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As of 2013, there were 46 varieties of plants that have been produced by the Breeders of IPB that published in the book of Superior Plant Variety of IPB third edition (2013). Some of those varieties have been launched by the Minister of Agriculture and have been registered on the Office of Plant Variety Protection, Ministry of Agriculture. Some varieties of IPB have been used by the public and has widespread distribution throughout Indonesia, for example Papaya Callina IPB that known by society as papaya California and several varieties of rice (3S, 4S). Another varieties like chili (IPB CH3), papaya, and melon have been collaborated with the private sector to the production to larger scale.

To support the promotion, socialization, and dissemination of various varieties of IPB, written information about the description or brief profile of plant varieties is very necessary that are made in the book of Superior Plant Variety Bogor Agricultural University. This book is the third edition, the first edition of this book was published in December 2010 and the second edition in September 2012. In the third edition, there are 5 additional new plant varieties, namely 1 variety of Black Soybean (IPB Krishna) and 4 varieties of chili (IPB Seroja, Anies IPB, IPB Bari, and SSP IPB). Varieties that have been produced by the breeder of IPB expected to contribute to strengthen food security and sovereignty in Indonesia, especially to farmers, through the provision of seed varieties based on local resources.

Correction, improvement, and additional information of this book, especially about the new varieties produced by IPB breeders will be made continously. Hopefully this book can provide information to the relevant stakeholders.

Bogor, December 1\textsuperscript{st}, 2013

Authors
Figures of Bogor Agricultural University
New Varieties Launching
Bogor, 3 October 2010 & 5 September 2012

It was held on Farmer Field Day), 47th Dies Natalis of Bogor Agricultural University (IPB), on 1 – 3 October 2010 at Leuwikopo Field Laboratory, Dramaga – Bogor

It was held on International Seminar “Agriculture Adaptation in the Tropics: Research Innovation toward Environment Resilience & Food Security” on 5-6 September 2012 at IPB International Convention Center, Bogor
**Description**

- **Group**: Cere
- **Growth duration**: ± 112 days
- **Plant Height**: ± 118 cm
- **Productive tillers**: 7 - 11
- **Form of plant**: upright
- **Lodging**: resistant
- **Threshing characteristic**: medium
- **Grain shape**: slim
- **Grain color**: straw yellow
- **Number of grain per plant**: 223
- **Average yield**: 7.0 ton/ha
- **Potential yield**: 11.2 ton/ha
- **1000-grain weight**: ± 28.2 gram
- **Boiled milled rice texture**: Good tasting
- **Content of amylose**: ± 21.6%

**Superiority**

- Mildly resistant to blast disease strain 033
- Resistant to tungro
- Mildly resistant to bacterial leaf blight strain III
- Well grown at irrigated land and rainfed 0 - 600 masl

**Breeder:**
Prof. Dr. Hajrial Aswidinnoor, Dr. Willy B. Suwarno, Dr. Desta Wirnas and Dr. Yudiwanti WE Kusumo

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Telp./Facs.: 0251-8629353
Description

- Group: Cere
- Growth duration: ± 112 days
- Plant Height: ± 114 cm
- Productive tillers: 8 - 12
- Form of plant: upright
- Lodging: resistant
- Threshing characteristic: medium
- Grain shape: slim
- Grain color: straw yellow
- Number of grain per plant: 218
- Average yield: 7.0 ton/ha
- Potential yield: 10.5 ton/ha
- 1000-grain weight: ± 27.6 gram
- Boiled milled rice texture: Good tasting
- Content of amylose: ± 22.3%

Superiority

- Mildly resistant to blast disease strain 033 and strain 073
- Resistant to tungro
- Mildly resistant to bacterial leaf blight strain III
- Well grown at irrigated land and rainfed 0 - 600 masl
## Description

- **Group**: Cere
- **Growth duration**: ± 116 days
- **Plant Height**: ± 97 cm
- **Productive tillers**: ± 9
- **Form of plant**: upright
- **Lodging**: resistant
- **Threshing characteristic**: medium
- **Grain shape**: slim
- **Grain color**: straw yellow
- **Number of grain per plant**: ± 183
- **Average yield**: 4.3 ton/ha
- **Potential yield**: 5.3 ton/ha
- **1000-grain weight**: ± 23.9 gram
- **Boiled milled rice texture**: Good tasting
- **Content of amylose**: ± 24.9%

## Superiority

- Mildly resistant to brown planthopper biotype 1
- Resistant to bacterial leaf blight strain III
- Mildly vulnerable to bacterial leaf blight strain VIII
- Well grown at tidal land and lebak

Breeder:
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### Superior Plant Varieties of IPB

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IPB BATOLA 6R

Rice
Release Decree No. 1115/Kpts/SR.120/3/2012

Description

- Group: Cere
- Growth duration: ± 117 days
- Plant Height: ± 95 cm
- Productive tillers: ± 9
- Form of plant: upright
- Lodging: resistant
- Threshing characteristic: medium
- Grain shape: slim
- Grain color: straw yellow
- Number of grain per plant: ± 186
- Average yield: 4.2 ton/ha
- Potential yield: 4.9 ton/ha
- 1000-grain weight: ± 25.1 gram
- Boiled milled rice texture: Good tasting
- Content of amylose: ± 26.3%

Superiority

- Mildly resistant to blast disease strain 033 and strain 133
- Resistant to bacterial leaf blight strain III
- Mildly resistant to bacterial leaf blight strain IV and VIII
- Well grown at tidal land and lebak

Breeder:
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Description

- Group: Cere
- Growth duration: ± 112 days
- Plant Height: ± 98 cm
- Productive tillers: ± 10
- Form of plant: upright
- Lodging: resistant
- Threshing characteristic: medium
- Grain shape: slim
- Grain color: straw yellow
- Number of grain per plant: ± 211
- Average yield: 4.5 ton/ha
- Potential yield: 5.1 ton/ha
- 1000-grain weight: ± 24 gram
- Boiled milled rice texture: Good tasting
- Content of amylose: ± 21.5%

