



EAST-WEST SEED
CAP PANAH MERAH

WORKSHOP PENGISIAN DATA PASPOR & DATA KARAKTERISASI SUMBER DAYA GENETIK SAYURAN



Paspor Data digunakan untuk mengetahui asal usul plasma nutfah dan taksonomi dari plasma nutfah tersebut. Data yang disajikan dalam paspor meliputi :

1. Tanggal perolehan plasma nutfah
2. Nomor akses
3. Nama kultivar/varietas/galur/klon,
4. Asal plasma nutfah didapatkan (kabupaten asal, provinsi asal serta negara asal)
5. Taksonomi
6. Status ketersediaan (Availability Status)
7. Keterangan lain

Data Karakterisasi merupakan data mengenai sifat morfologi dan agronomi dari plasma nutfah yang diperoleh dari pengamatan dan pengukuran saat perbanyakan plasma nutfah.

Data Karakterisasi meliputi :

1. Data Saat Fase Vegetatif (Bibit, Batang dan Daun)
2. Data Saat Fase Generatif (Bunga, Buah dan Biji)

Jenis Plasma Nutfah



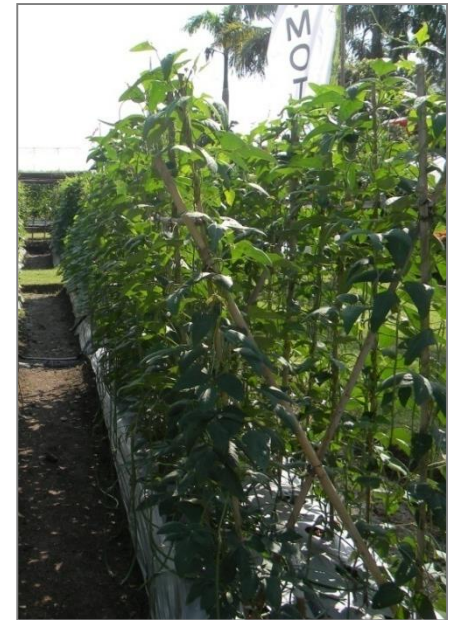
Terong

Cabai Rawit



Mentimun


Kacang Panjang



UPOV

*International Union for the Protection of
New Varieties of Plants*

E



TG/61/7 Rev. 2 Corr.
ORIGINAL: English
DATE: 2007-03-28 + 2014-04-09
+ 2015-03-25 + 2016-08-11

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
GENEVA

CUCUMBER, GHERKIN
UPOV Code: CUCUM_SAT
Cucumis sativus L.

**GUIDELINES
FOR THE CONDUCT OF TESTS
FOR DISTINCTNESS, UNIFORMITY AND STABILITY**

Alternative Names:*

Botanical name	English	French	German	Spanish
<i>Cucumis sativus</i> L.	Cucumber, Gherkin	Concombre, Cornichon	Gurke	Pepino, Pepinillo

The purpose of these guidelines ("Test Guidelines") is to elaborate the principles contained in the General Introduction (document TG-1/3), and its associated TGP documents, into detailed practical guidance for the harmonized examination of distinctness, uniformity and stability (DUS) and, in particular, to identify appropriate characteristics for the examination of DUS and production of harmonized variety descriptions.


ASSOCIATED DOCUMENTS

These Test Guidelines should be read in conjunction with the General Introduction and its associated TGP documents.


* These names were correct at the time of the introduction of these Test Guidelines but may be revised or updated. [Readers are advised to consult the UPOV Code, which can be found on the UPOV Website (www.upov.int), for the latest information.]

IPGRI

*International Plant Genetic
Resources Institute*



Descriptors for
Melon
Cucumis melo L.



AVRDC

*Asian Vegetable Research and
Development Center*

AVRDC-GRSU CHARACTERIZATION RECORD SHEET

Crop: PEPPER	Accession No. _____
Sowing Date _____	Plot No. _____
Transplanting Date _____	Name _____
Location _____	Species _____
	Origin _____

SEEDLING DATA

C110 Hypocotyl color (terminal bud 1-2 mm) _____
 1 = Green 2 = 1/4 purple from the base 3 = 1/2 purple from the base
 4 = Purple X = Mixture

C120 Hypocotyl color intensity _____
 3 = Light 5 = Medium 7 = Dense X = Mixture

C130 Cotyledonous leaf length (mm) (N=10) _____

C140 Cotyledonous leaf width (mm) (N=10) _____

C150 Cotyledonous leaf shape _____
 3 = Deltoid 5 = Ovale 7 = Lanceolate X = Mixture

Pengisian Data Paspor



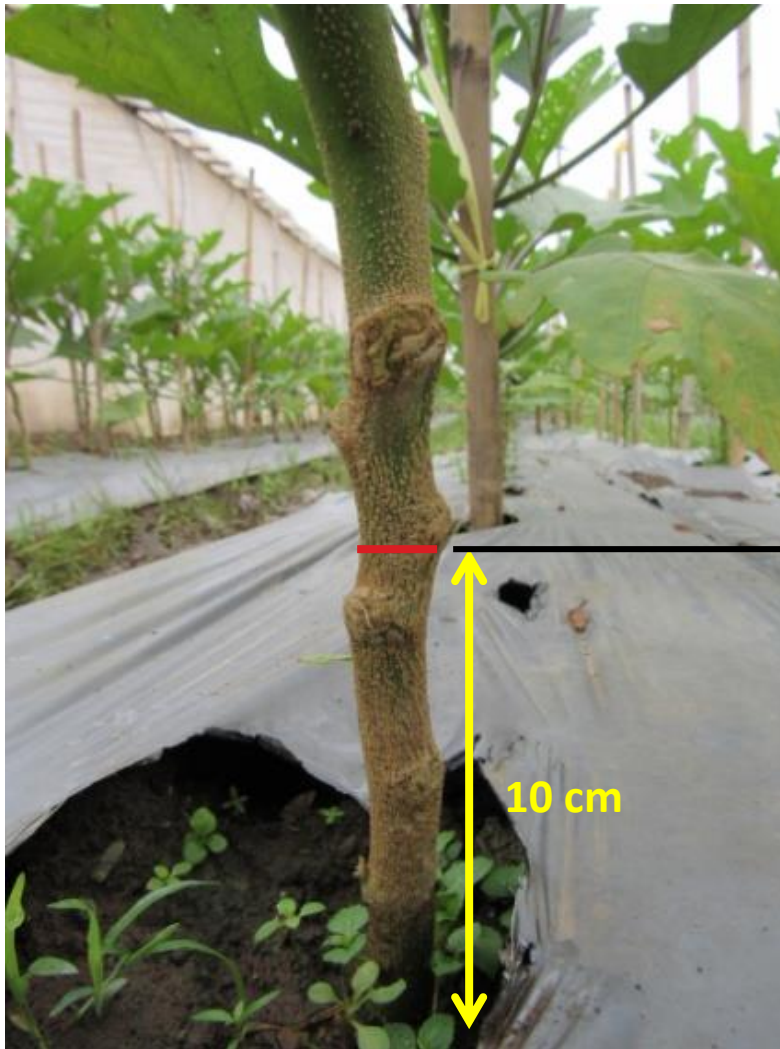
Incoming Date	Cultivar	
05/16/2016	LOKAL CIPATAT	
Donor Number	Donor Institute	
CR 19255	EWINDO	
Donor Address		
PURWAKARTA		
Sender Name		
ADI SETYADI, BREEDING B		
Family	Subtaxa	
SOLANACEAE	-	
Collector Name	Collection Date	Province
BREEDING B, R&D EWINDO	05/16/2016	JAWA BARAT
Collection Site	Country	Altitude
PURWAKARTA	INDONESIA	-
Collection Source	Distribution Status	
CIPATAT	(AVAILABLE / NOT AVAILABLE)	
Year	Season	
2016	RAINY	

