



AVRDC-GRSU CHARACTERIZATION RECORD SHEET

Crop: *Solanum* spp. (Eggplant)
 Plot No. : _____ Accession No. : _____
 Sowing Date: _____ Name: _____
 Transplanting Date: _____ Species: _____
 Location: _____ Origin: _____

SEEDLING DATA

S110 Germination period (no. of days from sowing until first germination) _____

S120 Cotyledonous leaf length (mm) (N=10) (子葉長) _____

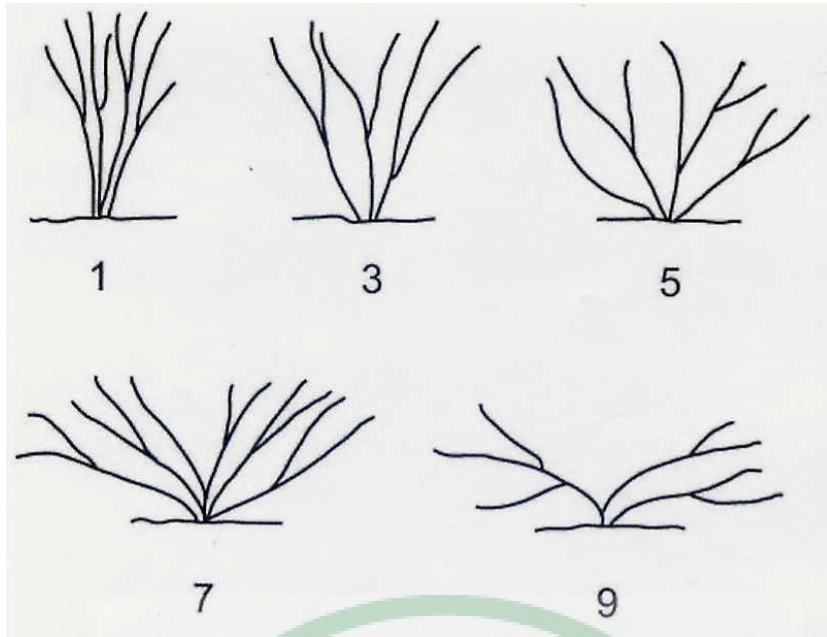
S130 Cotyledonous leaf width (mm) (N=10) (子葉寬) _____

S140 Cotyledonous leaf color (子葉色) _____
 3 = Green 5 = Light violet 7 = Violet X = Mixture

S150 Cotyledon length/ width ratio (子葉長寬比) _____
 1 = Very low (<2.0) 3 = Low (~2.2) 5 = Intermediate (~2.5)
 7 = High (~3.5) 9 = Very high (>5.0) X = Mixture

VEGETATIVE DATA

S210 Plant growth habit (生長習性) _____
 1 = Very upright 3 = Upright 5 = Intermediate
 7 = Prostrate X = Mixture



- S215** Stem ridging (莖脊) _____
 0 = Absent 3 = Shallow 5 = Intermediate
 7 = Prominent X = Mixture
- S216** Spines on stem (莖刺) _____
 0 = Absent 3 = Short 5 = Intermediate 7 = Long X = Mixture
- S217** Degree of stem pubescence (莖絨毛密度) _____
 0 = Absent 1 = Few 2 = Intermediate
 3 = Many 4 = Very many X = Mixture
- S220** Plant height (cm) (at flowering stage) (植株高度) _____
 1 = Very short (<20) 3 = Short (~30) 5 = Intermediate (~60)
 7 = Tall (~100) 9 = Very tall (>150) X = Mixture
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- S230** Plant breadth (cm) (at flowering stage) (植株寬度) _____
 1 = Very narrow (<30) 3 = Narrow (~40) 5 = Intermediate
 7 = Broad (~90) 9 = Very strong (>130) X = Mixture
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- S240** Plant branching (no. of primary branches per plant) (分枝性) _____
 1 = Very weak (~2) 3 = Weak (~5) 5 = Intermediate (~10)
 7 = Strong (~20) 9 = Very strong (>30) X = Mixture
 M = Uncountable
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- S250** Petiole color (葉柄色) _____
 1 = Green 2 = Greenish violet 3 = Violet
 7 = Dark violet 9 = Dark brown X = Mixture