Superiority

- Resistant to blast disease strain 033
- Mildly resistant to blast disease strain 073 and bacterial leaf blight strain III
- Tolerant to Fe and Al toxicity
- Well planted at tidal land and lebak

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IPB 1R DADAHUP

Rice
Release Decree No. 2563/Kpts/SR.120/7/2010

Description

- Growth duration: ± 110 days
- Plant Height: ± 115 cm
- Productive tillers: ± 10
- Lodging: resistant
- Panicle type: intermediate
- Panicle base: intermediate
- Threshing characteristic: medium
- Grain shape: narrow long
- Grain color: straw yellow
- Average yield: 4.2 ton/ha
- Potential yield: 5.1 ton/ha
- 1000-grain weight: ± 23 gram
- Boiled milled rice texture: Good tasting
- Content of amylose: ± 20%

Superiority

- Mildly resistant to brown planthopper biotype 2 and biotype 3
- Mildly resistant to blast disease strain 033 and strain 173
- Tolerant to Fe toxicity
- Well planted at tidal land and lebak

Breeder:
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**Description**

- Growth duration: ± 112 days
- Plant Height: ± 118 cm
- Productive tillers: ± 11
- Lodging: mildly resistant
- Panicle type: intermediate
- Panicle base: partly exerted
- Threshing characteristic: medium
- Grain shape: narrow long
- Grain color: straw yellow
- Average yield: 4.1 ton/ha
- Potential yield: 4.7 ton/ha
- 1000-grain weight: ± 23 gram
- Boiled milled rice texture: medium
- Content of amylose: ± 23%

**Superiority**

- Midly resistant to brown planthopper biotype 2 and biotype 3
- Resistant to blast disease strain 133, mildly resistant to strain 033 and strain 073
- Mildly resistant to bacterial leaf blight strain VIII
- Tolerant to Fe toxicity
- Well grown at tidal land and lebak
### Description

- **Origin**: IPB
- **Variety type**: open pollinated
- **Fruit type**: curly chili
- **Dichotomous (cm)**: 27.15
- **Plant height (cm)**: 97.74
- **Stem diameter (mm)**: 113.35
- **Canopy width (cm)**: 13.52
- **Time of flowering (DAP)**: 24.86
- **Time of harvest (DAP)**: 69
- **Fruit length (cm)**: 17.7
- **Stem end of fruit diameter (mm)**: 11.45
- **Middle part of fruit diameter (mm)**: 9.87
- **Blossom end of fruit diameter (mm)**: 1.74
- **Fruit weight (g)**: 5.98
- **Flesh of fruit thickness (mm)**: 1.33
- **Petiole length (cm)**: 3.65
- **Number of fruit**: 111.31
- **Productivity (ton/ha)**: 15.05
- **Potential productivity (kg/plant)**: 1.1

### Superiority

- High yield open pollinated variety of chili
- Suitable to plant in low to medium altitude
- Vigorous plant with plenty of fruits
- Curly chili type of fruit
- Bright glossy red fruit color
- Hot tasted
Description

- Origin: IPB
- Variety type: open pollinated
- Fruit type: big chili
- Dichotomous (cm): 18.46
- Plant height (cm): 76.23
- Stem diameter (mm): 11.18
- Time of flowering (DAP): 23.81
- Time of harvest (DAP): 67.90
- Stem end of fruit diameter (mm): 16.69
- Middle part of fruit diameter (mm): 14.04
- Blossom end of fruit diameter (mm): 2.04
- Fruit weigh (g): 8.33
- Fruit length (cm): 12.6
- Number of fruit: 98.93
- Produktivity (ton/ha): 11.79
- Potential productivity (kg/plant): 0.92

Superiority

- High yield open pollinated variety of chili
- Suitable to plant in low to medium altitude
- Vigorous plant with plenty of fruits
- Bright glossy red fruit color.

Researcher/Breeder:
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Release Decree No. 07/KPT/SR120D.2.7/7/2013
Variety Register No. 157/PVHP/2010
IPB CH1

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Chili
Variety Register No. 19/PVHP/2007

Description

- Origin: IPB
- Variety type: Singlecross hybrid
- Corolla color: purple
- Anther color: white
- Fruit cross section: weak sinuation
- Fruit color before maturity: brownish purple
- Fruit color after maturity: red
- Texture of surface: slightly wringkled
- Fruit shape: narrowly triangular
- Plant height (cm): 74,97
- Canopy width (cm): 87,10
- Stem length (cm): 17,81
- Time of flowering (DAP): 36,67
- Time of harvest (DAP): 85,00
- Fruit weight (g): 11,76
- Fruit length (cm): 13,62
- Fruit diameter (cm): 1,97
- Number of fruit: 71
- Total fruit weight (g): 828,35
- Fresh fruit weight (g): 818,10
- Produktivity (ton/ha): 16,6

Superiority

- High yield hybrid variety of chili
- Weight, length, and diameter are included Grade I according SNI
- Shape of fruit is straight and smooth
- Suitable to plant in low to medium altitude
- Hot taste (380 ppm capsaicin content) suitable for chili sauce industry.
**Description**

- **Origin**: IPB
- **Variety type**: Singlecross hybrid
- **Corolla color**: white
- **Anther color**: purple
- **Fruit cross section**: weak sinuation
- **Fruit color before maturity**: brownish purple
- **Fruit color after maturity**: red
- **Texture of surface**: slightly wringkled
- **Fruit shape**: narrowly triangular
- **Plant height (cm)**: 82.14
- **Canopy width (cm)**: 90.58
- **Stem length (cm)**: 20.08
- **Time of flowering (DAP)**: 34.67
- **Time of harvest (DAP)**: 82.00
- **Fruit weight (g)**: 12.86
- **Fruit length (cm)**: 13.43
- **Fruit diameter (cm)**: 1.77
- **Number of fruit**: 75
- **Total fruit weight (g)**: 965.59
- **Fresh fruit weight (g)**: 927.32
- **Produktivity (ton/ha)**: 19.31