PENGISLAN DATA KARAKTERISASI

Karakterisasi Terong

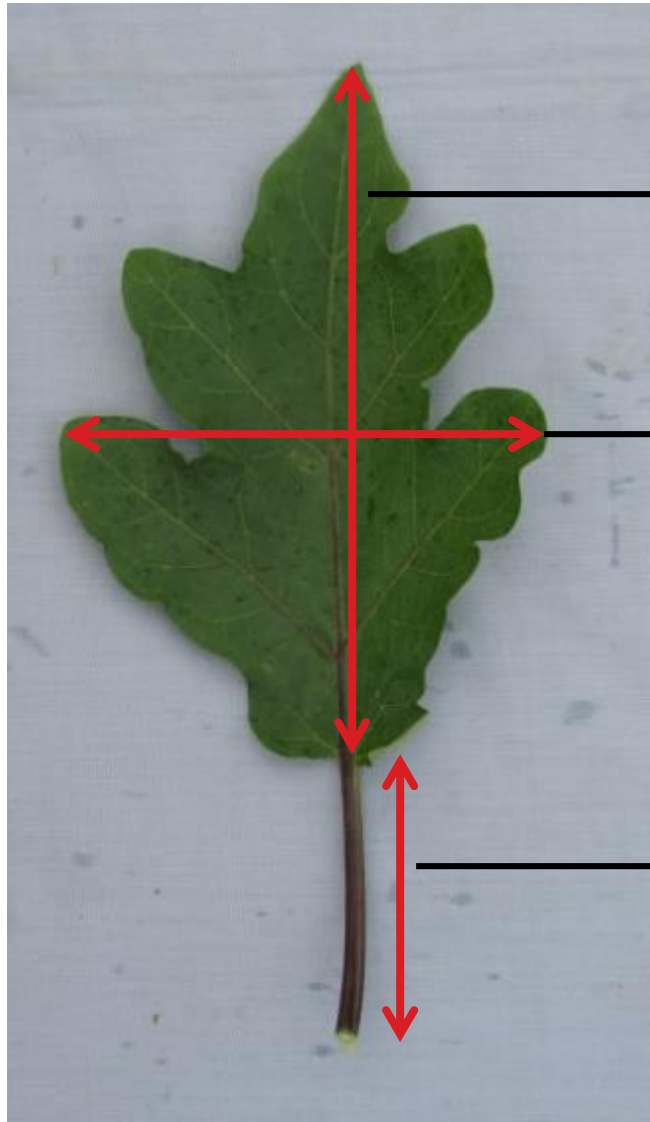
Descriptor Name	Value
Seedling Data	
Hypocotil color (<i>warna hipokotil</i>)	
Anthocyanin Level (<i>tingkat antocian</i>)	Weak / Medium / Strong
Vegetative Data	
Plant Habit (<i>tipe tumbuh</i>)	Erect / Semi Erect / Horizontal
Plant Height (<i>tinggi tanaman</i>)	(cm)
Stem Color (<i>warna batang</i>)	
Stem Diameter (<i>diameter batang</i>)	(cm)
Spines on Stem (<i>duri pada batang</i>)	Present / Absent
Internode Length (<i>panjang buku</i>)	(cm)
Leaf Shape (<i>bentuk daun</i>)	
Leaf Margin (<i>tepi daun</i>)	Serrated / Medium Serrated / No Serrated
Leaf Color (<i>warna daun</i>)	
Leaf Length (<i>panjang daun</i>)	(cm)
Leaf Width (<i>lebar daun</i>)	(cm)
Spines on Leaf (<i>duri pada daun</i>)	Present / Absent
Leaf Hairiness (<i>bulu daun</i>)	Present / Absent
Petiole Color (<i>warna tangkai daun</i>)	
Petiole Length (<i>panjang tangkai daun</i>)	(cm)
Inflorescence Data	
Days to Flower (<i>umur mulai berbunga</i>)	No. of days from sowing till first flower opening (DAT)
Inflorescence Type (<i>tipe bunga</i>)	Single Cluster / Multi Cluster
Flower Shape (<i>bentuk bunga</i>)	Star / Rounded / Others
Sepal Color (<i>warna kelopak</i>)	
Petal Color (<i>warna mahkota</i>)	
Stamen Color (<i>warna benangsari</i>)	
Pistil Color (<i>warna putik</i>)	
Stigma Position (<i>posisi kepala putik</i>)	Inside / Outside