S260 Petiole length (mm) (葉柄長度) _____

0 = None 1 = Very short (<5) 3 = Short (~10)
 5 = Intermediate (~30) 7 = Long (~50) 9 = Very long (>100)
 X = Mixture

S270 Leaf blade length (cm) (葉片長度) _____

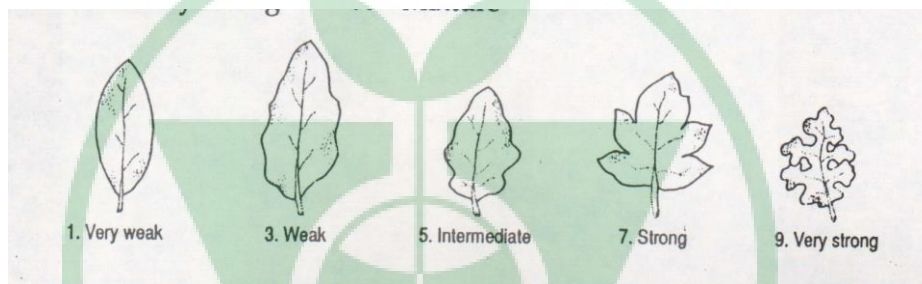
3 = Short (~10) 5 = Intermediate (~20) 7 = Long (~30) X = Mixture

S280 Leaf blade width (cm) (maximum width) (葉片寬度) _____

3 = Narrow (~5) 5 = Intermediate (~10) 7 = Wide (~15) X = Mixture

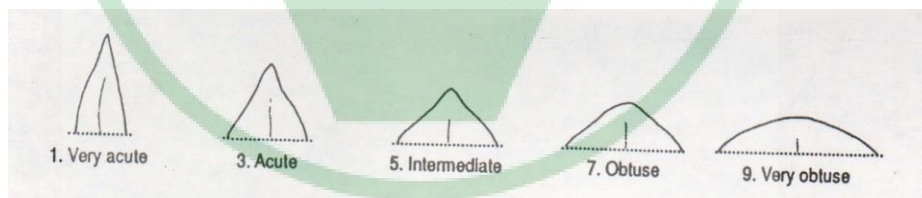
S290 Leaf blade lobes (葉裂情形) _____

1 = Very weak 3 = Weak 5 = Intermediate
 7 = Strong 9 = Very strong X = Mixture



S300 Leaf blade tip angle (葉梢角度) _____

1 = Very acute (<15°) 3 = Acute (~45°) 5 = Intermediate (~75°)
 7 = Obtuse (~110°) 9 = Very obtuse (>160°) X = Mixture



S310 Leaf blade color (upper surface) (葉片色) _____

1 = Light green 3 = Green 5 = Dark green
 7 = Greenish violet 9 = Violet X = Mixture

S320 Leaf prickles (no. of leaf prickles on upper surface of the leaf) (葉刺量) _____

0 = None 1 = Very few (1-2) 3 = Few (3-5)
 5 = Intermediate (6-10) 7 = Many (11-20) 9 = Very many (>20)
 X = Mixture

S330 Leaf hairs (no. of hair per mm² on lower surface of the leaf) (葉毛量) _____

1 = Very few (<20) 3 = Few (20-50) 5 = Intermediate (50-100)
 7 = Many (100-200) 9 = Very many (>200) X = Mixture

INFLORESCENCE DATA

- S410** Number of flowers per inflorescence (每花序之花朵數) _____

- S420** Flowering time (no. of days from sowing until first flower opening) (開花日數) _____
- S421** Stamen length (cm) (N=5) (雄蕊長) _____

