AVRDC

The World Vegetable Center

Genetic Resources and Seed Unit (GRSU)

AVRDC-GRSU CHARACTERIZATION RECORD SHEET

Crop: *Amaranthus* **spp.**

Plot No. :   _____   Accession No. :   _____

Sowing Date: _____   Name: _____

Transplanting Date: _____   Species: _____

Location: _____   Origin: _____

SEEDLING DATA

Am110   Germination period (no. of days from sowing to first germination)   _____

Am120   Germination rate   _____
       1 = Rapid (< 2 days)   2 = Slow (2-7 days)
       3 = Very slow (> 7 days)   4 = Irregular

VEGETATIVE DATA

Am210   Growth habit   _____
       1 = Erect   2 = Prostrate

Am220   Plant height (cm) (at flowering stage)   _____

     _____ _____ _____ _____ _____ _____ _____ _____ _____

Am230   Branching index (score if erect growth habit)   _____
       1 = No branches
       2 = Few branches (all near the base of the stem)
       3 = Many branches (all near the base of the stem)
       4 = Branches all along the stem

Am240   Mean length of basal lateral branches (cm)   _____

     _____ _____ _____ _____ _____ _____ _____ _____ _____

Am250   Mean length of top lateral branches (cm)   _____

     _____ _____ _____ _____ _____ _____ _____ _____ _____

Am260   Stem pubescence   _____
       0 = None   3 = Low   7 = Conspicuous

Am270 Stem pigmentation
    1 = Green   2 = Purple or pink   3 = White   X = Mixture   _____

Am280 Spines in leaf axils
   1 = Absent   2 = Present   X = Mixture   _____

Am290 Leaf length (cm) (on 6th or 8th leaf)   _____

    _____ _____ _____ _____ _____ _____ _____ _____

Am300 Leaf width (cm) (on 6th or 8th leaf)   _____

    _____ _____ _____ _____ _____ _____ _____ _____

Am310 Leaf pubescence   _____
    0 = None   3 = Low   7 = Conspicuous

Am320 Leaf pigmentation   _____
    1 = Entire lamina purple or pink
    2 = Basal area pigmented
    3 = Central spot
    4 = Two stripes (V-shaped)
    5 = One stripe (V-shaped)
    6 = Margin and vein pigmented
    7 = One pale green or chlorotic stripe on normal green
    8 = Normal green   9 = Dark green
    10 = Other (specify)   X = Mixture

Am330 Leaf shape   _____
    1 = Lanceolate   2 = Elliptical   3 = Cuneate
    4 = Obovate   5 = Ovatainate   6 = Rhombic
    7 = Oval   8 = Other (specify)   X = Mixture

1. Lanceolate   2. Elliptical   3. Cuneate   4. Obovate
5. Ovatainate   6. Rhombic   7. Oval
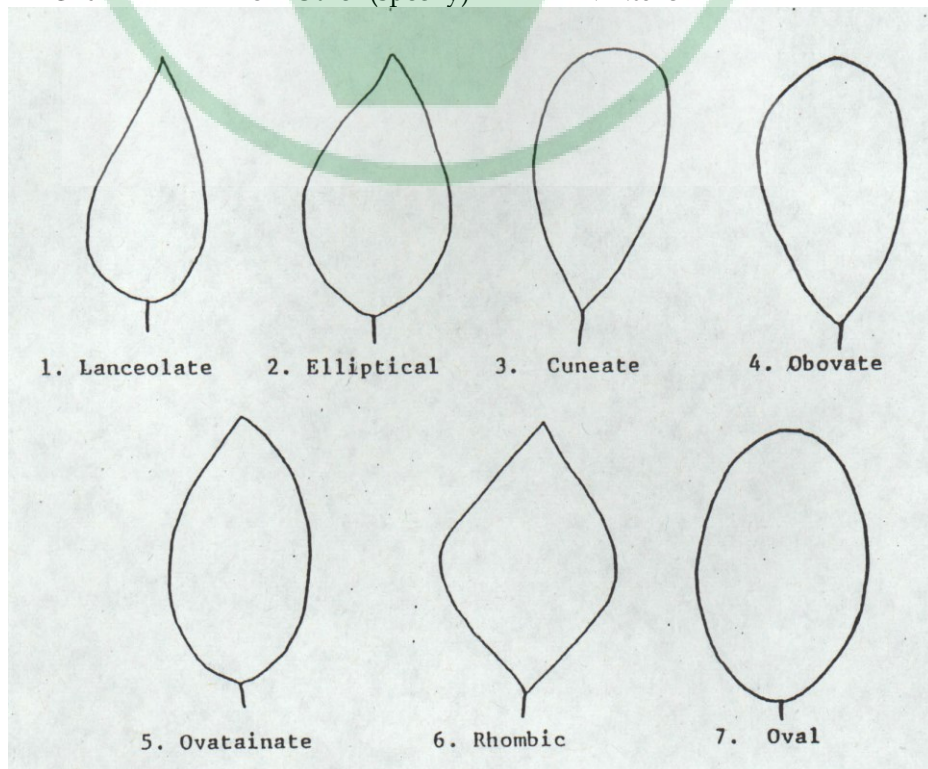
Am340   Leaf margin