Batang Terong



Diameter Batang

Daun Terong

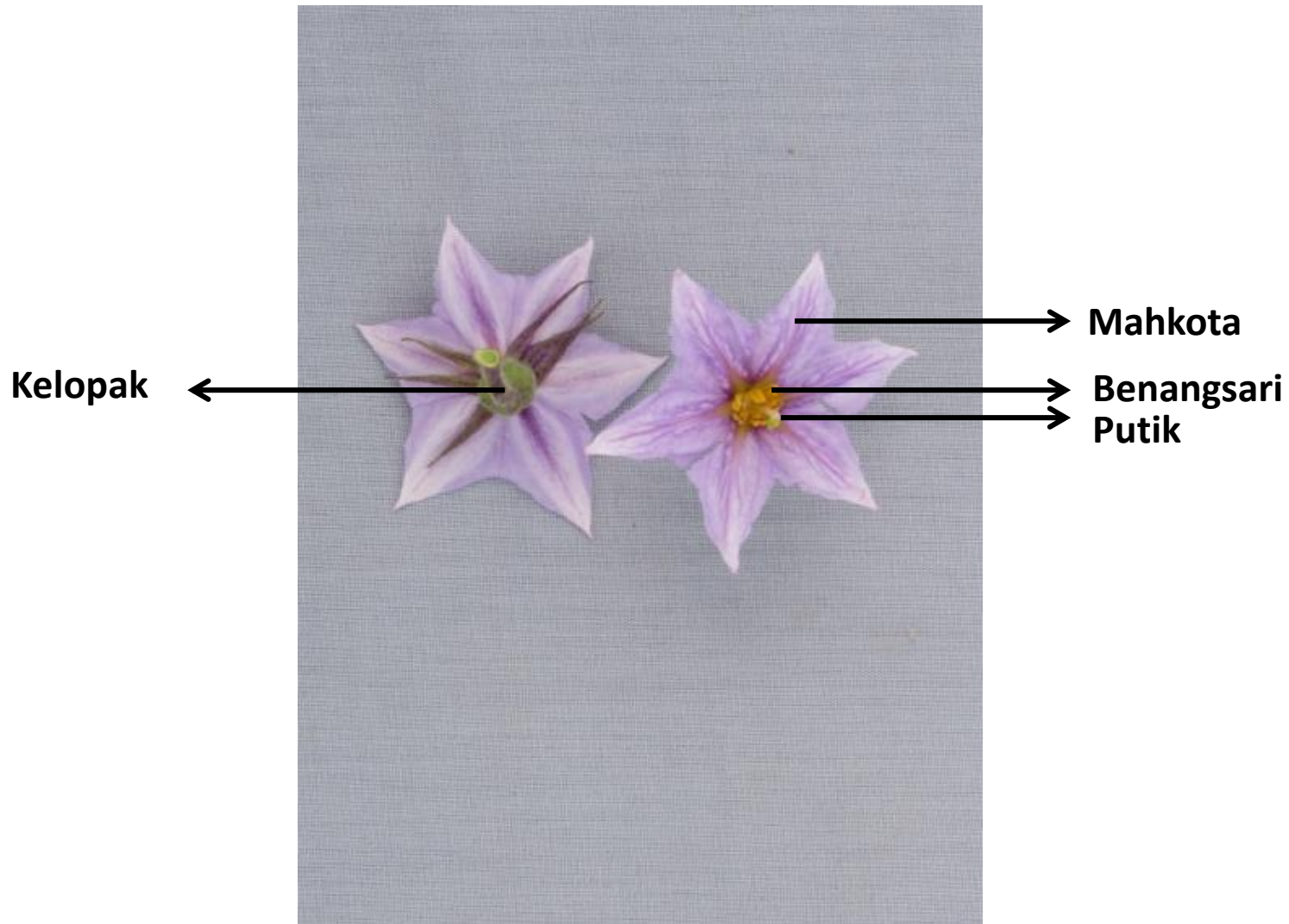


Panjang Daun

Lebar Daun

Panjang Tangkai Daun

Bunga Terong



Karakterisasi Terong

Fruit Data	
Days to Fruit (<i>umur mulai berbuah</i>)	No. of days from sowing till first fruit (DAT)
Fruit Type (<i>tipe buah</i>)	Fruit / Cherry / Beef / Others
No. of Fruits set per inflorescence (<i>jumlah buah per tandang</i>)	(Fruits)
Immature Fruit color (<i>warna buah mentah</i>)	
Mature Fruit Color (<i>warna buah matang</i>)	
Pedicle thickness (<i>tebal tangkai buah</i>)	(cm)
Spine on pedicle (<i>duri pada tangkai buah</i>)	Present / Absent
Pedicle length (<i>panjang tangkai buah</i>)	(cm)
Pedicle color (<i>warna tangkai buah</i>)	
Fruit position (<i>posisi buah</i>)	Erect / Hanging
Fruit Length (<i>panjang buah</i>)	(cm)
Fruit Diameter (<i>diameter buah</i>)	(cm)
Fruit Shape (<i>bentuk buah</i>)	Globular / Ovoid / Obovate / Pear-Shaped / Club-Shaped / Ellipsoid / Cylindrical
Fruit apex shape (<i>bentuk ujung buah</i>)	Indented / Flattened / Rounded / Pointed
Harvest Time (<i>umur panen</i>)	(DAT)
Firmness (<i>kekerasan buah</i>)	Firm / Medium / Less Firm
Flesh Flavour (<i>rasa daging buah</i>)	Sweet / Tasteless / Bitter / Others....
Flesh color (<i>warna daging buah</i>)	
Number of Locules (<i>jumlah ruang buah</i>)	
Seed Data	
Seed Shape (<i>bentuk biji</i>)	
Seed color (<i>warna biji</i>)	
Seed Size (<i>ukuran biji</i>)	
100 Seed Weight (<i>berat 100 biji</i>)	

Ad 19: Fruit: general shape



1
globular



2
ovoid



3
obovate



4
pear shaped



5
club shaped



6
ellipsoid



7
cylindrical

Ad 21: Fruit: apex



1
indented



2
flattened

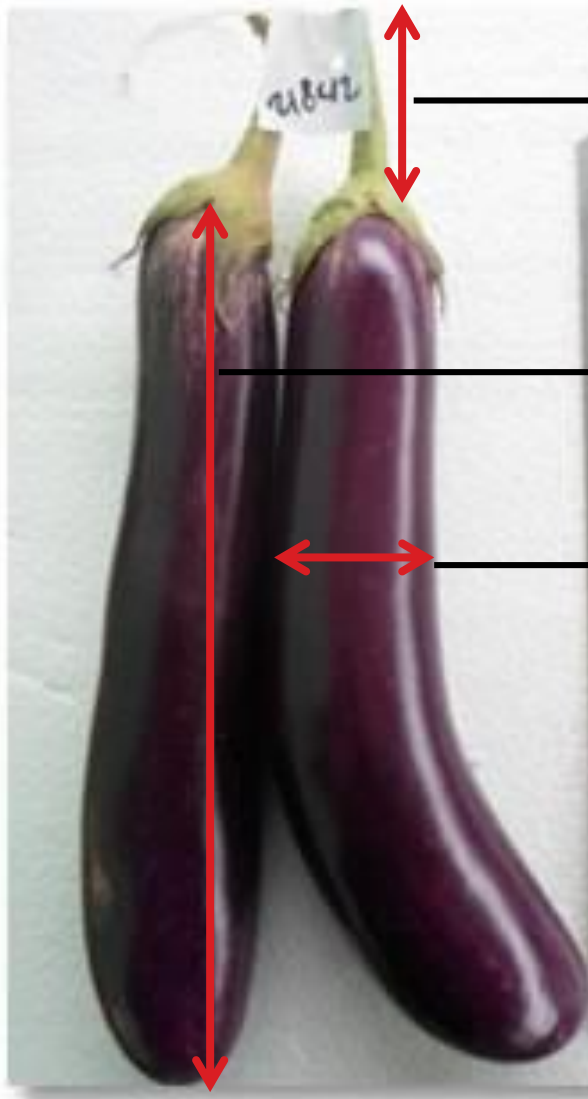


3
rounded



4
pointed

Buah Terong



Panjang Tangkai Buah

Panjang Buah

Diameter Buah

Warna Daging Buah



Benih Terong



→ **Warna Benih**

Karakterisasi Cabai Rawit



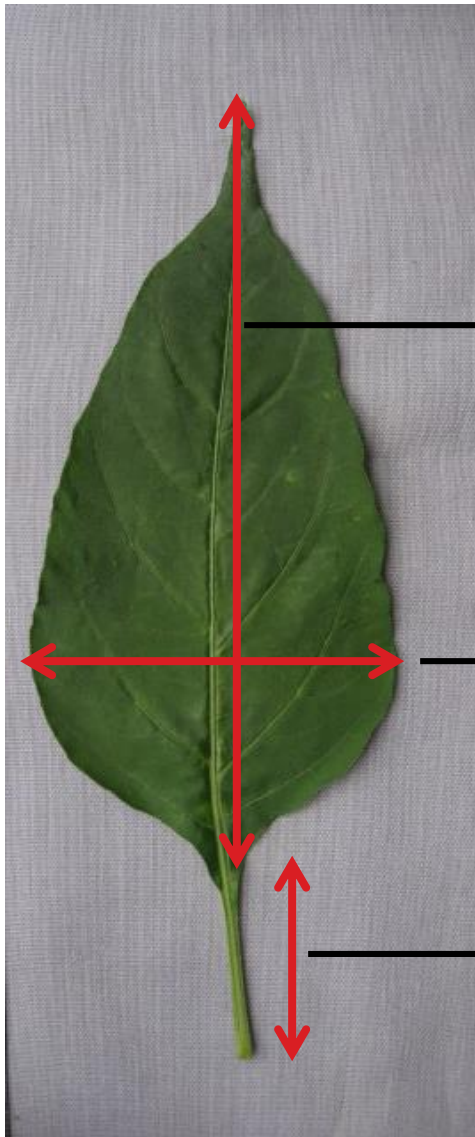
Descriptor Name	Value
Seedling Data (data bibit)	
Hypocotil color (warna hipokotil)	
Anthocyanin Level (level antocyan)	Weak / Medium / Strong
Cotyledon leaf color (warna kotiledon)	
Cotyledon leaf shape (bentuk kotiledon)	
Vegetative Data (data vegetatif)	
Plant Habit (erect, semi erect, drooping)	Erect / Semi Erect / Drooping
Stem color (warna batang)	
Stem diameter (10 cm from ground) (diameter batang)	(cm)
Height of first branch (tinggi cabang pertama)	(cm)
Leaf shape (bentuk daun)	Deltoid / Ovate / Lanceolate / Others.....
Leaf Margin (tepi daun)	Serrated / Medium Serrated / No Serrated
Leaf Color (warna daun)	
Leaf Length (panjang daun)	(cm)
Leaf Width (lebar daun)	(cm)
Petiole Length (panjang tangkai daun)	(cm)
Inflorescence Data (data bunga)	
Days to Flowering (umur mulai berbunga)	No. of days from sowing till first flower opening (DAT)
No. of pedicles per axil (jumlah bunga per sudut daun)	
Flower Shape (bentuk bunga)	Star / Rounded / Others....
Sepal Color (warna kelopak)	
Petal Color (warna mahkota)	
Stamen Color (warna benangsari)	
Pistil Color (warna putik)	
Stigma Position (posisi kepala putik)	Inside / Outside

