits:	
Functional leaves at harvest:	

FRUIT CHARACTERISTICS

Fruit shape:SIFruit apex:StTransverse section:PrFlower relicts at fruit apex:PeFruit pedicel length:≥Fruit pedicel width:>'Fusion of the pedicels:NoUnripe fruit peel color:Gr

Slightly curved Strongly bottle-necked Pronounced ridges Persistent flower relicts ≥ 21 mm >10 mm No visible sign of fusion Green

7

Hands		Middle Fruit				
Hand No.	Weight	No. of	Length	Width		el (cm)
	(kg)	fingers	(cm)	(cm)	L	W
1	2.25	12	17.35	4.26	3.69	1.19
2	1.65	10	14.19	4.19	4.11	1.15
3	1.55	10	14.50	4.06	3.00	1.09
4	1.70	12	14.20	3.95	2.92	1.05
5	0.95	8+3(a)	10.24	3.05	3.20	0.85
Total	8.10	52				
Mean	1.62	10.40	14.10	3.90	3.38	1.07

*-no data available a-aborted

Male bud size at harvest: BRACT CHARACTERISTICS

	Bract base shape:	Medium shoulder
	Bract base apex (flatten):	Obtuse
	Bract imbrication:	Moderately imbricated
	Bract external face (color):	Purple-brown
	Bract internal face (color):	Red
	Male bract shoulder:	Large (0.30)
	Male bract lifting:	Lifting 2 or more at a time
Bract behavior before falling: Revolute		

MONTHAN



OBINO I'EWAI

ITC-code: ITC0109 Genome: AAB Subgroup: Plantain Collection-Donor Country: IITA-Nigeria Accession Code: NGA-59

Remarks: Plantain type Reaction to diseases: •FOC TR4 : Moderately resistant •BBTV : 4.00 % Infection

MORPHOLOGICAL CHARACTERISTICS

PLANT GENERAL APPEARANCE Leaf habit: Intermediate

PSEUDOSTEM CHARACTERISTICS		
Pseudostem height:	320 cm	
Pseudostem girth:	52 cm	
Pseudostem color(exposed): Green Yellow		
Pseudostem color(unexposed): Light Green		
Sap Color:	Milky	
Wax on leaf sheaths:	No visible sign of fusion	

PETIOLE/MIDRIB/LEAF CHARACTERISTICS

Blotches at the petiole base:	Sparse blotching
Blotches color petiole base:	Black-purple
Petiole canal of the third leaf:	Straight w/ erect margins
Petiole margin(winged):	Not Winged
Petiole margin(clasping):	Clasping
Petiole margin color:	Medium Green
Edge of petiole margin:	With color line along
Leaf blade length:	161 cm
Leaf blade width:	72 cm
Petiole length:	44 cm
Shape of leaf blade base:	Both sides rounded
Midrib ventral surface (color)	: Medium Green
Cigar leaf outer surface(color)): Green

INFLORESCENCE/MALE BUD CHARACTERISTICS

MALE FLOWER CHARACTERISTICS

Compound tepal basic color: Compound tepal Lobe color:	Yellow Bright Yellow
Anther color:	Yellow
CROP CYCLE	

Bunch weight:	10.70 kg
Peduncle Weight:	1.10 kg
Number of hands:	8
Number of fruits:	91
Functional leaves at harvest:	6

FRUIT CHARACTERISTICS

Fruit shape:	Straight in the distal part
Fruit apex:	Lengthily pointed
Transverse section:	Slightly ridged
Flower relicts at fruit apex:	Persistent flower relicts
Fruit pedicel length:	≥21 mm
Fruit pedicel width:	>10 mm
Fusion of the pedicels:	Partially fused
Unripe fruit peel color:	Light Green

				,		
Hands			Middle Fruit			
Hand No.	Weight	No. of	Length	Width	Pedicel (cm)	
	(kg)	fingers	(cm)	(cm)	L	W
1	1.85	13	15.32	3.92	3.88	1.42
2	1.45	12	15.95	3.82	3.28	1.25
3	1.15	9	14.91	3.45	3.79	1.41
4	1.15	11	14.39	3.69	3.95	1.52
5	1.10	11	14.05	3.32	1.23	1.15
6	1.15	12	13.72	3.45	2.98	1.12
7	1.00	11	11.52	3.01	3.18	1.17
8	0.75	12	10.15	2.88	3.55	1.25
Total	9.60	91				
Mean	1.20	11	13.75	3.44	3.23	1.29

*-no data available

Male bud shape: Skinny Male bud size at harvest: L=11.8

Male rachis appearance:

Empty nodes on peduncle: Two

Peduncle color:

Bunch position:

Rachis position:

Bunch shape: Bunch Appearance:

Peduncle hairiness:

t: L=11.88 cm; W=4.35 cm

Neutral/male flowers and

Medium Green

Hanging vertically

Falling vertically

Hairless

Truncated

Compact

presence of withered bracts on the entire stalk

BRACT CHARACTERISTICS

Bract base shape:	Small shoulder
Bract base apex (flatten):	Obtuse
Bract imbrication:	Moderately imbricated
Bract external face (color):	Purple
Bract internal face (color):	Pink-purple
Male bract shoulder:	Large (0.35)
Male bract lifting:	Lifting 2 or more at a time
Bract behavior before falling	g: Revolute

OBINO I'EWAI



PAHANG

ITC-code: ITC0609 Genome: acuminata Subgroup: malaccensis Collection-Donor Country: IRFA-Guadeloupe Accession Code: CIRAD II.04.01.001.002 Remarks: Horizontal bunch and rachis position Aborted fruits on 1-2 hands Reaction to diseases:

•FOC TR4 : Highly resistant

•BBTV : 0.67 % Infection

MORPHOLOGICAL CHARACTERISTICS

PLANT GENERAL APPEARANCE Leaf habit: Erect

 PSEUDOSTEM CHARACTERISTICS

 Pseudostem height:
 395 cm

 Pseudostem girth:
 47 cm

 Pseudostem color(exposed): Light Green

 Pseudostem color(unexposed): Light Green

 Sap Color:
 Milky

 Wax on leaf sheaths:
 Moderately waxy

PETIOLE/MIDRIB/LEAF CHARACTERISTICS

Blotches at the petiole base:	Extensive blotching
Blotches color petiole base:	Black
Petiole canal of the third leaf:	Margins curved inward
Petiole margin(winged):	Not Winged
Petiole margin(clasping):	Not Clasping
Petiole margin color:	Green
Edge of petiole margin:	Without color line along
Leaf blade length:	236 cm
Leaf blade width:	54.5 cm
Petiole length:	87 cm
Shape of leaf blade base: On	e side rounded; one pointe

MALE FLOWER CHARACTERISTICS

Functional leaves at harvest:

Compound tepal basic color: Compound tepal Lobe color: Anther color:	Cream Yellow Cream
CROP CYCLE	
Bunch weight:	3.12 kg
Peduncle Weight:	0.30 kg
Number of hands:	10
Number of fruits:	64