- S422** Petal length (cm) (N=5) (花瓣長) _____

- S423** Sepal length (cm) (N=5) (萼片長) _____

- S430** Number of hermaphrodite flowers per inflorescence (每花序上之兩性花數) _____
 1 = Only one hermaphrodite flower on each inflorescence
 2 = Only two hermaphrodite flower on each inflorescence
 3 = Only three hermaphrodite flower on each inflorescence
 4 = Four or more hermaphrodite flower on each inflorescence,
 but some flowers functionally male
 5 = Four or more hermaphrodite flower on each inflorescence,
 no functionally male flowers
 X = Mixture
- S440** Corolla color (花冠色) _____
 0 = Yellow 1 = Greenish white 3 = White
 5 = Pale violet 7 = Light violet 9 = Bluish violet
 X = Mixture
- S450** Relative style length (mm) (相對花柱長度) _____
 3 = Short (~1) 5 = Intermediate (~3) 7 = Long (~5) X = Mixture
- S460** Pollen production (花粉量) _____
 0 = None 3 = Low 5 = Medium 7 = High X = Mixture
- S470** Style Exsertion (花柱) _____
 3 = Inserted 5 = Intermediate 7 = Exerted X = Mixture

FRUIT DATA

First harvest date _____

Last harvest date _____

Fruiting date (date when 50% of plants have mature fruits) _____ (結果日期)

S510 Fruit length (cm) (from base of calyx to tip of fruit) (果長) _____

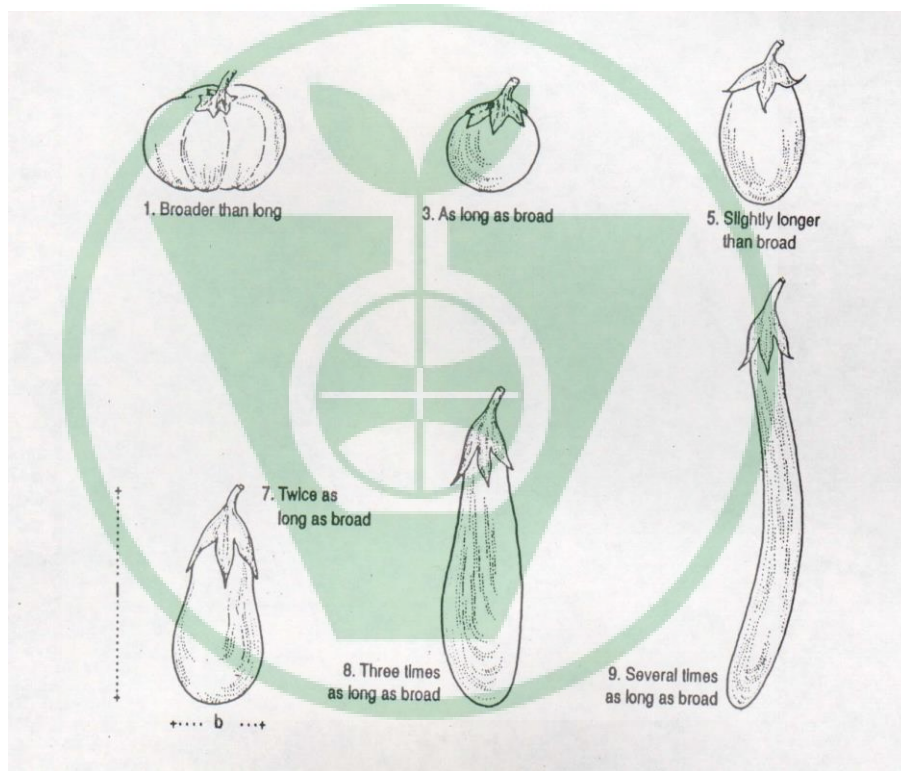
1 = Very short (<1) 3 = Short (~2) 5 = Intermediate (~5)
 7 = Long (~10) 9 = Very long (>20) X = Mixture