Batang Cabai



→ Diameter Batang

Daun Cabai



Panjang Daun

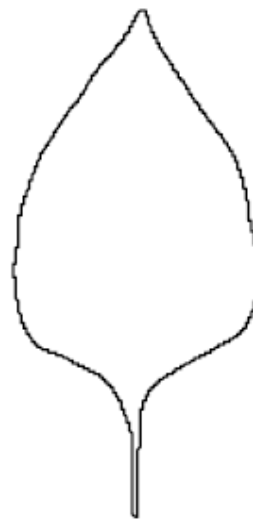
Lebar Daun

Panjang Tangkai Daun

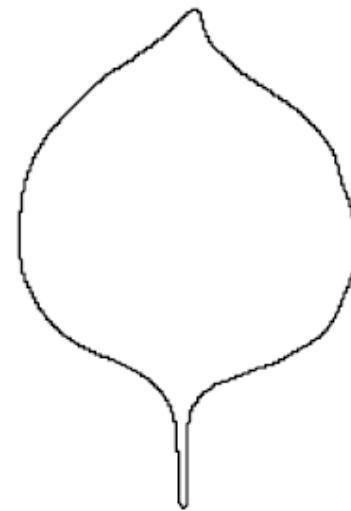
Ad. 14: Leaf: shape



1
lanceolate

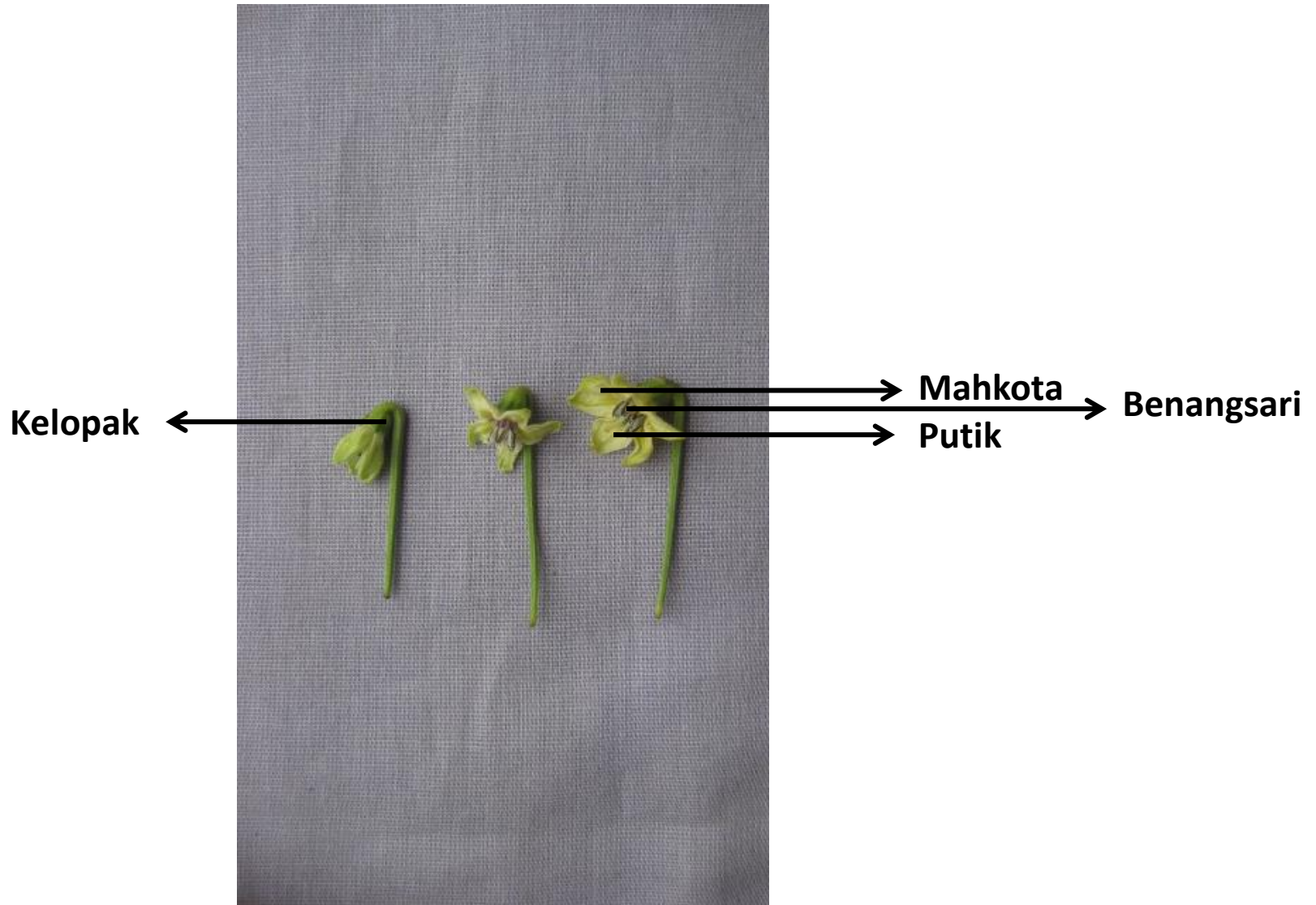


2
ovate



3
broad elliptic

Bunga Cabai

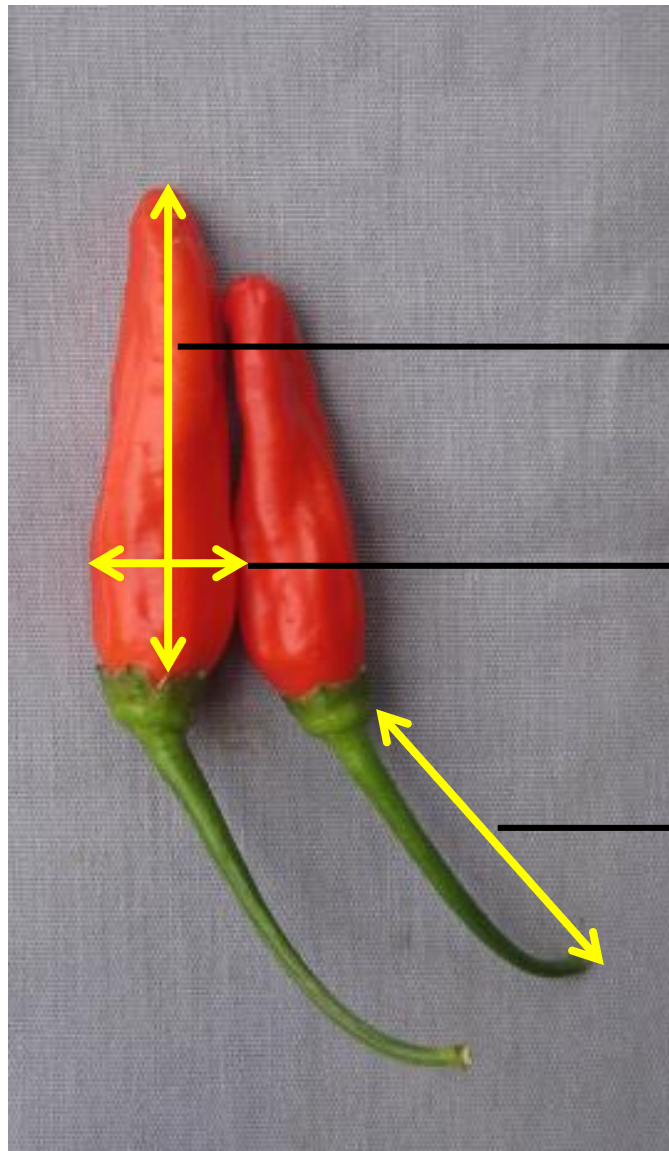


Karakterisasi Cabai Rawit



Fruit Data (data buah)	
Days to Fruit (umur mulai berbuah)	No. of days from sowing till first fruit (DAT)
No. of Fruits set per axil (jumlah buah per sudut daun)	(fruits)
Immature Fruit color (warna buah mentah)	
Mature Fruit Color (warna buah matang)	
Anthocyanin spot in unripe stage (antocyan pada buah mentah)	Present / Absent
Fruit position (posisi buah)	Erect / Drooping
Pedicle color (warna tangkai buah)	
Pedicle length (panjang tangkai buah)	(cm)
Fruit Length (panjang buah)	(cm)
Fruit Diameter (diameter buah)	(cm)
Fruit Shape (bentuk buah)	Oblate / Circular / Cordate / Square / Rectangular / Trapezoidal / Moderately Triangular / Narrowly Triangular / Hornshaped
Fruit tip/end shape (bentuk ujung buah)	Indented / Flattened / Rounded / Pointed
Fruit wall thickness (ketebalan daging buah)	
Fruit weight (bobot buah)	(gram)
Harvest Time (umur panen)	(DAT)
Fruit Firmness (kekerasan buah)	Firm / Medium / Less Firm
Fruit pungency (tingkat kepedasan)	Pungent / Medium Pungent / Less Pungent / No Pungent
Number of Locules (jumlah ruang dalam buah)	(locules)
Seed Data (data biji)	
Seed Shape (bentuk biji)	
Seed color (warna biji)	
Seed Size (ukuran biji)	
100 Seed Weight (berat 100 biji)	(gram)