 FRUIT CHARACTERISTICS

 Fruit shape:
 Curved

 Fruit apex:
 Blunt-tip

 Transverse section:
 Rounder

 Flower relicts at fruit apex:
 Persister

 Fruit pedicel length:
 ≤10 mr

 Fruit pedicel width:
 5 to 10

 Fusion of the pedicels:
 Partially

 Unripe fruit peel color:
 Light Gr

Curved
Blunt-tipped
Rounded
Persistent flower relicts
≤10 mm
5 to 10 mm
Partially fused
Light Green

11

Shape of leaf blade base: One side rounded; one pointe Midrib ventral surface (color) : Light Green Cigar leaf outer surface(color): Green

INFLORESCENCE/MALE BUD CHARACTERISTICS

Empty nodes on peduncle:	None
Peduncle color:	Green
Peduncle hairiness:	Hairy
Bunch position:	Horizontal
Bunch shape:	Cylindrical
Bunch Appearance:	Lax
Rachis position:	Horizontal
Male rachis appearance:	Neutral flowers on 1 to few
hands only near the b	unch rest of the stalk is bare
Male bud shape:	Skinny
Male bud size at harvest:	L=14.05 cm; W=6.95 cm

BRACT CHARACTERISTICS

Bract base shape:	Medium shoulder
Bract base apex (flatten):	Pointed
Bract imbrication:	Convolute
Bract external face (color):	Purple-brown
Bract internal face (color):	Orange red
Male bract shoulder:	High (0.19)
Male bract lifting:	Lifting one at a time
Bract behavior before falling	g: Revolute

ted							
	Hands			Middle Fruit			
	Hand No. Weigh		No. of	Length	Width	Pedicel (cm)	
	TIANU NO.	(kg)	fingers	(cm)	(cm)	L	W
	1	0.10	21(a)	5.30	1.50	1.00	0.50
	2	0.10	20(a)	6.50	1.50	1.10	0.70
	3	0.10	18(a)	6.50	1.00	1.00	0.50
	4	0.80	19(a)	6.70	1.10	0.50	0.50
	5	0.15	7+11(a)				
w	6	0.16	16				
re	7	0.11	8+9(a)				
	8	0.20	17				
	9	0.60	16(a)				
	10	0.50	16+1(a)				
	Total	2.82	64+115(a)				
	Mean	0.28	6.4	6.25	1.28	0.90	0.55

*-no data available a-aborted

PAHANG



PA RAYONG

ITC-code: ITC0672 Genome: acuminata Subgroup: siamea Collection-Donor Country: CIRAD-France Accession Code: CIRAD II.04.01.005.001 Remarks: Horizontal bunch position Reaction to diseases:

•FOC TR4 : Highly resistant

: 0 % Infection •BBTV

MORPHOLOGICAL CHARACTERISTICS

PLANT GENERAL APPEARANCE Leaf habit: Erect

PSEUDOSTEM CHARACTERISTICS

Pseudostem height: 411 cm Pseudostem girth: 38 cm Pseudostem color(exposed): Light green Pseudostem color(unexposed): Light green Sap Color: Watery Wax on leaf sheaths: No visible sign

PETIOLE/MIDRIB/LEAF CHARACTERISTICS

Blotches at the petiole base:	Moderate blotching
Blotches color petiole base:	Brown
Petiole canal of the third leaf:	Open w/ margins spreading
Petiole margin(winged):	Winged
Petiole margin(clasping):	Clasping
Petiole margin color:	Green
Edge of petiole margin:	Without color line along
Leaf blade length:	250 cm
Leaf blade width:	56 cm
Petiole length:	68 cm
Shape of leaf blade base:	Both sides pointed
Midrib ventral surface (color)	: Green yellow
Cigar leaf outer surface(color)): Green yellow

INFLORESCENCE/MALE BUD CHARACTERISTICS

Light Green

Hairless

Horizontal

Cylindrical

Falling vertically

L=15.70 cm; W=8.00 cm

Lax

Bare

Fat

Empty nodes on peduncle: One

Peduncle color:

Bunch position:

Rachis position:

Male bud shape:

Bunch shape:

Peduncle hairiness:

Bunch Appearance:

MALE FLOWER CHARACTERISTICS

Compound tepal basic color: Compound tepal Lobe color:	Cream Bright Yellow
Anther color:	White
CROP CYCLE	

Bunch weight:	1.45 kg
Peduncle Weight:	0.40 kg
Number of hands:	10
Number of fruits:	114
Functional leaves at harvest:	3

FRUIT CHARACTERISTICS

Fruit shape:
Fruit apex:
Transverse section:
Flower relicts at fruit apex:
Fruit pedicel length:
Fruit pedicel width:
Fusion of the pedicels:
Unripe fruit peel color:

Straight/Slightly Curved Bottle-necked Slightly ridged Without any flower relicts ≤10 mm 5 to 10 mm No visible sign of fusion Light Green

Hands		Middle Fruit				
Hand No.	Weight	No. of	Length	Width	Pedic	el (cm)
	(kg)	fingers	(cm)	(cm)	L	W
1	0.25	22	6.14	2.03	0.81	0.85
2	0.20	20	5.36	1.73	0.96	0.86
3	0.20	18	5.83	2.13	0.74	0.97
4	0.15	18	5.20	1.97	0.82	1.03
5	0.15	18	4.77	1.72	0.66	0.94
6	0.10	18	4.83	1.80	0.70	0.98
Total	1.05	114				
Mean	0.18	19.00	5.35	1.90	0.78	0.94

Male bud size at harvest: BRACT CHARACTERISTICS

Male rachis appearance:

Bract base shape:	Medium shoulder
Bract base apex (flatten):	Intermediate
Bract imbrication:	Moderate imbrication
Bract external face (color):	Purple-brown
Bract internal face (color):	Orange red
Male bract shoulder:	High (0.22)
Male bract lifting:	Lifting one at a time
Bract behavior before falling	g: Revolute

*-no data available

PA RAYONG



PELIPITA

ITC-code: ITC0472 Genome: ABB Subgroup: Pelipita Collection-Donor Country: FHIA-Honduras Accession Code: FHIA II-93; 331

Remarks: Red purple compound tepal basic color; Bright yellow compound tepal lobe color Reaction to diseases: Highly resistant to FOC TR4 •FOC TR4 : Highly resistant

: 5.88 % Infection •BBTV

MORPHOLOGICAL CHARACTERISTICS

PLANT GENERAL APPEARANCE Leaf habit: Intermediate

PSEUDOSTEM CHARACTERISTICS

Pseudostem height: 440 cm Pseudostem girth: 56 cm Pseudostem color(exposed): Medium Green Pseudostem color(unexposed): Light Green Milky Sap Color: Wax on leaf sheaths: Moderately waxy

