



### WORLDVEG-GRSU CHARACTERIZATION RECORD SHEET

Crop: *Vigna radiata* (Mungbean), *Vigna mungo* (Black gram) & *Vigna umbellata* (Rice bean)

Plot No. : \_\_\_\_\_ VI No. : \_\_\_\_\_

Sowing Date: \_\_\_\_\_ Name: \_\_\_\_\_

Transplanting Date: \_\_\_\_\_ Species: \_\_\_\_\_

Location: \_\_\_\_\_ Origin: \_\_\_\_\_

#### SEEDLING DATA

V030 Hypocotyl color \_\_\_\_\_  
 1 = Green      2 = Greenish purple      3 = Purple  
 4 = Mixed      5 = Other (specify) \_\_\_\_\_

V040 Primary leaf length (cm) (N=10) \_\_\_\_\_  
 \_\_\_\_\_

V050 Primary leaf width (cm) (N=10) \_\_\_\_\_  
 \_\_\_\_\_

V060 Primary leaf shape \_\_\_\_\_  
 1 = L/W less than 1      2 = L/W between 1 and 1.9  
 3 = L/W between 2 and 2.9      4 = L/W 3 and more

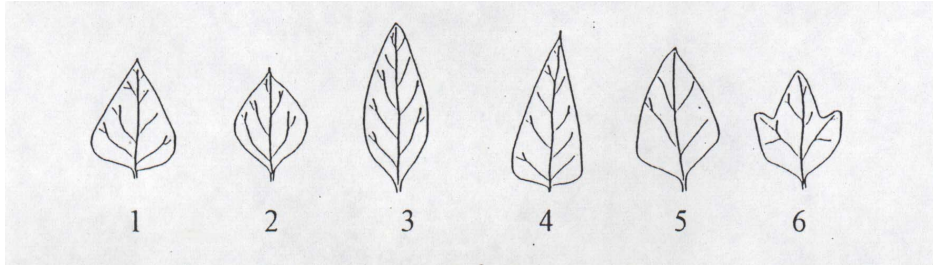
#### VEGETATIVE DATA

V100 Growth habit \_\_\_\_\_  
 1 = Erect    2 = Semi- erect    3 = Spreading

V110 Lodging \_\_\_\_\_  
 1 = None    2 = A little    3 = Intermediate    4 = A lot    5 = Heavy

V220 Terminal leaflet size \_\_\_\_\_  
 3 = Small    5 = Medium    7 = Large    9 = Huge

**V240** Terminal leaflet shape \_\_\_\_\_  
 1 = Deltoid                      2 = Ovate                      3 = Acute  
 4 = Ovate-lanceolate          5 = Cuneate                    6 = Lobed  
 7 = Other (specify) \_\_\_\_\_ X = Mixture



**V300** Leaf pubescence density \_\_\_\_\_  
 0 = None    1 = Few    2 = Moderate    3 = Many

**V310** Leaf pubescence length \_\_\_\_\_  
 0 = None    1 = Short    2 = Medium    3 = Long

**V210** Leaf color (record at 50% flowering) \_\_\_\_\_  
 3 = Light green    5 = Green    7 = Dark green

**V230** Petiole color \_\_\_\_\_  
 1 = Green    2 = Green with purple spot    3 = Greenish purple    4 = Purple

**V270** Color of basal petioles \_\_\_\_\_  
 1 = Green    2 = Green/Purple    3 = Greenish purple    4 = Dark purple

**V400** Days to 50% flowering \_\_\_\_\_  
 (no. of days from planting to 50% of plants with at least one open flower)

**V120** Plant height at 50% flowering (cm) (N=5) \_\_\_\_\_  
 \_\_\_\_\_

**V130** Plant height at maturation (cm) (N=5) \_\_\_\_\_  
 \_\_\_\_\_

**V420** Number of clusters (N=10) \_\_\_\_\_  
 \_\_\_\_\_

**V500** Pods per plant (N=10) \_\_\_\_\_  
 \_\_\_\_\_

**V620** Days to 50% maturity \_\_\_\_\_

**INFLORESCENCE DATA**

**V410** Raceme position (record when the first pod changes color) \_\_\_\_\_  
1 = Mostly above canopy  
2 = Intermediate  
3 = No pods visible above canopy

**V450** Calyx color \_\_\_\_\_  
1 = Green 2 = Greenish purple 3 = Purple

**V430** Standard petal color \_\_\_\_\_  
GG = Green G = Greenish yellow Y = Yellow  
GP = Purplish green YP = Purplish yellow

**V480** Standard petal color density \_\_\_\_\_  
0 = Very light 1 = Light 2 = Intermediate 3 = Dark

**V440** Wings petal color \_\_\_\_\_  
Y = Yellow G = Greenish yellow

**V490** Wings petal color density \_\_\_\_\_  
0 = Very light 1 = Light 2 = Intermediate 3 = Dark

**POD DATA**

**V530** Pod color at mature stage \_\_\_\_\_  
1 = Pale yellow 2 = Yellow 3 = Brown 4 = Dark brown 5 = Black  
6 = Green X = Mixture

**V550** Pod pubescence number \_\_\_\_\_  
0 = None 1 = Few 2 = Intermediate 3 = Many X = Mixture

**V560** Pod pubescence color \_\_\_\_\_  
1 = White 2 = Light brown 3 = Brown X = Mixture

**V570** Pod pubescence length \_\_\_\_\_  
1 = Short 2 = Intermediate 3 = Long X = Mixture

**V510** Pod length (cm) (N=10) \_\_\_\_\_  
\_\_\_\_\_

**V700** Seeds per pods (N=5) \_\_\_\_\_  
\_\_\_\_\_

**SEED DATA**

**V710** Seed coat color \_\_\_\_\_  
G = Green            GM = Green mottled  
Y = Yellow            YM = Yellow mottled  
BR = Brown            BRM = Brown mottled  
BL = Black            BLM = Black mottled  
R = Red                X = Mixture

**V730** Lustre on seed surface \_\_\_\_\_  
A = Shiny    B = Dull    X = Both    M = Mixed

**V760** Seed hilum color \_\_\_\_\_  
B = Black    W = White    BR = Brown    X = Mixture

**V770** Thousand seed weight (gm) (seed weight of 1000 seeds at 9% moisture content) \_\_\_\_\_

**V780** Protein content \_\_\_\_\_

**V790** Starch content \_\_\_\_\_

**V800** Fiber content \_\_\_\_\_