        1 = Entire   2 = Crenate   3 = Undulate

        4 = Other (specify)   X = Mixture
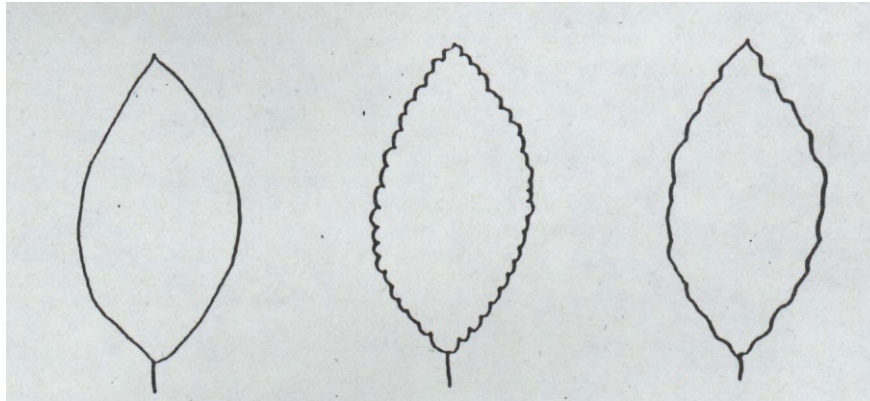
        1. Entire   2. Crenate   3. Undulate

Am350   Prominence of leaf veins

        1 = Smooth   2 = Rugose (veins prominent)

Am360   Petiole pigmentation

        1 = Green   2 = Dark green   3 = Purple

        4 = Dark purple   5 = White   X = Mixture

INFLORESCENCE DATA

Am400   Days to flowering (from sowing to 50% with inflorescence)

Am410   Terminal inflorescence stalk length (cm)

Am420   Terminal inflorescence laterals length (cm)

Am430   Terminal inflorescence shape

        1 = Spike (dense)   2 = Panicle with short branches

        3 = Panicle with long branches   4 = Club-shaped at tips

        5 = Other (specify)   X = Mixture

Am440   Terminal inflorescence attitude

        1 = Erect   2 = Drooping

Am450   Presence of axillary inflorescence

        1 = Absent   2 = Present

Am460   Length of axillary inflorescence (cm)

3

Am470   Sex type   _____

      1 = Monoecious   2 = Dioecious   3 = Polygamous

Am480   Inflorescence density index   _____

      3 = Lax   5 = Intermediate   7 = Dense

Am490   Inflorescence color   _____

      1 = Yellow   2 = Green   3 = Pink   4 = Red
      5 = Other (specify)   X = Mixture

SEED DATA

Am500   Seed shattering   _____

      0 = No shattering   1 = Low (<10%)
      2 = Intermediate (10-50%)   3 = High (>50%)

Am510   Seed color   _____

      1 = Pale yellow   2 = Pink   3 = Red
      4 = Brown   5 = Black   X = Mixture

Am520   Seed coat type   _____

      1 = Translucent   2 = Opaque   X = Mixture

Am530   Seed shape   _____

      1 = Round   2 = Ellipsoid or ovoid

Am540   1000 seeds weight (gm)   _____