PETIOLE/MIDRIB/LEAF CHARACTERISTICS

Blotches at the petiole base:	
Blotches color petiole base:	Black-purple
Petiole canal of the third leaf:	Straight with erect margins
Petiole margin(winged):	Not Winged
Petiole margin(clasping):	Clasping
Petiole margin color:	Green
Edge of petiole margin:	Without color line along
Leaf blade length:	200 cm
Leaf blade width:	73 cm
Petiole length:	61 cm
Shape of leaf blade base:	Both sides rounded
Midrib ventral surface (color)	: Medium Green
Cigar leaf outer surface(color): Green

INFLORESCENCE/MALE BUD CHARACTERISTICS

Empty nodes on peduncle:	Two
Peduncle color:	Green
Peduncle hairiness:	Hairless
Bunch position:	Hanging vertically
Bunch shape:	Cylindrical
Bunch Appearance:	Compact
Rachis position:	At an angle
Male rachis appearance:	Neutral/male flowers and
presence of withered b	practs on the entire stalk
Male bud shape:	Skinny
Male bud size at harvest:	L=26.40 cm; W=10.41 cm

BRACT/ MALE FLOWER CHARACTERISTICS

Bract base shape:	Small shoulder
Bract base apex (flatten):	Obtuse
Bract imbrication:	Moderate imbrication
Bract external face (color):	Purple-brown
Bract internal face (color):	Red
Male bract shoulder:	Large (0.33)
Male bract lifting:	Lifting two or more at a time
Bract behavior before falling	g: Revolute

MALE FLOWER CHARACTERISTICS

Compound tepal basic color: Red purple Compound tepal Lobe color: Bright Yellow Anther color: Yellow CROP CYCLE Bunch weight: 15.66 kg 1.70 kg

11

133

10

Peduncle Weight:
Number of hands:
Number of fruits:
Functional leaves at harvest:

FRUIT CHARACTERISTICS Fruit shape: Fruit apex: Transverse section: Flower relicts at fruit apex: Fruit pedicel length: Fruit pedicel width: Fusion of the pedicels: Unripe fruit peel color:

Straight/slightly curved Bottle-necked Pronounced ridges Without any flower relicts ≥21 mm >10 mm Partially fused Green

	Hands		Middle Fruit			
Hand No. Weight	No. of	Length	Width	Pedicel (cm)		
nanu No.	(kg)	fingers	(cm)	(cm)	L	W
1	1.31	10	13.90	4.10	5.40	1.45
2	1.50	12	12.09	4.05	5.12	1.45
3	1.51	12	13.20	3.70	4.82	1.45
4	1.49	12	12.80	3.72	4.81	1.41
5	1.35	12	11.49	4.09	3.39	1.48
6	1.30	12	12.08	3.36	3.13	1.52
7	1.40	14	11.36	3.08	2.82	1.38
8	1.20	13	10.45	3.48	1.75	1.29
9	1.25	14	11.81	3.00	2.92	1.32
10	1.05	14	9.95	3.00	2.90	1.16
11	0.60	8+6(a)	8.85	3.45	2.50	1.08
Total	13.96	133+6(a)				
Mean	1.27	12	11.63	3.55	3.60	1.36

*-no data available a-aborted

PELIPITA



PISANG CEYLAN

ITC-code: ITC1441 Genome: AAB Subgroup: Mysore Collection-Donor Country: CIRAD-Guadeloupe Accession Code: * Remarks: Pointed bract base apex Reaction to diseases:

•FOC TR4 : Highly resistant

•BBTV : 0 % Infection

MORPHOLOGICAL CHARACTERISTICS

PLANT GENERAL APPEARANCE Leaf habit: Intermediate

PSEUDOSTEM CHARACTERISTICS

Pseudostem height:	487 cm	
Pseudostem girth:	60 cm	
Pseudostem color(exposed): Green Yellow		
Pseudostem color(unexposed): Light Green		
Sap Color:	Milky	
Wax on leaf sheaths:	Moderately waxy	

PETIOLE/MIDRIB/LEAF CHARACTERISTICS

Blotches at the petiole base:	•	
Blotches color petiole base:		
Petiole canal of the third leaf :	Straight w/ erect margins	
Petiole margin(winged):	Not Winged	
Petiole margin(clasping):	Clasping	
Petiole margin color:	Pink	
Edge of petiole margin:	With color line along	
Leaf blade length:	231 cm	
Leaf blade width:	77 cm	
Petiole length:	58 cm	
Shape of leaf blade base:	Both sides rounded	
Midrib ventral surface (color) : Green		
Cigar leaf outer surface(color)	: Green	

INFLORESCENCE/MALE BUD CHARACTERISTICS

Empty nodes on peduncle:	Two
Peduncle color:	Medium green
Peduncle hairiness:	Hairy
Bunch position:	Hanging at 45 ⁰ angle
Bunch shape:	Cylindrical
Bunch Appearance:	Compact
Rachis position:	Falling vertically
Male rachis appearance:	Bare
Male bud shape:	Medium
Male bud size at harvest:	L-14.42 cm; W-6.72 cm

BRACT CHARACTERISTICS

Bract base shape:	Medium shoulder	
Bract base apex (flatten):	Pointed	
Bract imbrication:	Moderately imbricated	
Bract external face (color):	Purple	
Bract internal face (color):	Red	
Male bract shoulder:	High (0.23)	
Male bract lifting:	Lifting two or more at a time	
Bract behavior before falling: Revolute		

MALE FLOWER CHARACTERISTICS

Compound tepal basic color:	Yellow
Compound tepal Lobe color:	Yellow
Anther color:	Yellow

CROP CYCLE

Bunch weight:	14.48 kg
Peduncle Weight:	2.3 kg
Number of hands:	14
Number of fruits:	153
Functional leaves at harvest:	8

FRUIT CHARACTERISTICS

Fruit shape:	S
Fruit apex:	В
Transverse section:	R
Flower relicts at fruit apex:	Ν
Fruit pedicel length:	≥
Fruit pedicel width:	>
Fusion of the pedicels:	Р
Ripe fruit peel color:	Y
Unripe fruit peel color:	G

Straight/Slightly curved Blunt-tipped Rounded Without flower relict ≥21 mm >10 mm Partially fused ⁄ellow Green

	Hands			Middle	Fruit	
Hand No.	Weight	No. of	Length	Width	Pedic	el (cm)
nanu no.	(kg)	fingers	(cm)	(cm)	L	W
1	1.16	17	9.82	2.82	4.12	1.22
2	1.06	16	10.18	2.85	4.65	1.22
3	1.20	16	10.40	2.20	4.58	1.35
4	1.20	16	10.38	2.98	4.25	1.32
5	1.06	16	9.09	3.15	4.58	1.11
6	0.95	14	10.55	3.29	3.55	1.23
7	0.75	14	9.75	3.18	3.98	1.18
8	0.75	14	9.01	3.29	3.25	1.25
9	0.85	14	9.55	2.92	2.48	1.15
10	0.80	16	8.60	2.92	2.32	1.05
11	0.80	16	8.22	3.05	2.59	1.12
12	0.80	16	8.48	2.80	2.38	0.98
13	0.65	16	6.32	2.80	2.13	0.85
14	0.15	3+10(a)	5.22	3.09	2.15	0.90
Total	12.18	153+10(a)				
Mean	0.87	11	8.97	2.95	3.36	1.16

