AVRDC
The World Vegetable Center
Genetic Resources and Seed Unit (GRSU)

# AVRDC-GRSU CHARACTERIZATION RECORD SHEET

| | | | |
|---|---|---|---|
| Crop: | ***Glycine* spp. (Soybean)** | | |
| Plot No. : | _____ | Accession No. : | _____ |
| Sowing Date: | _____ | Name: | _____ |
| Transplanting Date: | _____ | Species: | _____ |
| Location: | _____ | Origin: | _____ |

## SEEDLING DATA

**G081** Hypocotyl color _____
(recorded at the time when the primary leaves are expanded)
1 = Green 2 = Purple 999 = Mixture

## VEGETATIVE DATA

**G021** Stem determination _____
3 = determinate 5 = Semi-determinate 7 = Indeterminate

**G031** Number of leaflets _____
1 = 3 5 = 4-6 7 = 7 or more

**G091** Leaflet size _____
(recorded with length (cm) x width (cm))
3 = Small (70 $cm^2$ or less)
5 = Medium (71 to 149 $cm^2$)
7 = Large (150 $cm^2$ and more)

**G041** Leaflet shape _____
3 = Narrow (1/w 2.2 or more) = 'lanceolate'
5 = Intermediate (1/w 1.9.2.1)
7 = Broad (1/W 1.8 or less) = 'ovate'

**G051** Pubescence density _____
0 = Absent 3 = Sparse 5 = Semi- sparse 7 = Normal 9 = Dense
999 = Mixture

**G061** Pubescence color _____
1 = Grey 2 = Light brown 3 = Brown = 'tawny'

**G071** Pubescence type _____

1 = Erect 2 = Semi-appressed 3 = Appressed
4 = Curly 5 = Retrorse tip

**G111** Plant height at R1 (R1: 開花期之植株高度) _____
(actual measurement in cm as mean of 20 randomly selected plants)

_____ _____ _____ _____ _____ _____ _____ _____ _____ _____
_____ _____ _____ _____ _____ _____ _____ _____ _____ _____

**G141** Plant height at R8 (R8: 果莢成熟期之植株高度) _____
(actual measurement in cm as mean of 20 randomly selected plants)

_____ _____ _____ _____ _____ _____ _____ _____ _____ _____
_____ _____ _____ _____ _____ _____ _____ _____ _____ _____

**G151** Number of primary branches (when at least 2 nodes) per plant at maturity _____
(mean of 20 randomly selected plants)

_____ _____ _____ _____ _____ _____ _____ _____ _____ _____
_____ _____ _____ _____ _____ _____ _____ _____ _____ _____

**G161** Lodging score _____
Scored from leaning angle and lodging area (see table 1)

0 = None 3 = Slight 5 = Moderate 7 = Severe 9 = Very severe

Table 1. Leaning angle and lodging area.

| Lodging area | 0-9° | 10-19° | 20-29° | 40-49° | 60° |
|---|---|---|---|---|---|
| 0-19% | 1 | 1 | 1 | 1 | 1 |
| 20-39% | 1 | 1 | 3 | 3 | 5 |
| 40-59% | 1 | 3 | 3 | 5 | 7 |
| 60-79% | 1 | 3 | 5 | 7 | 9 |
| 80% | 3 | 3 | 5 | 7 | 9 |

## INFLORESCENCE DATA

**G221** Days to flowering (R1) _____
(number of days from planting to 50% of plants with at least one open flower)

**G201** Corolla color _____
3 = White 5 = Purple throat 7 = Purple 999 = Mixture

**G211** Mature pod color _____
3 = Tan 5 = Brown 7 = Black 999 = Mixture

**G241** Number of pods per plant (mean of 20 randomly selected plants) _____

_____ _____ _____ _____ _____ _____ _____ _____ _____ _____

_____ _____ _____ _____ _____ _____ _____ _____ _____ _____

**G381** Number of seeds per pod (mean of 20 randomly selected pods) _____

_____ _____ _____ _____ _____ _____ _____ _____ _____ _____

_____ _____ _____ _____ _____ _____ _____ _____ _____ _____

**G231** Shattering score _____

(estimated percent of pod splitting and seed shattering at a comparable time after maturity)

1 = No shattering 2 = Slight shattering 5 = Medium shattering
7 = Shattering 9 = Highly shattering

**SEED DATA**

**G391** Hard seeds (actual percent) _____

**G301** Seed color _____

1 = Yellowish white 2 = Yellow 3 = Green
4 = Light brown 5 = Brown 6 = Grey
7 = Imperfect black (black shading to buff) 8 = Black
9 = Other (specify) _____ 999 = Mixture

**G311** Seed coat pattern _____

1 = Light hilum 2 = Dark hilum 3 = Saddle 4 = Striped
999 = Mixture

**G321** Hilum color _____

1 = Yellow 2 = Buff 3 = Brown
4 = Green 5 = Grey 6 = Imperfect black (= black with buff outer ring)
7 = Black 8 = Other (specify) _____ 999 = Mixture

**G331** Seed coat surface luster _____

3 = Shiny 5 = Intermediate 7 = Dull 9 = Heavy bloom
999 = Mixture

**G341** 100 seeds weight (gm) _____

(absolute values in g normally measured at 13-15% moisture content)

**G351** Cotyledon color _____

1 = Yellow 2 = Green

**G411** Total oil content (percent on dry seed weight basis) _____

**G421** Protein content (6.25 x N) (percent on dry seed weight basis) _____