Buah Cabai

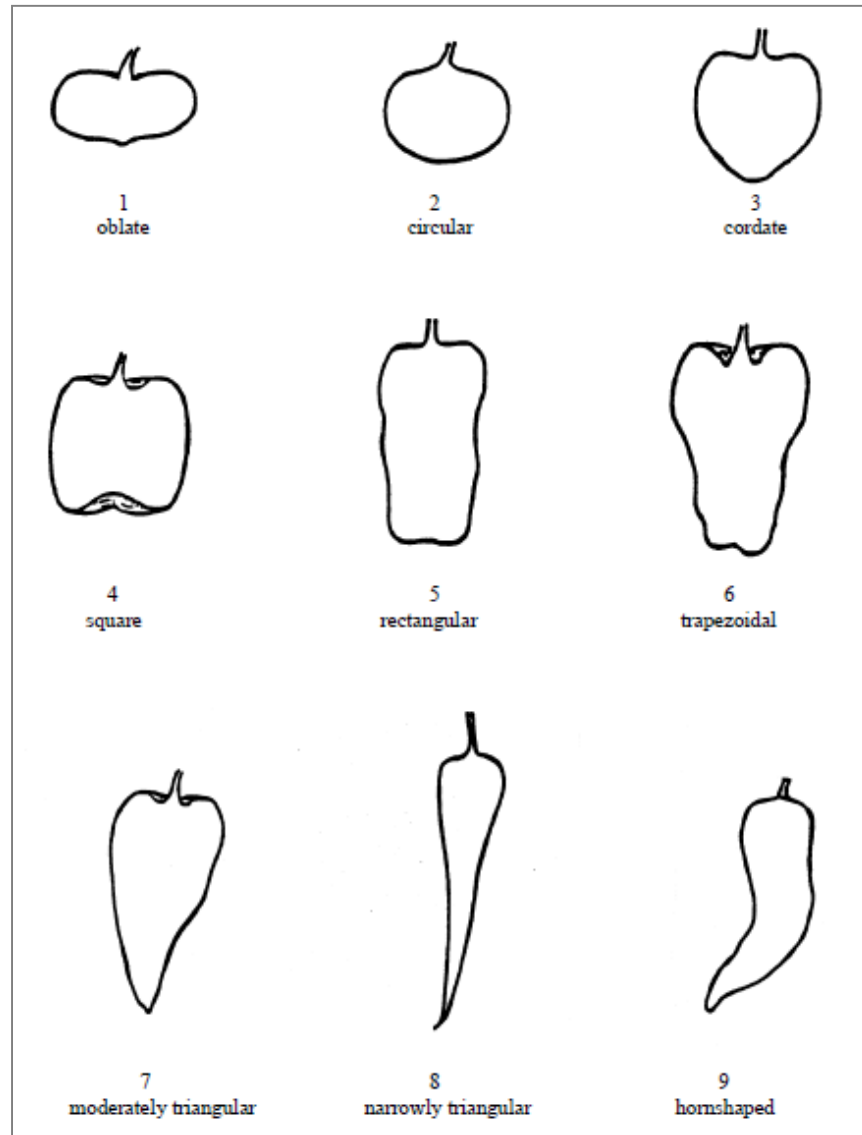


→ Panjang Buah

→ Diameter Buah

→ Panjang Tangkai Buah

Bentuk Buah Cabai



Benih Cabai

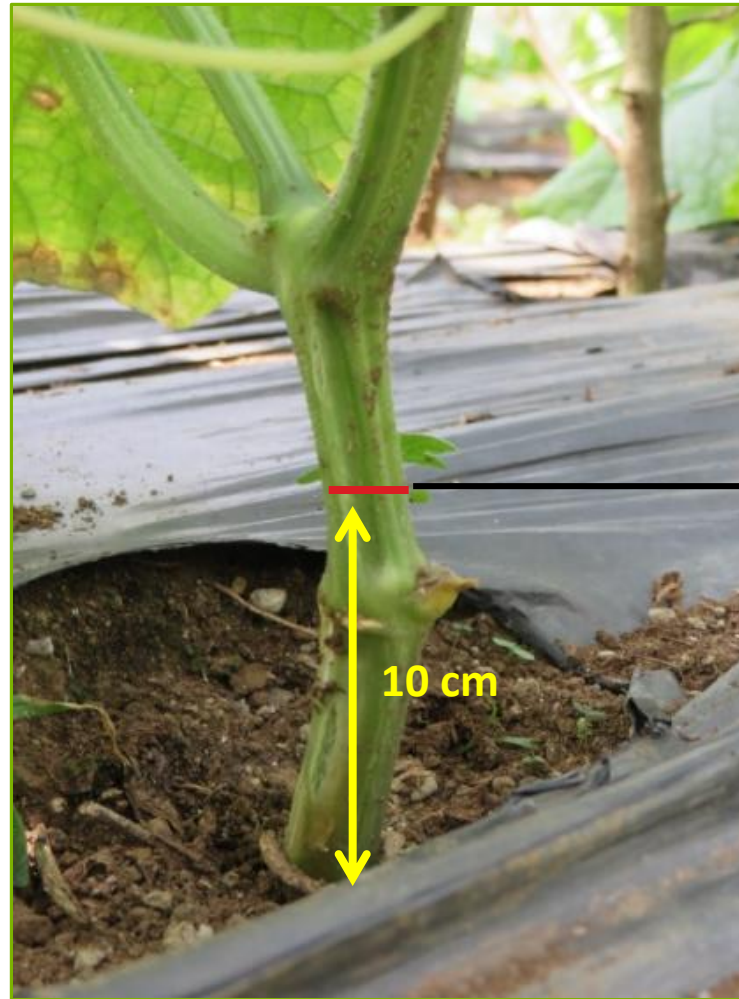


→ **Warna Benih**

Karakterisasi Mentimun

Descriptor Name	Value
Seedling Data (data bibit)	
Hypocotil color (warna hipokotil)	
Cotyledon leaf color (warna kotiledon)	
Cotyledon leaf shape (bentuk kotiledon)	
Vegetative Data (data vegetatif)	
Plant vigor (vigor tanaman)	Strong / Medium / Less Vigor
Stem color (warna batang)	
Stem diameter (10 cm from ground) (diameter batang)	(cm)
Tendrils (sulur)	
Climbing ability (kemampuan memanjat)	Good / Medium / Weak
Internode length (panjang buku)	(cm)
Leaf shape (bentuk daun)	Heart / Heart Pentagonal / Rounded / Others....
Leaf Margin (tepi daun)	Serrated / Medium Serrated / No Serrated
Leaf surface (permukaan daun)	Hairy / No Hairy
Leaf Color (warna daun)	
Leaf Length (panjang daun)	(cm)
Leaf Width (lebar daun)	(cm)
Petiole Length (panjang tangkai daun)	(cm)
Inflorescence Data (data bunga)	
Days to Flowering (umur mulai berbunga)	No. of days from sowing till first flower opening (DAT)
Flower type (tipe bunga)	Dioecious / Monoecious
Flower Shape (bentuk bunga)	Star / Rounded / Others....
Sepal Color (warna kelopak)	
Petal Color (warna mahkota)	
Stamen Color (warna benangsari)	
Pistil Color (warna putik)	
Ovary shape (bentuk bakal buah)	Rounded / Elliptical / Elongated / Others....
Ovary color (warna bakal buah)	