*-no data available





PISANG JARI BUAYA

ITC-code: ITC0312 Genome: AA Subgroup: Pisang jari buaya Collection-Donor Country: FHIA-Honduras Accession Code: FHIAII-320; 91

Remarks: Both sides pointed leaf blade; Reaction to diseases:

•FOC TR4 : Highly resistant

: 0 % Infection •BBTV

MORPHOLOGICAL CHARACTERISTICS

PLANT GENERAL APPEARANCE Leaf habit: Erect

PSEUDOSTEM CHARACTERISTICS

Pseudostem height:	445 cm	
Pseudostem girth:	53 cm	
Pseudostem color(exposed): Light Green		
Pseudostem color(une	exposed): Light Green	
Sap Color:	Milky	
Wax on leaf sheaths:	Very few	

PETIOLE/MIDRIB/LEAF CHARACTERISTICS

Blotches at the petiole base:	Sparse blotching	
Blotches color petiole base:	Black-purple	
Petiole canal of the third leaf	:Open w/ margins spreading	
Petiole margin(winged):	Winged	
Petiole margin(clasping):	Clasping	
Petiole margin color:	Green	
Edge of petiole margin:	With a color line along (pink)	
Leaf blade length:	245 cm	
Leaf blade width:	70 cm	
Petiole length:	18 cm	
Shape of leaf blade base:	Both sides pointed	
Midrib ventral surface (color) : Medium Green		
Cigar leaf outer surface(color): Green	

INFLORESCENCE/MALE BUD CHARACTERISTICS

Empty nodes on peduncle:	One
Peduncle color:	Green
Peduncle hairiness:	Hairy
Bunch position:	Slightly angled
Bunch shape:	Asymmetrical
Bunch Appearance:	Lax
Rachis position:	At an angle
Male rachis appearance:	Neutral/male flowers and
presence of withered b	practs on the entire stalk
Male bud shape:	Medium
Male bud size at harvest:	L=16.85 cm; W=8.40 cm

BRACT/ MALE FLOWER CHARACTERISTICS

Bract base shape:	Medium shoulder	
Bract base apex (flatten):	Obtuse	
Bract imbrication:	Convolute	
Bract external face (color):	Purple	
Bract internal face (color):	Pink-purple	
Male bract shoulder:	High (0.24)	
Male bract lifting:	Lifting two or more at a time	
Bract behavior before falling: Revolute		

MALE FLOWER CHARACTERISTICS

Cream Compound tepal basic color: Compound tepal Lobe color: Yellow Anther color: Cream

CROP CYCLE

Bunch weight:	14.03 kg
Peduncle Weight:	3.00 kg
Number of hands:	15
Number of fruits:	228
Functional leaves at harvest:	9

FRUIT CHARACTERISTICS

Fruit shape:	Straight in distal part
Fruit apex:	Lengthily pointed
Transverse section:	Pronounced ridges
Flower relicts at fruit apex: Only	base of the style persists
Fruit pedicel length:	≥21 mm
Fruit pedicel width:	>10 mm
Fusion of the pedicels:	No visible sign of fusion
Ripe fruit peel color:	Yellow
Unripe fruit peel color:	Light Green

Hands		Middle Fruit				
Hand No.	Weight	No. of	Length	Width	Pedic	el (cm)
	(kg)	fingers	(cm)	(cm)	L	W
1	0.28	9	12.12	1.89	3.33	1.09
2	1.03	20	12.28	2.62	2.92	1.33
3	0.90	19	13.11	2.19	2.62	1.39
4	0.78	17	12.22	2.29	2.95	1.22
5	0.80	17	11.28	2.15	2.55	1.25
6	0.80	17	11.90	2.20	2.38	1.28
7	0.85	18	12.09	2.01	2.42	1.21
8	0.85	17	12.22	2.15	2.18	1.28
9	0.70	16	11.65	2.15	2.35	1.32
10	0.73	16	11.60	2.20	2.18	1.23
11	0.76	16	11.85	2.15	2.12	1.22
12	0.65	16	11.15	2.15	2.06	1.22
13	0.65	17	10.45	2.15	2.22	1.22
14	0.50	13+5(a)	9.70	2.12	2.22	1.12
15	0.76	17(a)	7.33	1.70	1.68	0.95
Total	11.03	228+22(a)				
Mean	0.74	15	11.40	2.14	2.41	1.22

*-no data available

PISANG JARI BUAYA



PISANG LILIN

ITC-code: ITC1121 Genome: AA Subgroup: * Collection-Donor Country: IRFA-Guadeloupe Accession Code: CIRAD II.04.20.001.003

Remarks: Pink pollen sac and stigma (with a curve); 'S' fruit shape Reaction to diseases:

•FOC TR4 : Highly resistant

•BBTV : 3.33 % Infection

MORPHOLOGICAL CHARACTERISTICS

PLANT GENERAL APPEARANCE Leaf habit: Erect

PSEUDOSTEM CHARACTERISTICS

Pseudostem height: 373 cm Pseudostem girth: 45 cm Pseudostem color(exposed): Green-yellow Pseudostem color(unexposed): Light Green Sap Color: Watery Wax on leaf sheaths: Very little

PETIOLE/MIDRIB/LEAF CHARACTERISTICS

1		
	Blotches at the petiole base:	Moderate blotching
	Blotches color petiole base:	Brown
	Petiole canal of the third leaf:	Margins curved inward
	Petiole margin(winged):	Winged
	Petiole margin(clasping):	Clasping
	Petiole margin color:	Light Green
	Edge of petiole margin:	Without color line along
	Leaf blade length:	206 cm
	Leaf blade width:	51 cm
	Petiole length:	66 cm
	Shape of leaf blade base:	Both sides pointed
	Midrib ventral surface (color)	: Medium Green
	Cigar leaf outer surface(color)): Green

INFLORESCENCE/MALE BUD CHARACTERISTICS

Empty nodes on peduncle:	Two
Peduncle color:	Light Green
Peduncle hairiness:	Hairless
Bunch position:	Slightly angled
Bunch shape:	Asymmetric
Bunch Appearance:	Lax
Rachis position:	At an angle
Male rachis appearance:	Neutral flowers on 1 to few
hands only near the b	unch; rest of the stalk is bare
Male bud shape:	Medium
Male bud size at harvest:	L=11.50 cm; W=6.00 cm

BRACT CHARACTERISTICS

Bract base shape:	Large shoulder	
Bract base apex (flatten):	Intermediate	
Bract imbrication:	Convolute	
Bract external face (color):	Red	
Bract internal face (color):	Orange-red	
Male bract shoulder:	High (0.27)	
Male bract lifting:	Lifting 2 or more at a time	
Bract behavior before falling: Revolute		

MALE FLOWER CHARACTERISTICS

Compound tepal basic color: Cream Compound tepal Lobe color: Yellow Anther color: Cream