**Superiority**

- High yield hybrid variety of chili
- Weight, length, and diameter are included Grade I according SNI
- Shape of fruit is straight and smooth
- Suitable to plant in low to medium altitude
- Hot taste (370 ppm capsaicin content) suitable for chili sauceindustry

Researcher/Breeder:
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**IPB CH3**

**Chili**

*Release Decree No. 257/Kpts/SR.120/5/2010, Variety Register No. 21/PVHP/2007*

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**Description**

- **Origin**: IPB
- **Variety type**: Hybrid
- **Stem color**: Green with pupleline
- **Stem shape**: Flat
- **Plant habit**: prostrate
- **Leaf color**: green
- **Leaf shape**: lanceolate
- **Peduncle attitude**: drooping
- **Corolla color**: white
- **Anther color**: purple
- **Tip of corolla**: intermediate
- **Fruit cross section**: weak sinuation
- **Intermediate fruit color**: brownish purple
- **Mature fruit color**: red
- **Texture of surface**: slightly wringkled
- **Fruit shape**: narrowly triangular
- **Plant height (cm)**: 97.37 ± 6.28
- **Canopy width (cm)**: 81.66 ± 2.48
- **Stem length (cm)**: 21.91 ± 0.71
- **Time of flowering (HST)**: 29.67 ± 3.01
- **Time of harvest (HST)**: 75.04 ± 6.28
- **Fruit weight (g)**: 11.29 ± 1.10
- **Fruit length (cm)**: 13.88 ± 1.00
- **Fruit diameter (cm)**: 1.40 ± 0.11
- **Number of fruit**: 54
- **Total fruit weight (g)**: 614.6 ± 95.41
- **Fresh fruit weight (g)**: 1.113.5
- **Productivity (ton/ha)**: 17.21

---

**Superiority**

- High yield hybrid variety of chili
- Suitable to plant at low to medium altitude
- Vigorous plant with plenty of fruit
- Bright red fruit color and glossy smooth fruit skin
- Hot taste with 377.66 ppm capsaicin content

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**Researcher/Breeder:**
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**Suprior Plant Varieties of IPB**
### Description

- **Origin**: IPB
- **Variety type**: Singlecross hybrid
- **Corolla color**: white
- **Anther color**: purple
- **Fruit cross section**: weak sinuation
- **Fruit color before maturity**: brownish purple
- **Fruit color after maturity**: red
- **Texture of surface**: slightly wringkled
- **Fruit shape**: narrowly triangular
- **Plant height (cm)**: 97,77
- **Canopy width (cm)**: 88,50
- **Stem length (cm)**: 25,202
- **Time of flowering (DAP)**: 39,33
- **Time of harvest (DAP)**: 85,33
- **Fruit weight (g)**: 8,18
- **Fruit length (cm)**: 12,34
- **Fruit diameter (cm)**: 1,25
- **Number of fruit**: 85
- **Total fruit weight (g)**: 699,06
- **Fresh fruit weight (g)**: 691,66
- **Productivity (ton/ha)**: 13,98

### Superiority

- Hybrid variety of chili with very hot taste (611 ppm capsaicin content) suitable for chili sauce industry
- Fruit shape is straight with smooth fruit skin
- Well adapted at low to medium altitude.

### Researcher/Breeder:
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**SELEKTA IPB**

**Description**

- **Origin**: IPB
- **Variety type**: Open pollinated variety
- **Plant height (cm)**: 83,8
- **Canopy width (cm)**: 89,3
- **Dichotomous height (cm)**: 25,3
- **Stem diameter (mm)**: 10,2
- **Leaf length (cm)**: 7,31
- **Leaf width (cm)**: 2,56
- **Peduncle attitude**: intermediate
- **Anther color**: purple
- **Filament color**: white
- **Corolla color**: white
- **Time of flowering (DAP)**: 21
- **Fruit shape**: narrowly triangular
- **Fruit color before maturity**: green
- **Intermediate fruit color**: green
- **Fruit color after maturity**: red
- **Texture of fruit surface**: smooth
- **Time of harvest (DAP)**: 80
- **Fruit diameter (mm)**: 18,2
- **Fruit length (cm)**: 16,1
- **Fruit weight (g)**: 17,0
- **Fruit weight per plant (g)**: 1.062,27

**Superiority**

- High yield open pollinated variety of chili
- Weight, length, and diameter are included Grade I according SNI
- Straight fruit shape and smooth fruit skin
- Suitable to plant at low to medium altitude

**Researcher/Breeder:**
Dr. Muhamad Syukur, Prof. Dr. Srian Sujiprihati (deceased), Dr. Rahmi Yunianti (deceased), Dr. Widodo, and Undang, SP

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**Description**

- **Origin**: IPB
- **Variety type**: 
- **Plant height (cm)**: 42,52
- **Canopy width (cm)**: 46,15
- **Dichotomous height (cm)**: 15,32
- **Stem diameter (mm)**: 7,9
- **Adaxial leaf color**: purple
- **Abaxial leaf color**: purple
- **Leaf length (cm)**: 6,49
- **Leaf width (cm)**: 2,73
- **Peduncle attitude**: erect
- **Anther color**: purple
- **Corolla color**: purple
- **Time of flowering (DAP)**: 35
- **Fruit shape**: cordate
- **Fruit color before maturity**: purple
- **Intermediate fruit color**: greenish purple
- **Fruit color after maturity**: red
- **Texture of fruit surface**: smooth
- **Time of harvest (DAP)**: 85
- **Fruit diameter (mm)**: 15,9
- **Fruit length (cm)**: 3,6
- **Fruit weight (g)**: 3,55
- **Fruit weight per plant (g)**: 130,65

**Superiority**

- Well adapted at low to medium altitude
- Suitable for ornamental plant
- High capsaicin content (1.651,26 ppm) as parental donor for high capsaicin content.