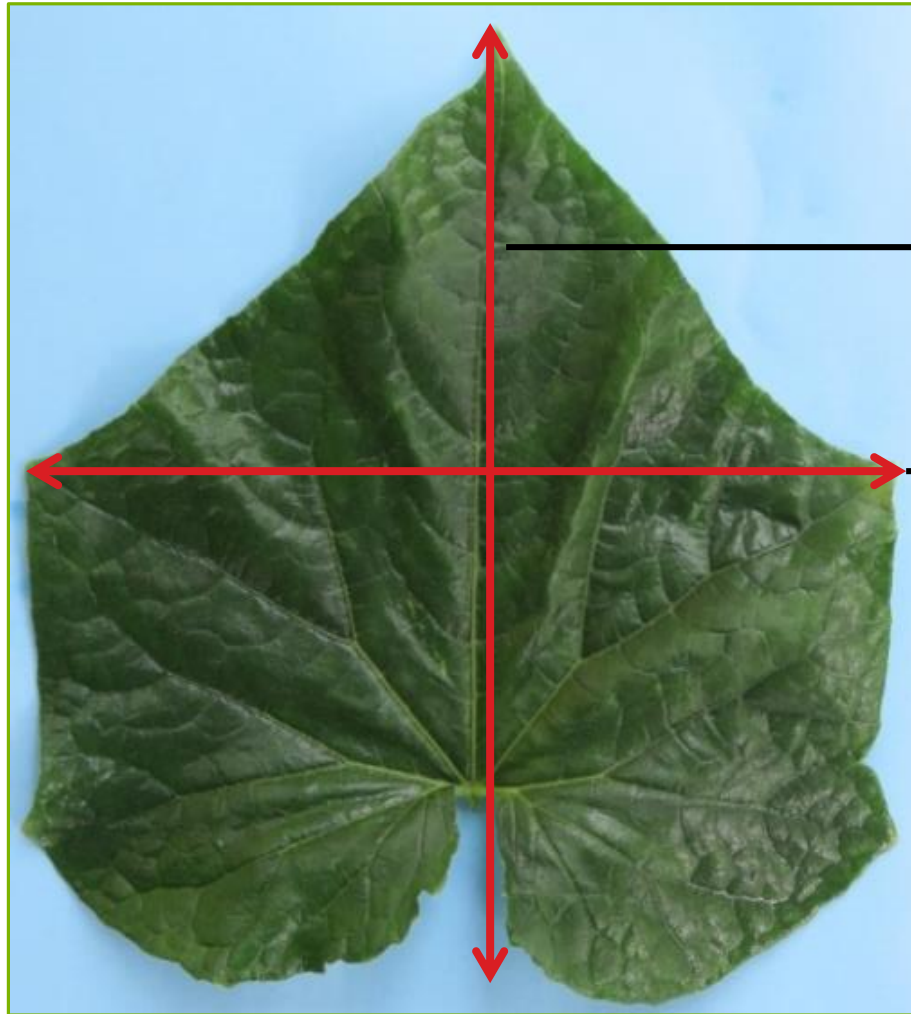
Batang Mentimun



Diameter Batang

10 cm

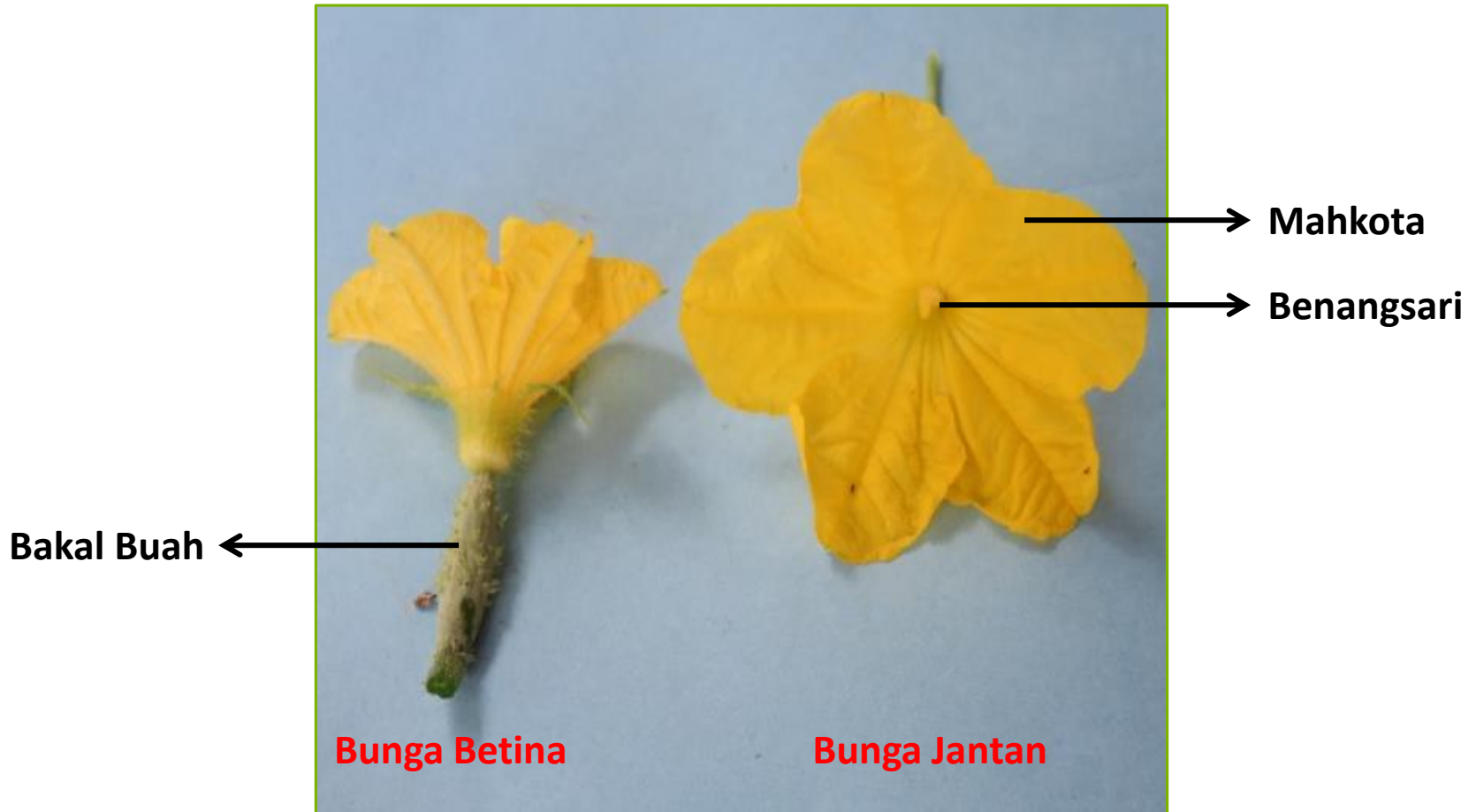
Daun Mentimun



Panjang Daun

Lebar Daun

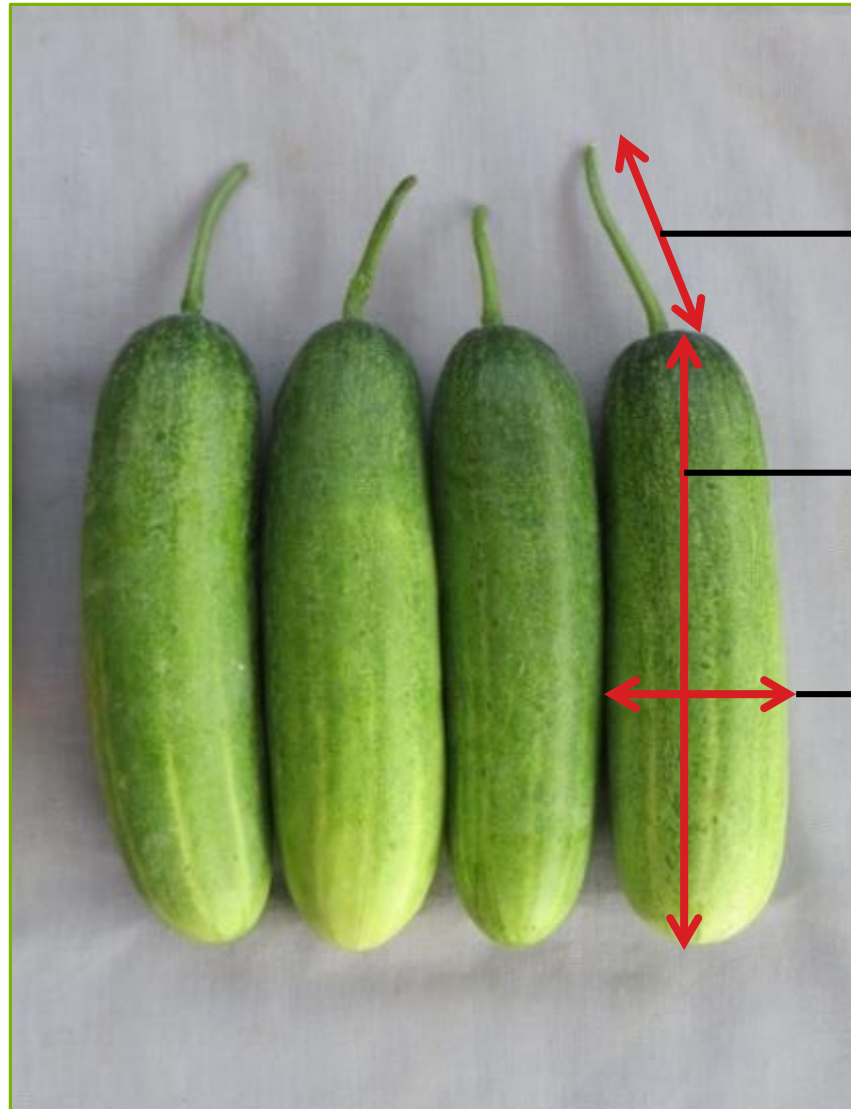
Bunga Mentimun



Karakterisasi Mentimun

Fruit Data (data buah)	
Days to Fruit (umur mulai berbuah)	No. of days from sowing till first fruit (DAT)
Fresh Fruit color (warna buah segar)	
Harvest Fruit Color (warna buah tua)	
Pedicle color (warna tangkai buah)	
Pedicle length (panjang tangkai buah)	(cm)
Fruit Length (panjang buah)	(cm)
Fruit Diameter (diameter buah)	(cm)
Fruit Shape (bentuk buah)	Round Elongated / Round to Angular Elongated / Angular Elongated
Fruit tip/end shape (bentuk ujung buah)	Acute / Obtuse / Rounded / Truncate
Fruit skin color (warna kulit buah)	
Fruit skin glossiness (kemengkilapan kulit buah)	Glossy / Medium / Dull
Fruit stripe color (warna garis buah)	Present / Absent
Fruit spines (duri buah)	Present / Absent
Fruit weight (bobot buah)	(gram)
Days to harvesting (umur panen)	(DAT)
Fruit Firmness (kekerasan buah)	Firm / Medium / Less Firm
Fruit flesh thickness (ketebalan daging buah)	
Fruit cavity (rongga buah)	Present / Absent
Flesh color (warna daging buah)	
Fruit bitterness (rasa pahit)	Bitter / Slightly Bitter / No Bitter
No. of locules (jumlah ruang/sekat buah)	(locules)