CROP CYCLE

Bunch weight:	9.25 kg
Peduncle Weight:	1.00 kg
Number of hands:	8
Number of fruits:	131
Functional leaves at harvest:	7

FRUIT CHARACTERISTICS

Fruit shape:	Curved in slight 'S' shape
Fruit apex:	Bottle-necked
Transverse section:	Rounded
Flower relicts at fruit apex:	Without any flower relicts
Fruit pedicel length:	11-20 mm
Fruit pedicel width:	5-10 mm
Fusion of the pedicels:	Partially fused
Unripe fruit peel color:	Light Green

Hands		Middle Fruit				
Hand No.	Weight No. of		Length Width		Pedicel (cm)	
	(kg)	fingers	(cm)	(cm)	L	W
1	1.20	17	15.00	2.80	2.00	1.20
2	1.45	17	15.40	3.00	3.00	1.20
3	1.00	18	10.85	2.50	1.70	0.74
4	1.05	16	10.72	2.33	1.50	0.70
5	1.00	16	10.54	2.46	1.22	0.72
6	0.95	16	9.36	2.47	1.07	0.80
7	0.95	16	10.44	2.39	1.28	0.80
8	0.65	15	8.73	2.42	1.35	0.73
Total	8.25	131				
Mean	1.03	16	11.38	2.55	1.64	0.86

PISANG LILIN



PRATA ANA

ITC-code: ITC0962 Genome: AAB Subgroup: Pome Collection-Donor Country: IRFA-Guadeloupe Accession Code: CIRAD II.04.31.009.013

Remarks: Cream with pink shade compound tepal basic color

Cream with pink shade

Yellow

Yellow

Reaction to diseases:

- •FOC TR4 : Highly resistant
 - : 11.33 % Infection •BBTV

MORPHOLOGICAL CHARACTERISTICS

PLANT GENERAL APPEARANCE Leaf habit: Intermediate

PSEUDOSTEM CHARACTERISTICS Pseudostem height: 332 cm Pseudostem girth: 62 cm Pseudostem color(exposed): Light Green Pseudostem color(unexposed): Light Green Sap Color: Milky Wax on leaf sheaths: Very few waxy

PETIOLE/MIDRIB/LEAF CHARACTERISTICS

Blotches at the petiole base:	Sparse blotching
Blotches color petiole base:	Black
Petiole canal of the third leaf:	Straight w/ erect margins
Petiole margin(winged):	Not Winged
Petiole margin(clasping):	Clasping
Petiole margin color:	Green
Edge of petiole margin:	Without color line along
Leaf blade length:	185 cm
Leaf blade width:	70 cm
Petiole length:	65 cm
Shape of leaf blade base:	Both sides rounded
Midrib ventral surface (color)	: Medium Green
Cigar leaf outer surface(color)): Green

INFLORESCENCE/MALE BUD CHARACTERISTICS

Empty nodes on peduncle:	Two
Peduncle color:	Medium Green
Peduncle hairiness:	Hairless
Bunch position:	Horizontal
Bunch shape:	Cylindrical
Bunch Appearance:	Lax
Rachis position:	Falling vertically
Male rachis appearance:	Male flowers/bracts above
the male	e bud rest of the stalk is bare
Male bud shape:	Fat
Male bud size at harvest:	L=20.21 cm; W=11.38 cm

BRACT/ MALE FLOWER CHARACTERISTICS

Bract base shape:	Medium shoulder
Bract base apex (flatten):	Obtuse
Bract imbrication:	Moderately imbricated
Bract external face (color):	Purple-brown
Bract internal face (color):	Red
Male bract shoulder:	Large (0.31)
Male bract lifting:	Lifting 2 or more at a time
Bract behavior before falling	a: Revolute

bract behavior before failing. Revolute

MALE FLOWER CHARACTERISTICS

Compound tepal basic color:	
Compound tepal Lobe color:	
Anther color:	

CROP CYCLE

Bunch weight:	10.23 kg
Peduncle Weight:	1.70 kg
Number of hands:	11
Number of fruits:	163
Functional leaves at harvest:	5

FRUIT CHARACTERISTICS

Fruit shape:	Straight/Slightly curved
Fruit apex:	Blunt-tipped
Transverse section:	Pronounced ridges
Flower relicts at fruit apex:	Without any flower relicts
Fruit pedicel length:	≥21 mm
Fruit pedicel width:	5-10 mm
Fusion of the pedicels:	Partially fused
Ripe fruit peel color:	Yellow
Unripe fruit peel color:	Light Green

Hands			Middle Fruit			
	Weight	No. of	Length	Width	Pedic	el (cm)
Hand No.	(kg)	fingers	(cm)	(cm)	L	W
1	0.95	23	12.55	2.62	3.75	0.78
2	0.80	18	10.38	2.65	3.05	0.80
3	0.80	16	11.98	2.85	2.93	0.78
4	0.90	14	12.05	2.95	2.82	0.80
5	0.85	13	11.06	2.98	3.10	0.82
6	0.85	16	11.15	2.98	2.83	0.78
7	0.85	14	11.33	2.82	3.10	0.74
8	0.80	16	10.62	2.62	2.92	0.72
9	0.88	16	10.30	3.59	2.13	0.83
10	0.75	16	10.10	3.12	2.20	0.78
11	0.10	1+14(a)	7.85	3.98	2.03	0.88
Total	8.53	163+14(a)				
Mean	0.78	15.00	10.85	3.01	2.81	0.79

*-no data available



PRATA ANA



RED DACCA

ITC-code: ITC0962 Genome: AAA Subgroup: Red/Green Red Collection-Donor Country: QDPI-Australia Accession Code: MHRS TC code 30.25; banana register N C32

Remarks: Red Banana Reaction to diseases:

•FOC TR4 : Highly resistant

•BBTV : 2.00 % Infection

MORPHOLOGICAL CHARACTERISTICS

PLANT GENERAL APPEARANCE Leaf habit: Erect

PSEUDOSTEM CHARACTERISTICS

Pseudostem height:505 cmPseudostem girth:80 cmPseudostem color(exposed):Red-purplePseudostem color(unexposed):Pink-purpleSap Color:MilkyWax on leaf sheaths:Moderately waxy

PETIOLE/MIDRIB/LEAF CHARACTERISTICS

Blotches at the petiole base:	Extensive blotching
Blotches color petiole base:	Black-purple
Petiole canal of the third leaf:	Open w/ margins spreading
Petiole margin(winged):	Winged
Petiole margin(clasping):	Clasping
Petiole margin color:	Purple-brown
Edge of petiole margin:	With a color line along
Leaf blade length:	263 cm
Leaf blade width:	70 cm
Petiole length:	52 cm
Shape of leaf blade base:	Both sides pointed
Midrib ventral surface (color)	: Green-yellow
Cigar leaf outer surface(color)): Green