**Researcher/Breeder:**
Dr. Muhamad Syukur, Prof. Dr. Sriani Sujiprihati (deceased),
and Dr. Rahmi Yunianti (deceased)

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Telp./Facs.: 0251-8629353
**IPB PERISAI**

**Chili**

*Variety Register No. 160/PVHP/2010*

**Description**

- **Origin**: IPB
- **Variety type**: pure line
- **Plant height (cm)**: 54.29
- **Canopy width (cm)**: 60.45
- **Dichotomous height (cm)**: 7.3
- **Stem diameter (mm)**: 8.0
- **Leaf length (cm)**: 6.69
- **Leaf width (cm)**: 2.95
- **Peduncle attitude**: intermediate
- **Number of flower per axil**: 1
- **Anther color**: Bluish purple
- **Corolla color**: white
- **Time of flowering (DAP)**: 26
- **Fruit color before maturity**: dark green
- **Intermediate fruit color**: dark green
- **Fruit color after maturity**: red
- **Time of harvest (DAP)**: 90
- **Fruit diameter (mm)**: 16.6
- **Fruit length (cm)**: 11.3
- **Fruit weight (g)**: 5.78
- **Fruit weight per plant (g)**: 394.1

**Superiority**

- Well adapted at low to medium altitude
- Resistant to anthracnose caused by Colletotrichum acutatum and bacterial wilt.

**Researcher/Breeder:**
Dr. Muhammad Syukur, Prof. Dr. Srian Sujiprihati (deceased), Dr. Rahmi Yunianti (deceased), Dr. Widodo, and Dr. Sri Hendrastuti Hidayat

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**Chili**

**IPB MAKMUR**

**Description**

- Origin: IPB
- Variety type: pure line
- Canopy width (cm): 89.56
- Dichotomous height (cm): 16.6
- Corolla color: white
- Anther color: purple
- Time of flowering (DAP): 31.3
- Fruit cross section: weak situation
- Intermediate fruit color: purplish green
- Fruit color after maturity: red
- Texture of fruit surface: slightly wringkled
- Time of harvest (DAP): 83.0
- Fruit weight (g): 11.21
- Fruit length (cm): 8.43
- Fruit diameter (mm): 1.49
- Fruit weight per plant (g): 607.1
- Yield per hectare (ton): 12.1

**Superiority**

- Well adapted at low to medium altitude
- Resistant to Phytophthora strain 1
- Include the type of semi-curly
- Plenty number of fruit per plant and hot fruit taste

Researcher/Breeder:
Dr. Muhamad Syukur, Prof. Dr. Sriani Sujiprihati (deceased),
Dr. Rahmi Yunionti (deceased), and Siti Marwiyah, SP, MSi

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**Superior Plant Varieties of IPB**
IPB PERBANI

Chili
Variety Register No. 162/PVHP/2010

Description

- Origin: IPB
- Variety type: pure line
- Canopy width (cm): 71.67
- Dichotomous height (cm): 20.81
- Leaf color: green
- Leaf shape: lanceolate
- Peduncle attitude: intermediate
- Anther color: purple
- Corolla color: white
- Time of flowering (DAP): 33.0
- Fruit longitudinal section: weak sinuation
- Intermediate fruit color: orange
- Fruit color after maturity: red
- Texture of fruit surface: smooth
- Fruit shape: moderately triangular
- Time of harvest (DAP): 95.0
- Fruit weight (g): 17.89
- Fruit length (cm): 10.677
- Fruit diameter (cm): 2.38
- Total fruit weight (g/plant): 695.60
- Yield per hectare (ton): 13.9

Superiority

- Well adapted at low to medium altitude
- Tolerant to antracnose, CVMV, and Phytophthora strain 1
- Big fruit diameter, smooth skin fruit, and hot fruit taste

Researcher/Breeder:
Dr. Muhamad Syukur, Prof. Dr. Sriani Sujiprihati (deceased), and Dr. Rahmi Yunianti (deceased)

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**Description**

- **Class of varieties**: open pollinated
- **Plant height**: 20-30 cm
- **Canopy width**: 20-25 cm
- **Dichotomous Height**: 5-10 cm
- **Stem diameter**: 5-7 mm
- **Upper leaf color**: green
- **Bottom leaf color**: green
- **Leaf length**: 9.34 ± 0.03 cm
- **Leaf width**: 3.18 ± 0.02 cm
- **Flowers Orientation**: straight
- **Time of flowering**: 15-20 days after planting (DAP),
- **Time of harvest**: 65-70 DAP
- **Fruit length**: 3-4 cm
- **Fruit diameter**: 12-15 mm
- **Fruit stalk length**: 4.5 cm
- **Fruit weight**: 2-3.5 g
- **Weight of fruit per plant**: 130-200 g

**Superiority**

- There are several colors of fruit in a plant (yellow, purple tinge, purple, orange and red), there is a segment shortening, suitable for use as an ornamental plant, can be consumed (very spicy taste).