Fruit storability (daya simpan)	(DAH)
Seed Data (data biji)	
Seed Shape (bentuk biji)	
Seed color (warna biji)	
Seed Size (l x w) (ukuran biji)	
100 Seed Weight (berat 100 biji)	(gram)

Buah Mentimun



Panjang Tangkai Buah

Panjang Buah

Lebar Buah

Biji Mentimun



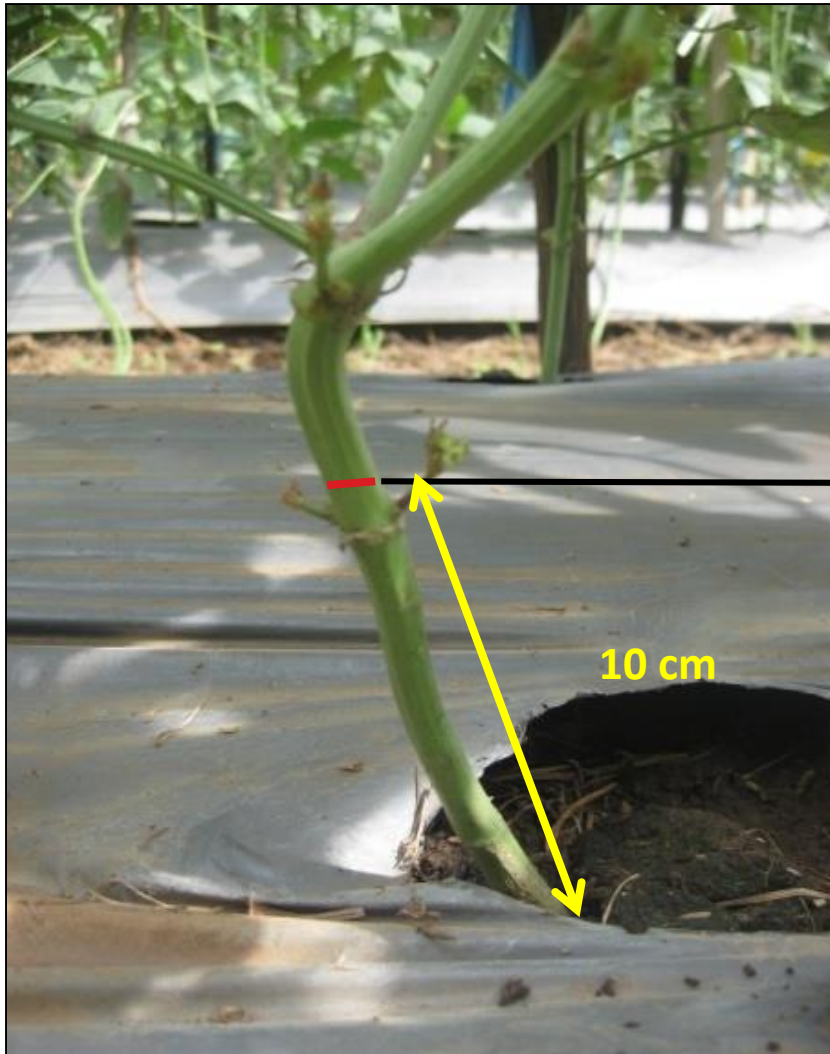
→ **Warna Benih**

Karakterisasi Kacang Panjang



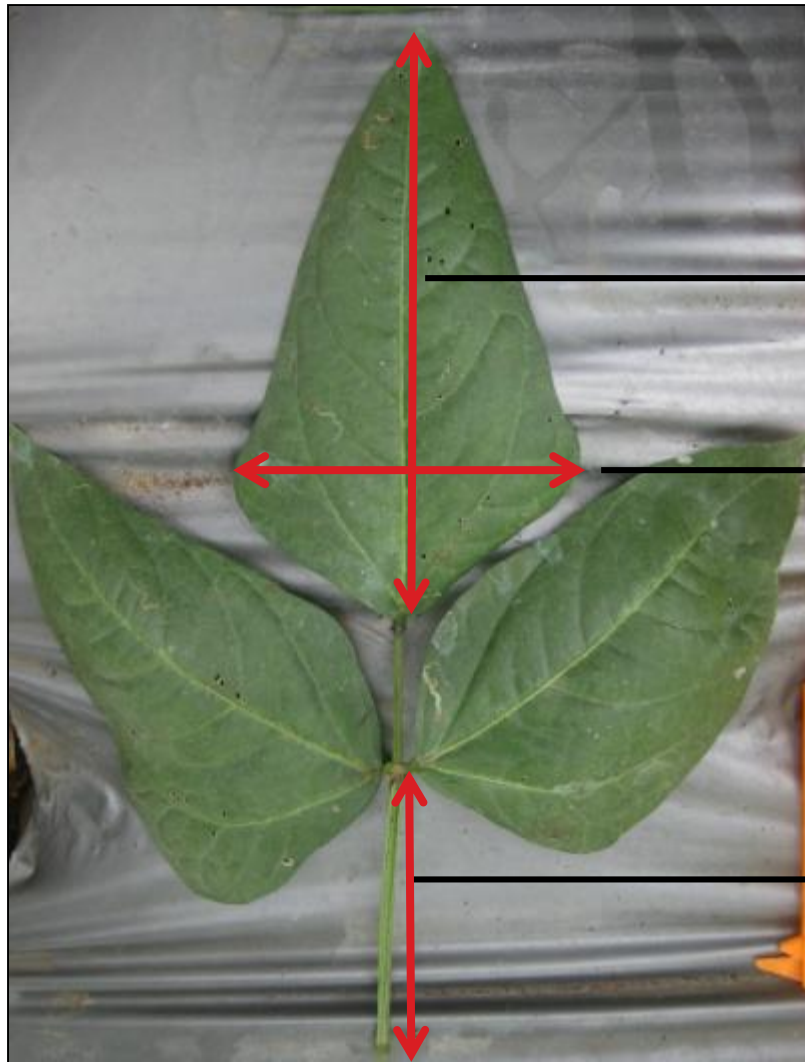
Descriptor Name	Value
Seedling Data	
Hypocotil color (warna hipokotil)	
Cotyledon leaf color (warna kotiledon)	
Cotyledon leaf shape (bentuk kotiledon)	
Vegetative Data	
Growth habit (climbing/dwarf) (kebiasaan tumbuh)	Climbing / Dwarf / Others....
Stem color (warna batang)	
Leaf shape (bentuk daun)	Round / Ovate / Ovate Lanceolate / Lanceolate / Lineate
Leaf Margin (tepi daun)	Seerated / Medium Serrated / No Serrated
Leaf surface (permukaan daun)	Hairy / No Hairy
Leaf Color (warna daun)	
Leaf Length (panjang daun)	(cm)
Leaf Width (lebar daun)	(cm)
Petiole Length (panjang tangkai daun)	(cm)
Inflorescence Data	
Days to Flowering (umur mulai berbunga)	No. of days from sowing till first flower opening (DAT)
Flower Shape (bentuk bunga)	Butterfly / Others....
Sepal Color (warna kelopak)	
Petal Color (warna mahkota)	
Stamen Color (warna benangsari)	
Pistil Color (warna putik)	