INFLORESCENCE/MALE BUD CHARACTERISTICS

Empty nodes on peduncle:	One
Peduncle color:	Purple
Peduncle hairiness:	Very hairy; short hairs
Bunch position:	*
Bunch shape:	Asymmetrical
Bunch Appearance:	Lax
Rachis position:	*
Male rachis appearance:	Neutral flowers on 1 to few
hands only near the bi	unch rest of the stalk is bare
Male bud shape:	Medium
Male bud size at harvest:	L=23.00 cm; W=10.00 cm

BRACT/ MALE FLOWER CHARACTERISTICS

Bract base shape:Medium shoulderBract base apex (flatten):ObtuseBract imbrication:ConvoluteBract external face (color):PurpleBract internal face (color):Red-purpleMale bract shoulder:*Male bract lifting:*Bract behavior before falling: Revolute

MALE FLOWER CHARACTERISTICS

Compound tepal basic color: C Compound tepal Lobe color: Anther color:	cream with red-purple shade Cream Cream
CROP CYCLE	
Bunch weight:	5.05 kg
Peduncle Weight:	2.00 kg
Number of hands:	5
Number of fruits:	82
Functional leaves at harvest:	5
FRUIT CHARACTERISTICS	

FRUIT CHARACTERISTICS Fruit shape: Fruit apex: Transverse section: Flower relicts at fruit apex: Fruit pedicel length: Fruit pedicel width: Fusion of the pedicels: Unripe fruit peel color:

Straight/Slightly curved Blunt-tipped Slightly ridged Persistent flower relicts 11 to 20 mm >10 mm Partially fused Brown/Rusty-brown

Hands			Middle Fruit			
Hand No.	Weight (kg)	No. of fingers	Length (cm)	Width (cm)	Pedic	el (cm)
1			. ,	. ,	L	W
2	0.75	19	9.00	2.30	2.00	1.10
2	0.60	16	9.00	2.10	2.00	1.20
	0.65	16				
4	0.55	16				
5	0.50	15				
Total	3.05	82				
Mean	0.61	16	9.00	2.20	2.00	1.15





SAFET VELCHI

ITC-code: ITC0245 Genome: AB Subgroup: Ney Poovan Collection-Donor Country: CIRAD-France Accession Code: CIRAD II.04.21.001.001 Remarks: : Pink-purple (edge of petiole margin); Light green pseudostem; cream with pink shade tepal basic olor

Reaction to diseases:

•FOC TR4 : Highly resistant

•BBTV : 1.33 % Infection

MORPHOLOGICAL CHARACTERISTICS

PLANT GENERAL APPEARANCE Leaf habit: Erect

PSEUDOSTEM CHARACTERISTICS Pseudostem height: 380 cm

 Pseudostem girth:
 39 cm

 Pseudostem color(exposed): Light Green

 Pseudostem color(unexposed): Light Green

 Sap Color:
 Milky

 Wax on leaf sheaths:
 Very few

PETIOLE/MIDRIB/LEAF CHARACTERISTICS

Blotches at the petiole base:	Moderate blotching
Blotches color petiole base:	Brown
Petiole canal of the third leaf:	Margins curved inward
Petiole margin(winged):	Not Winged
Petiole margin(clasping):	Clasping
Petiole margin color:	Green
Edge of petiole margin:	Without color line along
Leaf blade length:	164 cm
Leaf blade width:	50 cm
Petiole length:	68 cm
Shape of leaf blade base:	Both sides rounded
Midrib ventral surface (color)	: Light Green
Cigar leaf outer surface(color)): Green

INFLORESCENCE/MALE BUD CHARACTERISTICS

Empty nodes on peduncle:	Two
Peduncle color:	Medium Green
Peduncle hairiness:	Hairless
Bunch position:	Hanging at 45 ⁰ angle
Bunch shape:	Asymmetrical
Bunch Appearance:	Lax
Rachis position:	Falling vertically
Male rachis appearance:	Neutral flowers on 1 to few
hands only near the b	unch; rest of the stalk is bare
Male bud shape:	Skinny
Male bud size at harvest:	L=23.50 cm; W=7.09 cm

BRACT CHARACTERISTICS

Bract base shape:Medium shoulderBract base apex (flatten):PointedBract imbrication:Moderately imbricatedBract external face (color):PurpleBract internal face (color):RedMale bract shoulder:High (0.21)Male bract lifting:Lifting 2 or more at a timeBract behavior before falling:Revolute

MALE FLOWER CHARACTERISTICS

	100
Compound tepal basic color:	Cream with pink shade
Compound tepal Lobe color:	Yellow
Anther color:	Yellow
CROP CYCLE	
Bunch weight:	3.70 kg
Peduncle Weight:	0.56 kg
Number of hands:	8

81

6

Number of fruits: Functional leaves at harvest:

FRUIT CHARACTERISTICS

Fruit shape:
Fruit apex:
Transverse section:
Flower relicts at fruit apex:
Fruit pedicel length:
Fruit pedicel width:
Fusion of the pedicels:
Unripe fruit peel color:

Straight/Slightly curved Lengthily pointed Rounded Persistent flower relicts 2.26 cm 0.74 cm Partially fused Light Green

Hands		Middle Fruit				
Hand No.	Weight	No. of	Length	Width	Pedic	el (cm)
	(kg)	fingers	(cm)	(cm)	L	W
1	0.30	12	8.05	2.20	2.40	0.85
2	0.30	12	8.15	2.35	2.05	0.72
3	0.29	12	7.02	2.18	1.92	0.70
4	0.25	12	6.82	2.08	2.39	0.65
5	0.20	10	6.72	2.19	2.29	0.75
6	0.20	10	6.25	2.36	2.30	0.71
7	0.80	10	5.88	2.25	2.50	0.85
8	0.80	3+9(a)	5.89	2.13	2.20	0.71
Total	3.14	81				
Mean	0.39	10.13	6.85	2.22	2.26	0.74

SAFET VELCHI



SIMILI RADJAH

ITC-code: ITC0123 Genome: ABB Subgroup: Peyan Collection-Donor Country: IITA-Nigeria Accession Code: CIV-132 Remarks: Susceptible to freckles; very waxy male bud; red purple male flower

Reaction to diseases:

•FOC TR4 : Highly resistant

•BBTV : 0.67 % Infection

MORPHOLOGICAL CHARACTERISTICS

PLANT GENERAL APPEARANCE Leaf habit: Intermediate

PSEUDOSTEM CHARACTERISTICS

Pseudostem height:460 cmPseudostem girth:59 cmPseudostem color(exposed): Light GreenPseudostem color(unexposed): Light GreenSap Color:MilkyWax on leaf sheaths:Very little

PETIOLE/MIDRIB/LEAF CHARACTERISTICS

Blotches at the petiole base:	Sparse blotching
Blotches color petiole base:	Brown
Petiole canal of the third leaf:	Straight with erect margins
Petiole margin(winged):	Not Winged
Petiole margin(clasping):	Clasping
Petiole margin color:	Green
Edge of petiole margin:	Without color line along
Leaf blade length:	227 cm
Leaf blade width:	68 cm
Petiole length:	50 cm
Shape of leaf blade base:	Both sides rounded
Midrib ventral surface (color)	: Medium Green
Cigar leaf outer surface(color): Green

