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

AVRDC-GRSU CHARACTERIZATION RECORD SHEET

Crop: *Benincasa* **spp.**

Plot No. : _____   Accession No. : _____

Sowing Date: _____   Name: _____

Transplanting Date: _____   Species: _____

Location: _____   Origin: _____

SEEDLING DATA

Ben01   Germination period (no. of days from sowing to 50% emergence)   _____

Ben02   Color of cotyledon   _____
      3 = Light green   5 = Green   7 = Dark green
      X = Mixture

Ben03   Length of cotyledon (mm)   _____

_____ _____ _____ _____ _____ _____ _____ _____ _____ _____

Ben04   Width of cotyledon (mm)   _____

_____ _____ _____ _____ _____ _____ _____ _____ _____ _____

Ben05   Cotyledon size   _____
      3 = Small (below 2 cm)   5 = Medium (2-4 cm)   7 = Large (above 4 cm)

Ben06   Cotyledon shape   _____
      1 = Short elliptic   2 = Elliptic   3 = Oblong
      X = Mixture

VEGETATIVE DATA

Ben07   Plant growth habit   _____
      3 = Bushy   5 = Intermediate   7 = Prostrate
      X = Mixture

Ben08   Number of side shoots   _____

_____ _____ _____ _____ _____ _____ _____ _____ _____ _____

Ben09   Stem shape
    1 = Round   2 = Angular   _____

Ben10   Main vine length (cm)   _____

_____ _____ _____ _____ _____ _____ _____ _____ _____ _____

Ben11   Main vine diameter (cm)   _____

_____ _____ _____ _____ _____ _____ _____ _____ _____ _____

Ben12   Length of inter-node (cm)   _____

_____ _____ _____ _____ _____ _____ _____ _____ _____ _____

Ben13   Tendrils   _____
    0 = Absent   1 = Present

Ben14   Leaf color   _____
    3 = Light green   5 = Green   7 = Dark green

Ben15   Leaf pubescence density   _____
    0 = No hairs   3 = Sparse   5 = Intermediate   7 = Dense

Ben16   Leaf shape   _____
    1 = Ovate   2 = Orbicular   3 = Reniform   4 = Retuse

Ben17   Leaf lobes   _____
    0 = Absent   3 = Shallow   5 = Intermediate   7 = Deep

Ben18   Leaf margin   _____
    1 = Entire   2 = Dented

Ben19   Length of petiole (cm)   _____

_____ _____ _____ _____ _____ _____ _____ _____ _____ _____

Ben20   Leaf length (cm)   _____

_____ _____ _____ _____ _____ _____ _____ _____ _____ _____

Ben21   Leaf width (cm)   _____

_____ _____ _____ _____ _____ _____ _____ _____ _____ _____

INFLORESCENCE DATA

Ben22   Days to first female flower   _____

Ben23   Node number of first female flower   _____

_____ _____ _____ _____ _____ _____ _____ _____ _____ _____

Ben24   Time of flowering   _____
          1 = Morning   2 = Dusk

Ben25   Pistillate petal length (cm)   _____

_____ _____ _____ _____ _____ _____ _____ _____ _____ _____

Ben26   Pistillate petal width (cm)   _____

_____ _____ _____ _____ _____ _____ _____ _____ _____ _____

Ben27   Sex type   _____
          1 = Monoecious   2 = Gynomonoecious
          3 = Andromonoecious   4 = Hermaphrodotic
          5 = Androecious   6 = Gynoecious
          7 = Dioecious   8 = Male sterile
          9 = Female sterile

Ben28   Ovary shape   _____
          1 = Slender   2 = Elliptic   3 = Global
          4 = Elongated   5 = Oblong   6 = Round

Ben29   Ovary color   _____
          3 = Light green   5 = Green   7 = Dark green

Ben30   Ovary pubescence   _____
          1 = Sparse   2 = Medium   3 = Abundant

Ben31   Ovary length (cm)   _____

_____ _____ _____ _____ _____ _____ _____ _____ _____ _____

Ben32   Ovary diameter (cm)   _____

_____ _____ _____ _____ _____ _____ _____ _____ _____ _____

FRUIT DATA

Ben33   Fruit set   _____
          3 = Poor   5 = Medium   7 = Good

Ben34   Days to harvesting at commercial stage   _____

Ben35   Fruit shape

        1 = Round   2 = Short round   3 = Long rod shaped
        4 = Oblong   5 = Elongated   6 = Elliptic

        _____

Ben36   Stem-end shape

        1 = Depressed   3 = Flattened
        5 = Rounded   7 = Pointed

        _____

Ben37   Blossom-end fruit shape

        1 = Depressed   3 = Flattened
        5 = Rounded   7 = Pointed

        _____

Ben38   Fruit skin waxiness

        1 = Absent   2 = Intermediate   3 = Intense

        _____

Ben39   Fruit skin color

        1 = Light green   2 = Green   3 = Dark green

        _____

Ben40   Fruit skin texture

        1 = Smooth   2 = Grainy   3 = Finely wrinkled

        _____

Ben41   Fruit mottling

        1 = Absent   2 = White
        3 = Pale yellow green   4 = Green

        _____

Ben42   Fruit pubescence

        1 = Absent   2 = Present

        _____

Ben43   Peduncle transactional shape

        1 = Round   2 = Smoothly angled   3 = Sharply angular

        _____

Ben44   Length of peduncle (cm)

        _____

        ____ ____ ____ ____ ____ ____ ____ ____ ____

Ben45   Peduncle thickness (mm)

        _____

        ____ ____ ____ ____ ____ ____ ____ ____ ____

Ben46   Fruit weight (g)

        _____

        ____ ____ ____ ____ ____ ____ ____ ____ ____

Ben47   Fruit length at table use maturity (cm)

        _____

        ____ ____ ____ ____ ____ ____ ____ ____ ____

Ben48   Fruit width at table use maturity (cm)

        _____

        ____ ____ ____ ____ ____ ____ ____ ____ ____

Ben49   Flesh thickness (mm)

        _____

        ____ ____ ____ ____ ____ ____ ____ ____ ____

Ben50   Flesh texture   ____

                    1 = Smooth (firm)   2 =Grainy (firm)   3 = Soft
                    4 = Fibrous   5 = Others

Ben51   Seed cavity   ____

                    1 = Absent   2 = Small
                    3 = Medium   4 = Large

SEED DATA

Ben52   Number of seeds per fruit   ____

         ____   ____   ____   ____   ____   ____   ____   ____   ____   ____

Ben53   Ease of seed separation from placenta   ____

                    1 = Ease   2 = Intermediate   3 = Difficult

Ben54   Seed surface luster   ____

                    1 = Dull   2 = Intermediate   3 = Glossy

Ben55   Seed color   ____

                    1 = Black   2 = Grey   3 = Brown

Ben56   1000 seeds weight (gm)   ____