S520 Fruit breadth (cm) (diameter at broadest part) (果寬) _____

1 = Very small (<1) 3 = Small (~2) 5 = Intermediate (~3)
 7 = Large (~5) 9 = Very large (>10) X = Mixture

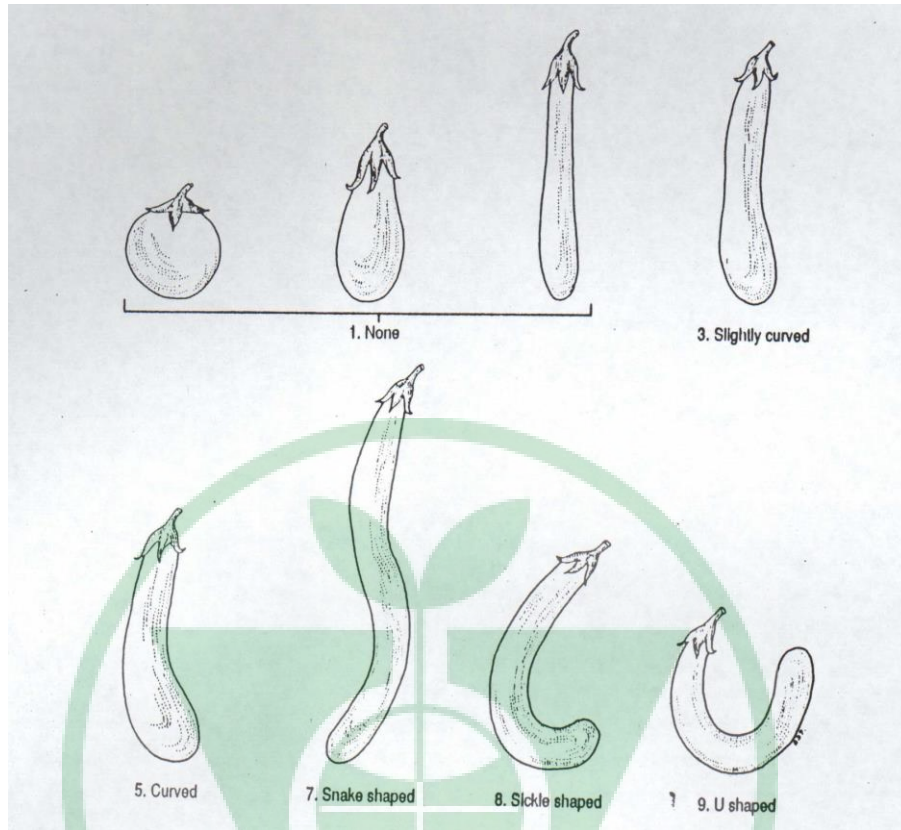
S530 Fruit length/breadth ratio (果實長寬比) _____

1 = Broader than long 3 = As long as broad
 5 = Slightly longer than broad 7 = Twice as long as broad
 8 = Three times as long as broad 9 = Several times as long as broad
 X = Mixture



S540 Fruit curvature (果實彎曲情形)

1 = None 3 = Slightly curved 5 = Curved
 7 = Snake shaped 8 = Sickle shaped 9 = U shaped
 X = Mixture



S550 Fruit pedicel length (mm) (果梗長)

1 = Very short (<5) 3 = Short (~10) 5 = Intermediate (~25)
 7 = Long (~50) 9 = Very long (~75) X = Mixture

S560 Fruit pedicel thickness (mm) (果梗厚度)

1 = Very thin (<1) 3 = Thin (~2) 5 = Intermediate (~3)
 7 = Thick (~5) 9 = Very thick (>10) X = Mixture

S570 Fruit pedicel prickles (果梗刺)

0 = None 1 = Very few (<3) 3 = Few (~5)
 5 = Intermediate (~10) 7 = Many (~20) 9 = Very many (>30)
 X = Mixture

S580 Fruit shape (果形)