INFLORESCENCE/MALE BUD CHARACTERISTICS

Empty nodes on peduncle:	Two
Peduncle color:	Medium Green
Peduncle hairiness:	Hairless
Bunch position:	Hanging vertically
Bunch shape:	Cylindrical
Bunch Appearance:	Lax
Rachis position:	Falling vertically
Male rachis appearance:	Bare
Male bud shape:	Skinny
Male bud size at harvest (cr	n): L=20.50; W=7.25

BRACT CHARACTERISTICS

Bract base shape:	Small shoulder
Bract base apex (flatten):	Obtuse
Bract imbrication:	Moderately imbricated
Bract external face (color):	Purple-brown
Bract internal face (color):	Orange-red
Male bract shoulder:	Medium (0.28)
Male bract lifting:	Lifting one at a time
Bract behavior before falling	g: Revolute

MALE FLOWER CHARACTERISTICS

Compound tepal basic color:	Red-purple
Compound tepal Lobe color:	Yellow
Anther color:	Yellow
CROP CYCLE	
Bunch weight:	17.99 kg

Bunch weight:	17.99 kg
Peduncle Weight:	2.85 kg
Number of hands:	8
Number of fruits:	111
Functional leaves at harvest:	8

FRUIT CHARACTERISTICS

Fruit shape:	Straight/Slightly curved
Fruit apex:	Lengthily pointed
Transverse section:	Rounded
Flower relicts at fruit apex: Only b	ase of the style persists
Fruit pedicel length:	≥21 mm
Fruit pedicel width:	>10mm
Fusion of the pedicels:	Partially fused
Ripe fruit peel color:	Bright Yellow
Unripe fruit peel color:	Green

Hands		Middle Fruit				
Hand No.	Weight	No. of	Length	Width	Pedicel (cm)	
	(kg)	fingers	(cm)	(cm)	L	W
1	2.45	14	14.92	4.45	3.80	1.22
2	2.25	14	14.18	4.32	3.32	1.22
3	2.35	16	13.60	4.35	4.13	1.12
4	1.90	12	13.05	4.00	3.16	1.32
5	2.00	16	12.30	4.05	3.20	1.01
6	1.80	16	12.30	4.01	2.98	1.08
7	1.74	15	11.25	3.98	3.15	1.04
8	0.65	8+10(a)	12.20	3.98	2.82	1.02
Total	15.14	111+10(a)				
Mean	1.89	14	12.98	4.14	3.32	1.13

*-no data available

SIMILI RADJAH



TANI

ITC-code: ITC1120 Genome: balbisiana Subgroup: IND BAL 101 Collection-Donor Country: IRFA-Guadeloupe Accession Code: CIRAD II.04.02.101.001 Remarks: Compact (bunch) Reaction to diseases: •FOC TR4 : Highly resistant

•BBTV : 0 % Infection

MORPHOLOGICAL CHARACTERISTICS

PLANT GENERAL APPEARANCE Leaf habit: Intermediate

PSEUDOSTEM CHARACTERISTICS Pseudostem height: 569 cm Pseudostem girth: 80.00 cm

Pseudostem color(exposed): Dark Green Pseudostem color(unexposed): Watery Green Sap Color: Milky Wax on leaf sheaths: Very waxy

PETIOLE/MIDRIB/LEAF CHARACTERISTICS

1		
	Blotches at the petiole base:	Sparse blotching
	Blotches color petiole base:	Dark Brown
	Petiole canal of the third leaf:	Margins curved inward
	Petiole margin(winged):	Winged
	Petiole margin(clasping):	Clasping
	Petiole margin color:	Medium Green
	Edge of petiole margin:	Without color line along
	Leaf blade length:	246 cm
	Leaf blade width:	77 cm
	Petiole length:	73 cm
	Shape of leaf blade base:	Both sides rounded
	Midrib ventral surface (color)	: Medium Green
	Cigar leaf outer surface(color)): Green

INFLORESCENCE/MALE BUD CHARACTERISTICS

Empty nodes on peduncle:	Three
Peduncle color:	Light Green
Peduncle hairiness:	Hairless
Bunch position:	Hanging vertically
Bunch shape:	Cylindrical
Bunch Appearance:	Very compact
Rachis position:	At an angle
Male rachis appearance:	Neutral flowers on 1 to few
hands only near the b	unch; rest of the stalk is bare
Male bud shape:	Medium
Male bud size at harvest:	L=23.00 cm; W=11.00 cm

BRACT CHARACTERISTICS

Bract base shape:	Small shoulder	
Bract base apex (flatten):	Obtuse	
Bract imbrication:	Moderate imbrication	
Bract external face (color):	Rusty-brown	
Bract internal face (color):	Orange-red	
Male bract shoulder:	Large (0.38)	
Male bract lifting:	Lifting 2 or more at a time	
Bract behavior before falling: Not Revolute		

Bract behavior before falling: Not Revolute

MALE FLOWER CHARACTERISTICS

Compound tepal basic color:	Yellow
Compound tepal Lobe color:	Bright Yellow
Anther color:	Yellow
CROP CYCLE Bunch weight:	18.44 kg

Peduncle Weight: 2.05 kg Number of hands: 13 Number of fruits: 158 Functional leaves at harvest: 15

FRUIT CHARACTERISTICS Fruit shape: Fruit apex: Transverse section: Flower relicts at fruit apex: Fruit pedicel length: Fruit pedicel width: Fusion of the pedicels: Unripe fruit peel color:

Slightly curved Bottle-necked Pronounced ridges Without any flower relicts ≥21 mm ≥10 mm Partially fused Green

Hands		Middle Fruit				
Hand No.	Weight	No. of	Length	Width	Pedic	el (cm)
	(kg)	fingers	(cm)	(cm)	L	W
1	1.00	8	14.68	4.15	4.48	1.38
2	1.50	14	15.17	4.17	4.25	1.22
3	1.75	16	14.45	4.02	3.70	1.25
4	1.36	13	14.66	4.01	4.08	1.22
5	1.45	12	13.86	4.21	3.86	1.21
6	1.50	12	13.91	4.41	3.72	1.29
7	0.80	7	12.47	4.17	2.84	1.29
8	1.55	14	12.58	4.32	2.03	1.22
9	1.60	14	13.40	4.43	2.70	1.27
10	1.15	14	11.42	3.79	2.43	1.20
11	1.25	16	11.62	4.29	2.88	1.27
12	1.23	15	11.46	4.04	2.27	1.11
13	0.25	3	11.20	4.29	2.50	1.22
Total	16.39	158				
Mean	1.26	12.15	13.14	4.18	3.21	1.24

TANI



ITC-code: ITC0825 Genome: AAB Subgroup: Iholena Collection-Donor Country: QDPI-Australia Accession Code: PNG196

Remarks: Perpendicular to the stalk (fruit position) Reaction to diseases:

•FOC TR4 : Highly resistant

•BBTV : 2.67 % Infection

MORPHOLOGICAL CHARACTERISTICS

PLANT GENERAL APPEARANCE Leaf habit: Intermediate

PSEUDOSTEM CHARACTERISTICS

SEUDOSTEM CHARAC	TERISTICS
Pseudostem height:	478 cm
Pseudostem girth:	77 cm
Pseudostem color(expo	sed): Green Yellow
Pseudostem color(unex	posed): Light Green
Sap Color:	Watery
Wax on leaf sheaths:	Very little

PETIOLE/MIDRIB/LEAF CHARACTERISTICS

Blotches at the petiole base:	Extensive pigmentation
Blotches color petiole base:	Brown
Petiole canal of the third leaf:	Wide with erect margins
Petiole margin(winged):	Not Winged
Petiole margin(clasping):	Clasping
Petiole margin color:	Green
Edge of petiole margin:	Without color line along
Leaf blade length:	300 cm
Leaf blade width:	71.0 cm
Petiole length:	63 cm
Shape of leaf blade base: On	e side rounded; one pointed
Midrib ventral surface (color)	: Light Green
Cigar leaf outer surface(color)): Green

INFLORESCENCE/MALE BUD CHARACTERISTICS

IN LONLOOLINOL/MALL DO	
Empty nodes on peduncle:	None
Peduncle color:	Green
Peduncle hairiness:	Hairy
Bunch position:	Hanging vertically
Bunch shape:	Cylindrical
Bunch Appearance:	Lax
Rachis position:	*
Male rachis appearance:	Neutral flowers on 1 to
hands only near the bi	unch; rest of the stalk is
Male bud shape:	*

Male bud size at harvest (cm):*

BRACT CHARACTERISTICS

Bract base shape:	*
Bract base apex (flatten):	*
Bract imbrication:	*
Bract external face (color):	*
Bract internal face (color):	*
Male bract shoulder:	*
Male bract lifting:	*
Bract behavior before falling	g:*

MALE FLOWER CHARACTERISTICS

MALE FLOWER CHARACTERISTIC	-2
Compound tepal basic color:	*
Compound tepal Lobe color:	*
Anther color:	*
CROP CYCLE	
Bunch weight:	3.12 kg
Peduncle Weight:	0.30 kg
Number of hands:	10
Number of fruits:	80
Functional leaves at harvest:	11
FRUIT CHARACTERISTICS	
Fruit shape:	Straight/
Fruit apex:	Lengthil
Transverse section:	Slightly r
Flower relicts at fruit apex:	Without
Fruit pedicel length:	≥21mm
Fruit pedicel width:	≥10 mm

Fusion of the pedicels: Unripe fruit peel color: Straight/ Slightly curved Lengthily pointed Slightly ridged Without flower relicts ≥21mm ≥10 mm No visible sign of fusion Yellow Green

· · · · · · · · · · · · · · · · · · ·						
Hands		Middle Fruit				
Hand No.	Weight	No. of	Length	Width	Pedic	el (cm)
	(kg)	fingers	(cm)	(cm)	L	W
1	1.75	21	13.50	3.00	2.50	1.00
2	1.45	18	13.00	3.00	3.00	1.10
3	1.35	16				
4	1.20	15				
5	1.10	16				
6	0.90	15				
7	0.90	15				
8	0.80	15				
9	0.65	15				
10	0.40	7				
11	0.55	12				
Total	11.05	165				
Mean	1.00	15	13.25	3.00	2.75	1.05

*-no data available

few bare

UZAKAN



ZEBRINA

ITC-code: ITC1177 Genome: Acuminata Subgroup: zebrina Collection-Donor Country: IRFA-Guadeloupe Accession Code: II.04.01.007.001 Remarks: Purple banana plant Reaction to diseases:

•FOC TR4 : Highly resistant

•BBTV : 4.67 % Infection

MORPHOLOGICAL CHARACTERISTICS

PLANT GENERAL APPEARANCE Leaf habit: Erect

PSEUDOSTEM CHARACTERISTICS

Pseudostem height:	381 cm	
Pseudostem girth:	29 cm	
Pseudostem color(exposed): Green yellow		
Pseudostem color(unexposed): Ivory		
Sap Color:	Milky	
Wax on leaf sheaths:	No visible sign	

PETIOLE/MIDRIB/LEAF CHARACTERISTICS

Blotches at the petiole base:	Extensive blotching
Blotches color petiole base:	•
Petiole canal of the third leaf	
Petiole margin(winged):	Not Winged
Petiole margin(clasping):	Clasping
Petiole margin color:	Green
Edge of petiole margin:	Without color line along
Leaf blade length:	172 cm
Leaf blade width:	35 cm
Petiole length:	63.75 cm
Shape of leaf blade base:	Both sides pointed
Midrib ventral surface (color)	: Medium Green
Cigar leaf outer surface(color): Red-purple

INFLORESCENCE/MALE BUD CHARACTERISTICS

Empty nodes on peduncle:	Two
Peduncle color:	Purple
Peduncle hairiness:	Hairy (velvet touch)
Bunch position:	Horizontal
Bunch shape:	Asymmetrical
Bunch Appearance:	Lax
Rachis position:	At an angle
Male rachis appearance:	Bare
Male bud shape:	Skinny
Male bud size at harvest:	L=12.90 cm; W=6.92 cm

BRACT CHARACTERISTICS

Small shoulder
Obtuse
Moderately imbricated
Purple
Orange-red
High (0.25)
Lifting 2 or more at a time
g: Revolute

MALE FLOWER CHARACTERISTICS

Compound tepal basic color: Compound tepal Lobe color: Anther color:	Cream Yellow Yellow
CROP CYCLE	
Bunch weight:	0.92 kg
Peduncle Weight:	0.47 kg

Peduncle Weight:	0.47 k
Number of hands:	8
Number of fruits:	112
Functional leaves at harvest:	7

FRUIT CHARACTERISTICS

Fruit shape:
Fruit apex:
Transverse section:
Flower relicts at fruit apex:
Fruit pedicel length:
Fruit pedicel width:
Fusion of the pedicels:
Unripe fruit peel color:

Straight Strongly bottle-necked Pronounced ridges Persistent flower relicts ≤10 mm 5 to 10 mm Partially fused Purple/green

Hands Middle Fruit						
Hand No.	Weight	No. of	Length	Width	Pedicel (cm)	
	(kg)	fingers	(cm)	(cm)	L	W
1	0.10	14	5.70	1.49	0.80	0.72
2	0.05	14	5.57	1.65	1.02	0.79
3	0.05	13	6.19	1.56	0.99	0.75
4	0.05	14	4.55	1.33	0.73	0.78
5	0.05	14	4.37	1.32	0.84	0.69
6	0.05	14	4.53	1.30	1.45	0.75
7	0.05	15	5.00	1.30	0.97	0.80
8	0.05	14	5.09	1.34	0.87	0.71
Total	0.45	112				
Mean	0.06	14.00	5.12	1.41	0.96	0.75