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**Researcher/Breeder:**
Dr. M. Syukur, et.al

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Description

- Class of varieties: open pollinated
- Plant height: 64.73 ± 2.24 cm
- Canopy width: 96.96 ± 1.99 cm
- High dichotomous: 22.60 ± 0.43 cm
- Stem diameter: 10.89 mm ± 0.09
- Leaf length: 9.34 ± 0.03 cm
- Leaf width: 3.18 ± 0.02 cm
- Time of flowering: 26.33 ± 1.15 days after planting (DAP)
- Time of harvest: 76.67 ± 4.16 DAP
- Fruit length: 14.81 ± 0.61 cm
- Fruit stalk length: 4.5 cm
- Fruit weight: 12-14 g
- Weight of fruit per plant: 742.15 ± 60.73 g

Superiority

- Adapting well to the lowlands, high productivity, early maturity and spicy flavor.
**Description**

- **Plants.** Habitus: intermediate; Canopy width: 80.78 cm
- **Stem.** Stems color: green with purple stripe; Stem books color: purple; Stems forms: a flattened; Dichotomous high: 18.73 cm
- **Leaves.** Leaf color: green; Leaf shape: lanceolate; Upper leaf color: green; Bottom leaf color: green; Leaf edges: flat; Leaf tip shape: tapered
- **Flower.** Flowers orientation: hanging; Flower crown color: white with purple base; Time of flowering: 30.0 Days after Planting (DAP)
- **Fruit.** Intermediate fruit color: purplish green; color of ripe fruit: red; fruit surface: smooth; fruit shape: elongated; Time of harvest: 90.6 DAP; Fruit weight: 12.46 g; Fruit length: 10.26 cm; Fruit diameter: 1.80 cm; Fruit weight total: 465 g / plant, yield per hectare: 9.3 tons
- **Seeds.** Seed color: straw yellow; Seed shape: flattened; weight of 1000 seeds: 6.59 to 7.03 g.

**Superiority**

- This variety is best used as a donor parent for phytophthora resistance to race 3.
**Description**

- **Plants.** Height: 66.80 cm ± 6.25; canopy width: 94.60 ± 9.73 cm; Habitus: intermediate.
- **Stem.** Stem color: green; Book color: purple; Dichotomous high: 22.58 ± 0.59 cm; stem diameter: 0.71 mm ± 10.50.
- **Leaves.** Leaf shape: ovate; Upper leaf color: green; Bottom leaf color: green; Leaf length: 10.12 ± 0.92 cm; Leaf width: 3.04 ± 0.01 cm.
- **Flowers.** Flowers orientation: hanging; Petals color: light green; color of the anthers: yellowish white; Time of flowering: 27.33 ± 3.06 DAP
- **Fruit.** Time of harvest: 75.00 ± 3.00 DAP; Fruit shape: elongated; Fruit intermediate color: purplish; Fruit ripe color: red; Fruit type: semi- curly; Fruit diameter: 12.72 ± 0.44 mm; Fruit length: 13.92 ± 1.63 cm; Number of fruit: 80.56 ± 15.40, Fruit weight: 10.24 ± 2.14 g; Fruit weight per plant: 706.75 ± 180.23 g.
- **Seed.** Seed color: straw yellow; Seed shape: flattened; Weight of 1000 seeds: 6.59 to 7.03 g.

**Superiority**

- Adapt well to the lowland (47-400 m asl), spicy flavor (capsaicin content: 966.64 ± 17.71 ppm).
**Description**

- **Time of flowering**: 35-45 days after planted
- **Time of harvest**: 110-115 days after planted
- **Tuber shape**: oblate
- **Tuber size**: height 5.5-9.2 cm, circumference 12.9-23.2 cm
- **Tuber skin color**: yellowish
- **Tuber eyes color**: pink
- **Tuber flesh color**: white
- **Carbohydrate content**: 15.15%
- **Sugar content**: 6.4 oBriks
- **Density**: 1.069 g/cm³
- **Tuber weight**: 30-260 gr
- **Total tubers weight per plant**: 775-890 gr
- **Number of tubers per plant**: 9-11 knol

**Superiority**

- **Tuber shelf live at room temperature**: 70-80 days after harvested
- **High yield potato**: 27-32 ton/ha
- **Well adapted at high altitude** (1.00-1600 m asl)
- **Resistant to bacterial wilt.**

**Researcher/Breeder:**
Prof. (Em) Dr. G.A. Wattimena, Dr. Agus Purwito,
Prof. Dr. Nurhayati Ansori Mattjik, Armini Wendi, dan
Nia Dahniar, cooperate with BPSBTPH Jawa Barat and CV
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Zalacca
Release Decree No. 2092/Kpts/SR.120/5/2009
Variety Register No. 62/PVL/2008

Description

- Fruit shape: cone and round/short triangle
- Fruit height (cm): 6.5-8.0
- Fruit diameter (cm): 5.2-6.2
- Fruit skin color: Yellowish brown
- Fruit flesh thickness (cm): 0.4-0.9
- Fruit flesh color: yellowish white
- Fruit weight (gram): 80-125
- Number of fruit per cluster: 20-55
- Sweetness: 11-15 oBriks

Superiority

- Thick fruit flesh (0.4-0.9 cm)
- Relatively big sized fruit (80-125 gram)
- Sweet tasted fruit (11-15 oBriks)

Researcher/Breeder:
Dr. M. Rahmad Suhartanto and Dr. M. Syukur cooperated with BPSBTPH West Java Province and Department of Agriculture Tasikmalaya Regency

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24 Superior Plant Varieties of IPB
**Description**

- Time of flowering: 30-33 days after planted
- Time of harvest: 60-62 days after planted
- Fruit shape: medium elliptical
- Fruit skin color: yellow
- Fruit flesh color: light green
- Fruit flesh thickness: ± 2 cm
- Fruit height: ± 16 cm
- Fruit diameter: ± 12 cm
- Fruit weight: 1.0-1.5 kg
- Sweetness: ± 12.5 °Briks

**Superiority**

- Yellow fruit skin color
- Light green fruit flesh color
- Crispy fruit flesh texture
- Sweet tasted
- Suitable for greenhouse growing

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**Variety Register No. 23/PVHP/2007**