3 = About 1/4 way from base to tip
 5 = About 1/2 way from base to tip
 7 = About 3/4 way from base to tip
 X = Mixture

S590 Fruit apex shape (果頂形狀)

3 = Protruded 5 = Rounded 7 = Depressed X = Mixture

- S600** Fruit color at commercial ripeness _____
 1 = Green 2 = Milk white 3 = Deep yellow
 4 = Fire red 5 = Scarlet red 6 = Lilac gray
 7 = Purple 8 = Purple black 9 = Black
 X = Mixture
- S610** Fruit color distribution at commercial ripeness _____
 1 = Uniform 3 = Mottled 5 = Netted
 7 = Striped X = Mixture
- S620** Fruit color at physiological ripeness _____
 1 = Green 2 = Deep yellow 3 = Yellow orange
 4 = Deep orange 5 = Fired red 6 = Poppy red
 7 = Scarlet red 8 = Light brown 9 = Black
 X = Mixture
- S630** Fruit position (果位) _____
 1 = Erect 3 = Semi-erect 5 = Horizontal
 7 = Semi-pendant 9 = Pendant X = Mixture
- S640** Relative fruit calyx length (mm) (N=10) (果萼長) _____

- S650** Fruit calyx prickles (N=10) (果萼刺) _____
 0 = None 1 = Very few (<3) 3 = Few (~5)
 5 = Intermediate (~10) 7 = Many (~20) 9 = Very many (>30)
 X = Mixture

- S660** Fruit cross section (果實橫切面) _____
 1 = Circular, no grooves 3 = Elliptic, no grooves
 5 = Few grooves (~4) 7 = Many grooves (~8)
 9 = Very irregular X = Mixture
- S680** Number of locules per fruit (N=10) (心室數) _____

- S690** Fruit flesh density (果肉密度) _____
 1 = Very loose (spongy) 3 = Loose (crumbly) 5 = Average density
 7 = Dense 9 = Very dense X = Mixture
- S700** Number of fruit per infructescence (每果序果實量) _____

- S710** Number of fruit per plant (每株果數) _____

 (999 = Uncountable)

S720 Fruit yield per plant (gm) (每株產量) _____
1 = Very low (<250) 3 = Low (~500) 5 = Intermediate (~1000)
7 = High (~2500) 9 = Very high (>5000) X = Mixture

S730 Fruit flavor (果實風味) _____
3 = Bitter 5 = Intermediate 7 = Sweet X = Mixture

S760 Varietal mixture condition _____
0 = Pure 3 = Slight mixture 5 = Medium mixture 7 = Serious mixture

S770 Flesh browning (after cutting) (果肉褐化) _____
1 = Immediate browning 0 ~ 1 minute 2 = > 1 ~ 3 minute
3 = > 3 ~ 5 minute 4 = > 5 ~ 7 minute
5 = > 7 ~ 9 minute 6 = > 9 ~ 12 minute
7 = > 12 ~ 15 minute 8 = > 15 ~ 20 minute
9 = > 20 ~ 30 minute 10 = > 30 min.

S900 Harvest procedure _____
1 = Bulk 2 = 2 sub- accessions 3 = 3 sub- accessions

SEED DATA

S810 Seed color (種子色) _____
1 = White 2 = Light yellow 3 = Grey yellow
4 = Brownish yellow 5 = Brown 6 = Brown black
9 = Black X = Mixture

S820 Number of seeds per fruit (種子量) _____
0 = None 1 = Very few (<10) 3 = Few (~50)
5 = Intermediate (~100) 7 = Many (~300) 9 = Very many (>500)
X = Mixture

S825 Seed density (種子密度) _____
3 = Scarce 5 = Intermediate 7 = Dense X = Mixture

S830 Seed size (mm) (種子大小) _____
3 = Small (~2) 5 = Intermediate (~3) 7 = Large (~4) X = Mixture

S840 100 seeds weight (gm) (百粒重) _____