Batang Kacang Panjang



→ Diameter Batang

Daun Kacang Panjang



Panjang Daun

Lebar Daun

Panjang Tangkai Daun

Bunga Kacang Panjang



→ Kelopak

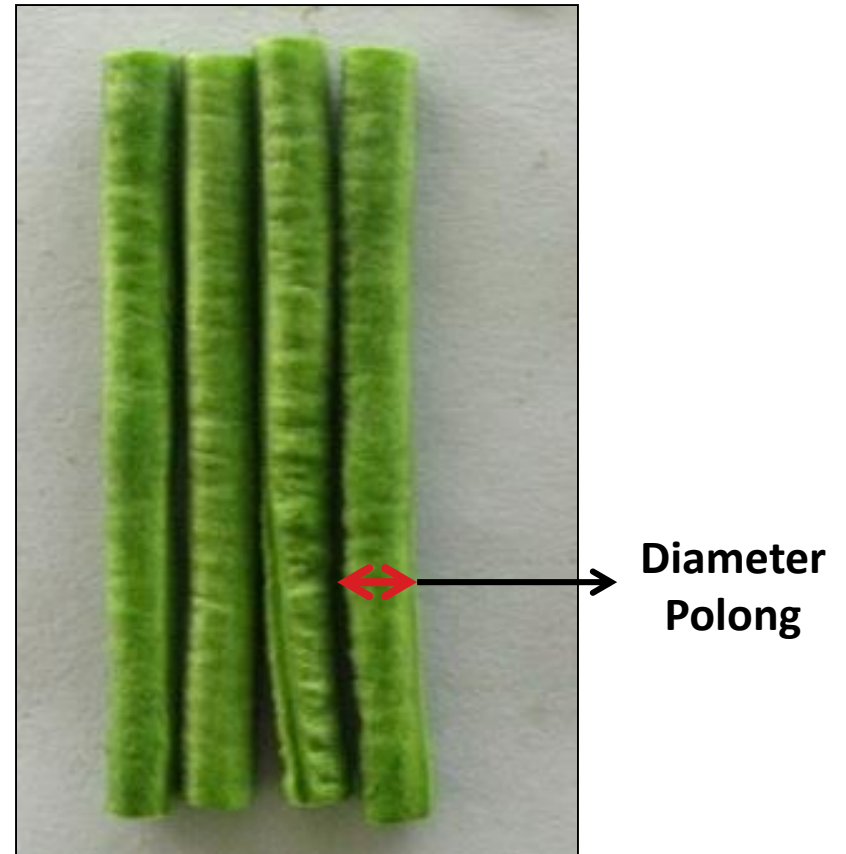
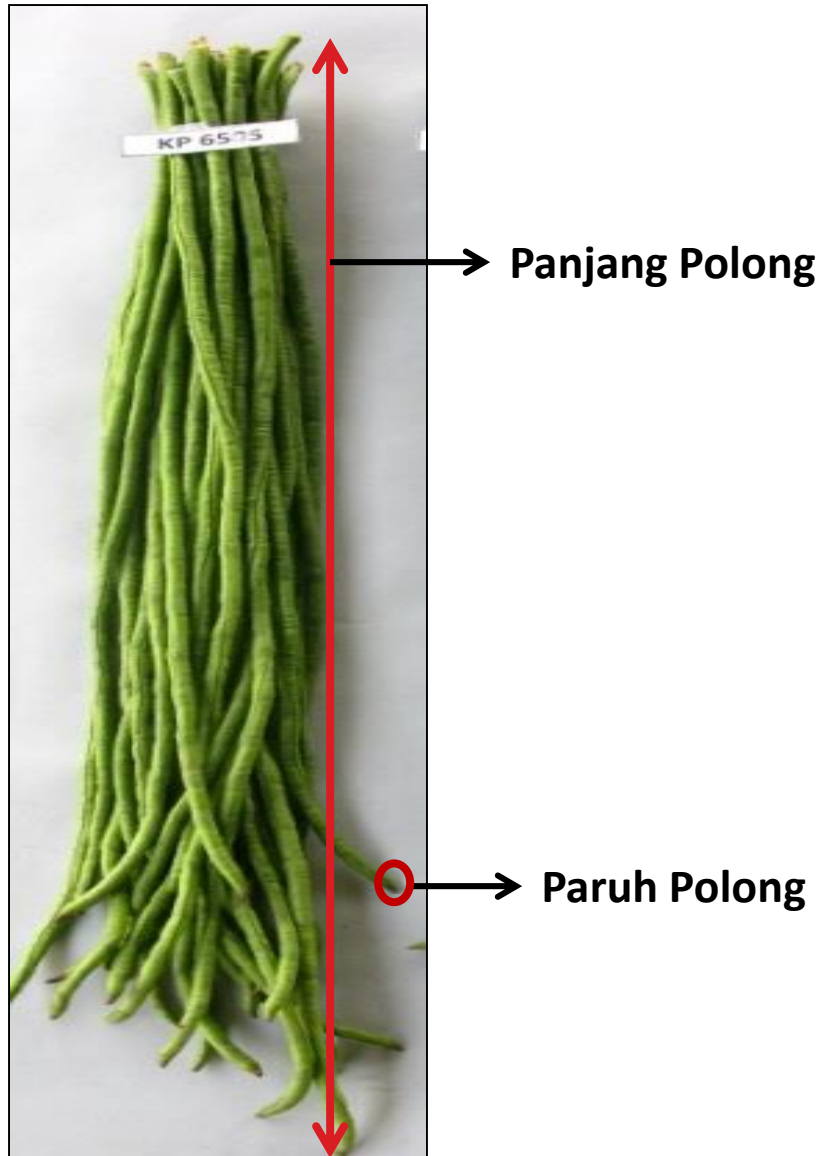
→ Mahkota

→ Putik

Karakterisasi Kacang Panjang

Fruit Data	
Immature/Fresh pod color (warna polong muda)	No. of days from sowing till first fruit (DAT)
Mature pod Color (warna polong tua)	
Pedicle color (warna tangkai polong)	
Pedicle length (panjang tangkai polong)	(cm)
Pod Length (panjang polong)	(cm)
Pod Diameter (diameter polong)	(cm)
Pod Shape (bentuk polong)	Round Elongated / Elliptical Elongated / Others....
Pod curvature (kelengkungan polong)	Curve / Slightly Curve / straight
Beak length (panjang paruh polong)	(cm)
Beak color (warna paruh polong)	
Pod glossiness (kemengkilapan polong)	Glossy / Medium / Dull
Pod weight (berat polong)	(gram)
Days to harvesting mature stage (umur panen biji)	(DAT)
No.of pod per pedicle (jumlah polong per tangkai)	(pods)
No. of seeds per pod (jumlah biji per polong)	(seeds)
Seed Data	
Seed Shape (bentuk biji)	
Seed color (warna biji)	
Seed Size (l x d) / ukuran biji (pxd)	
Seed hilum size (ukuran hilum)	Narrow / Medium / Broad
Seed hilum color (warna hilum)	
100 Seed Weight (berat 100 biji)	(gram)

Polong Kacang Panjang



Benih Kacang Panjang



→ Panjang Benih

→ Diameter Benih

- **UPOV** (*International Union for the Protection of New Varieties of Plants*)
http://www.upov.int/test_guidelines/en/list.jsp
- **IPGRI** (*International Plant Genetic Resources Institute*)
<https://www.bioversityinternational.org/e-library/publications/categories/descriptors/>
- **AVRDC** (*Asian Vegetable Research and Development Center*)
<http://seed.worldveg.org/download>



EAST-WEST SEED
CAP PANAH MERAH

Terima Kasih

we believe
in high quality vegetable seeds
for better living