**Honeydew**

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**Researcher/Breeder:**
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**Superior Plant Varieties of IPB** 25
**Honeydew**

**Superior Plant Varieties of IPB**

**Description**

- Time of flowering: 24-25 days after planted
- Time of harvest: 59-62 days after planted
- Potential yield: 24,4 - 28 ton/ha
- Cork formation: absent
- Fruit shape: broad elliptical
- Fruit skin color: white
- Fruit flesh color: orange
- Fruit flesh thickness: 2,5-3,3 cm
- Fruit height: 14,1-17,3 cm
- Fruit diameter: 11,4-13,6 cm
- Fruit weight: 1,52-2,23 kg
- Sweetness: 11,4-14,8 °Briks
- Edible potion: 62,6-74,6 %

**Superiority**

- White fruit skin color
- Orange fruit flesh color
- Crispy fruit flesh texture
- Sweet tasted
**Description**

- Time of flowering: 24-25 days after planted
- Time of harvest: 59-63 days after planted
- Potential yield: 25.8-28.5 ton/ha
- Fruit shape: medium elliptical
- Cork formation: absent
- Fruit skin color: yellow
- Fruit flesh color: orange
- Fruit flesh thickness: 2.46-3.32 cm
- Fruit height: 16.3-19.5 cm
- Fruit diameter: 11.2-13.5 cm
- Fruit weight: 1.60-2.12 kg
- Sweetness: 12.0-14.8 °Brix
- Edible portion: 62.3 - 76.3%

**Superiority**

- Yellow fruit skin color
- Orange fruit flesh color
- Crispy fruit flesh texture
- Sweet tasted

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**Researcher/Breeder:**
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**Honeydew**

**Variety Register No. 210/PVHP/2009**

**Description**

- Time of flowering: 24-25 days after planted
- Time of harvest: 55-60 days after planted
- Potential yield: 25.1-28.3 ton/ha
- Fruit shape: medium elliptical
- Cork formation: absent
- Fruit skin color: white
- Fruit flesh color: orange
- Fruit flesh thickness: 2.87-3.00 cm
- Fruit height: 14.3-16.3 cm
- Fruit diameter: 12.1-13.9 cm
- Fruit weight: 1.20-1.63 kg
- Sweetness: 9.8-13.0 °Briks
- Edible portion: 62.1 - 74.2%

**Superiority**

- Yellow fruit skin color
- Orange fruit flesh color
- Soft fruit flesh texture
- Sweet tasted

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**Researcher/Breeder:**
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**Description**

- Time of flowering: 26-28 days after planted
- Time of harvest: 58-60 days after planted
- Fruit shape: circular
- Cork formation: absent
- Fruit skin color: cream
- Fruit flesh color: white
- Fruit flesh thickness: ± 4 cm
- Fruit height: ± 14 cm
- Fruit diameter: ± 12 cm
- Fruit weight: 1.0 - 1.5 kg
- Sweetness: ± 10,5 °Briks

**Superiority**

- Cream fruit skin color
- White fruit flesh color
- Soft fruit flesh texture
- Sweet tasted

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**Researcher/Breeder:**
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RAJA BULU KUNING

Banana

Description

- Plant Height: 4-6 m
- Time of presence of male inflorescence: 10-11 months after transplanted
- Time of harvest: 12-15 months after transplanted
- Peel color after maturity: bright yellow
- Fruit flesh color: pinkish yellow
- Fruit weight: 110-120 gram
- Fruit weight per bunch: 12-15 kg
- Number of hand per bunch: 5-7
- Fruit length: 15-18 cm
- Fruit circumference: 11-12 cm
- Sweetness: 28-31.4 Brix

Superiority

- Early maturity/need shorter time to fruit than other Pisang Raja (12-15 months)
- Bright yellow fruit peel, good flavor, and sweet taste
- High caroten content (88.3 mcg/100 g)
- Low glikemic index (54%) so this banana is safe to be consumed by diabetician
- Can be consumed fresh or processed
- Good fruit appearance, fruit not easily loose from its hand
- Strong roots so resistant to lodging

Researcher/Breeder:
Dr. M. Rahmad Suhartanto, Prof. Dr. Sriani Sujiprihati (deceased), Heri Harti, SP, MSi, and Naekman

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Description

- Plant Height: 5.0-6.5 m
- Time of presence of male inflorescence: 12-13 months after transplanted
- Time of harvest: 16-17 months after transplanted
- Potential yield: 40-41 kg/plant
- Peel color after maturity: yellow
- Fruit flesh color: yellow
- Fruit weight: 105-158 gram
- Fruit weight per bunch: 2.1-3.5 kg
- Fruit length: 10.0-16.0 cm
- Fruit circumference: 4.1-4.5 cm
- Sweetness: 20.29-23.80 °Brix

Superiority

- Male inflorescence is run out after fruit formation, so plant could avoid blood disease
- Soft peeled and sweet tasted (20.2-23.8 °Brix)
- High yield (more than 40 kg/bunch)
- Good fruit appearance, fruit not easily loose from its hand
- Strong roots so resistant to lodging
ARUM BOGOR (IPB1)

Superior Plant Varieties of IPB

Description

- Time of flowering: 4 months after planted
- Time of harvest: 7 months after planted
- Fruit shape: elliptical
- Fruit skin color: green
- Fruit flesh color: red orange
- Fruit length: 13.2-15.5 cm
- Fruit diameter: 9.1-11.5 cm
- Fruit weight: 510-800 g
- Sweetness: 11-12 ° Brix
- Edible portion: 80.12 - 84.20%

Superiority

- Practical, because the fruit size is small and the fruit flesh texture is soft, so it could be consumed by one person with spoon
- Fruit shape is elliptical and uniform
- Very sweet fruit flesh taste, good flavor
- Red or orange fruit flesh color

Researcher/Breeder
Prof. Dr. Sriani Sujiprihati (deceased)

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CARISYA (IPB3)

Description

- Time of flowering: 4 months after planted
- Time of harvest: 7 months after planted
- Potential yield: 23.8 - 33.7 kg/plant/4 month
- Fruit shape: elliptical
- Fruit skin color: dark green
- Fruit flesh color: red orange
- Fruit length: 16.2-17.8 cm
- Fruit diameter: 7.6-8.4 cm
- Fruit weight: 497.9 - 648.7 g
- Sweetness: 9.3 - 14.3° Brix
- Edible portion: 80.12 - 84.20 %

Superiority

- Practical, because the fruit size is small and the fruit flesh texture is soft, so it could be consumed by one person with spoon
- Very sweet fruit flesh taste and medium firm texture of fruit flesh
- Red or orange fruit flesh color
- No presence of 'bird' smell, so could be liked by consument (adult or children)
- Shelf life at room temperature up to 7 days

Researcher/Breeder:
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CALLINA (IPB9)

Researcher/Breeder:
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Description

- Time of flowering: 4 months after planted
- Time of harvest: 8.5 months after planted
- Fruit shape: cylindrical
- Fruit skin color: olive green
- Fruit flesh color: orange
- Fruit length: 23-24 cm
- Fruit diameter: 9.2-9.5 cm
- Fruit weight: 1200-1300 g
- Sweetness: 10.1-11.2 °Brix
- Edible portion: 82.9 - 85.7 %

Superiority

- Cylindrical, bullet-like, fruit shape
- Smooth and green colored fruit skin
- Sweet fruit flesh taste
- Thick and firm fruit flesh
- Long shelf life (more than a week)
- Short time to fruit and short plant

Papaya
Release Decree No. 2108/Kpts/SR.120/5/2010
### Description

- **Time of flowering**: 4 months after planted
- **Time of harvest**: 8.5 months after planted
- **Potential yield**: 50-76 ton/ha/year
- **Fruit shape**: Ovoid
- **Fruit skin color**: Dark green
- **Fruit flesh color**: Red orange
- **Fruit length**: 30-35 cm
- **Fruit diameter**: 13.2-13.8 cm
- **Fruit weight**: 2436 - 3136 g
- **Sweetness**: 11.0-12.8 °Brix
- **Edible portion**: 80.2 - 85.7%

### Superiority

- Big sized fruit
- Smooth and green colored fruit skin
- Sweet fruit flesh taste
- Orange fruit flesh color
- Soft fruit flesh
- Long shelf life (more than a week)
CARLIA (IPB4)

Papaya

Description

- Time of flowering: 4 months after planted
- Time of harvest: 7 months after planted
- Fruit shape: elliptical
- Fruit skin color: yellow
- Fruit flesh color: orange
- Fruit length: 14.5-16.0 cm
- Fruit diameter: 8.0-9.0 cm
- Fruit weight: 417-583 g
- Sweetness: 9.5-11.0° Brix
- Edible portion: 80.2-85.8%

Superiority

- Fruit shape is elliptical and uniform
- Exotic, bright yellow skin color
- Sweet tasted fruit flesh
- Orange fruit flesh color
- Small sized fruit, could be consumed at once

Researcher/Breeder:
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WULUNG BOGOR (IPB10)

Variety Register No. 28/PVHP/2007

Researcher/Breeder:
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Description

- Fruit shape: elliptical
- Fruit size: big (> 2 kg)
- Time of flowering: 118 days after planted
- Fruit skin color: green
- Fruit flesh color: red orange
- Pest resistant: anthracnose, thrips, mite
- Sap production per fruit: 25.23 gram
- Sapping: 9 times
- Crude papain weight per fruit: 3.35 gram
- Sap water content: 89.27%
- Sap rendement: 13.28%
- Proteolitic activity of crude papain: 1.102.34 mcu/gram

Superiority

- Big sized fruit
- Smooth texture of fruit skin
- High yield of sap
- Relatively resistant to anthracnose
### Superiority

- Upright crown attitude
- Bright yellow fruit flesh color and uniform
- Firm fruit flesh texture
- Cylindrical fruit shape, suitable for canned pineapple industry
- Shallow eye profile
- Strong fruit aroma
- Spineless

### Description

- **Leaf spine**: no
- **Time of flowering**: 14-15 months after planted
- **Time of harvest**: 16-17 months after planted
- **Potential yield**: 60-75 ton/ha
- **Fruit skin color**: yellow with green accent
- **Fruit flesh color**: bright yellow
- **Fruit weight**: 1200-1500 g
- **Fruit length**: 14,1-16,5 cm
- **Middle part of fruit diameter**: 11-13 cm
- **Fruit core diameter**: 2-3 cm
- **Sweetness**: 12-19 °Brix
- **Acidity (pH)**: 3,0-4,5
Description

- **Plant height**: 100.9 ± 5 cm
- **Reference leaf width**: 62 ± 10 cm
- **Leaf spine**: present, along all margin
- **Time of anthesis**: 11 ± 2 months after planted
- **Time of harvest**: 137 ± 7 days after planted
- **Fruit weight**: 900 ± 100 g
- **Sweetness**: 16 ± 2 °Brix
- **Ca oxalat**: 640 ppm
- **Bromelain activity**: 1.78 unit/gram

Superiority

- Sweet tasted fruit
- Sweet fruit core (edible)
- Low water content of fruit so suitable for drying process
- Bright yellow fruit flesh color
- Relatively long shelf life (10-15 days after harvested)
- Relatively few numbers of slips so easier to do husbandry
DELlKA SUBANG

Description

- Plant height: 101 ± 10 cm
- Reference leaf width: 86 ± 10 cm
- Leaf spine: present, at leaf tip only
- Time of anthesis: 12 ± 2 months after planted
- Time of harvest: 147 ± 7 days after planted
- Fruit weight: 2000 ± 200 g
- Sweetness: 16 ± 2 °Brix
- Ca oxalat: 704 ppm
- Bromelain activity: 1,31 unit/gram

Superiority

- Big sized fruit
- Cylindrical fruit shape
- Sweet tasted fruit
- Low Ca-oxalat content so no itch taste
- Shallow eye profile
- Bright yellow fruit flesh color
- Spineless

Researcher/Breeder:
Prof. Dr. Sobir

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Website: http://www.pkht.or.id/; http://pkbt.ipb.ac.id/
Mangosteen
Release Decree No. 2046/Kpts/SR.120/5/2010

Description

- Fruit shape: spherical
- Fruit skin color: purplish red
- Fruit flesh color: snow white
- Fruit flesh texture: smooth fiber less
- Fruit weight: 74.8 - 93.6 gram
- Number of segment per fruit: 6 - 7 segments
- Number of fruit per plant: 2100 - 2600
- Sweetness: 18.65 ° Brix
- Potential yield: 157 - 243 kg/plant/year

Superiority

- Spherical shape and relatively uniform
- Little sized fruit, mostly seedless or if there is any seed it's little
- Ripe fruit color is bright red and will change to purplish red

Researcher/Breeder:
Prof. Dr. Roedhy Poerwanto, Dr. Darda Efendi, Endang Gunawan, SP, MSi, Kusuma Darma, SP, MSi, and Ir. Ellina Mansyah, MP, cooperated with Dinas Pertanian dan Kehutanan Kabupaten Bogor serta BPSBTPH Jawa Barat.

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Website: http://www.pkht.or.id/; http://pkbt.ipb.ac.id/
Mangosteen

Description

- Fruit shape: oblong
- Fruit size: big (DL 10 - 12 cm; DT 7 - 8 cm)
- Fruit skin color: purple
- Fruit flesh color: snow white
- Fruit flesh texture: smooth
- Fruit weight: 200 - 250 gram
- Number of segment per fruit: 6 - 8 segments
- Sweetness: 15 ° Brix
- Potential yield: 100 - 200 kg/plant/year

Superiority

Very big sized fruit with small seed
### Description

- **Fruit shape**: spherical
- **Fruit size**: small (DL 4.0-5.0 cm; DT 4.5-5.2 cm)
- **Fruit skin color**: purplish red
- **Fruit skin texture**: smooth
- **Fruit flesh color**: white
- **Fruit flesh texture**: smooth fiber less
- **Fruit weight**: 130-180 gram
- **Number of segment per fruit**: 6 - 7 segments
- **Sweetness**: 14° Brix

### Superiority

- Adaptive on high altitude

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**Researcher/Breeder:**

Prof. Dr. Sobir, Endang Gunawan, SP, MSi, and Kusuma Darma, SP, MSi, cooperated with Dinas Pertanian dan Ketahanan Pangan Kabupaten Rejang Lebong dan BPSBTPH Provinsi Bengkulu

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Website: [http://buah.ipb.ac.id](http://buah.ipb.ac.id)
**WANAYASA**

**Mangosteen**

Release Decree No. 571/Kpts/SR.120/9/2006

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### Description

- **Fruit shape**: spherical
- **Fruit size**: big (DL 4.5 - 5.5 cm; 3.0 - 4.5 cm)
- **Fruit skin color**: purplish red
- **Fruit skin texture**: smooth
- **Fruit flesh color**: milky white
- **Fruit flesh texture**: smooth fiber less
- **Fruit weight**: 90-110 gram
- **Number of segment per fruit**: 6 - 7 segments
- **Sweetness**: 17.75 ° Brix

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### Superiority

Could retain fresh green color of its stigma lobe up to 10 days after harvested

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Researcher/Breeder:
Dr. Darda Efendi, Endang Gunawan, SP, MSi, and Ir. Ellina Mansyah, MP, cooperated with BPSBTPH Provinsi Jawa Barat dan Dinas Pertanian Purwakarta

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Description

- Fruit shape: oblong
- Fruit size: big (DL 4.45–6.41 cm; DT 4.15–6.08 cm)
- Fruit skin color: dark purple
- Fruit skin texture: smooth
- Fruit flesh color: white
- Fruit flesh texture: smooth fiber less
- Fruit weight: 50-131.2 gram
- Number of segment per fruit: 6 - 7 segments
- Sweetness: 15° Brix

Superiority

Big sized fruit and uniform, 80% included to grade A and B.

Researcher/Breeder:
Prof. Dr. Roedhy Poerwanto, Prof. Dr. Sobir, MSi, and Kusuma Darma, SP, MSi, cooperated with BPSBTPH Provinsi Jawa Barat dan Dinas Pertanian Tanaman Pangan Kabupaten Tasikmalaya

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Website: http://www.pkht.or.id/; http://pkbt.ipb.ac.id/
Description

- Origin: selected from Ceneng x Slamet
- Selection No.: SC-39-1
- Hypocotyl color: purple
- Flower color: purple
- Leaf shape: lanceolate
- Leaf color: dark green
- Pod color: brown
- Seed color: black
- Hilum color: black
- Type of growth: determinate
- Plant height: 48 cm
- Time of flowering: 37 days after planting (DAP)
- Time of harvest: 83 DAP
- Weight of 100 seeds: 10 grams
- Protein content: 40.41%
- Fat content: 12.68%

Superiority

- IPB KRESNA-15 have high protein content as raw materials of soy dairy that can add value.
- IPB KRESNA-15 have a good shelf life at room temperature, even though the seeds have been stored at room temperature over 3 months, the growth power is still good.
- IPB KRESNA-15 can be used as intercrops / intercropping
- IPB KRESNA-15 is adaptive at wetland and upland
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