

TSC DESCRIPTORS FORMAT

A. GENERAL DESCRIPTORS

1. **Species:** *Manihot esculenta* Crantz.
2. **Name of variety:** UMUCASS 33
3. **Original name or Breeder's code:** CR 41-10
4. (a). **Origin/Source of variety:** International Center for Tropical Agriculture (CIAT), Colombia
(b). **Name and address of developing/introducing organization:** National Root Crops Research Institute (NRCRI), Umudike, Nigeria.
(c). **Breeders:** Dr. Martin Fregene, Dr. Emmanuel Okogbenin and Dr. Chiedozie Egesi
(d). **Collaborators:** Dr. F.O. Ogbe; and Dr. O.N. Eke-Okoro
5. **Type of variety:** Hybrid
6. **Ploidy level:** Diploid
7. **Pedigree:** C18 (TME3 X TMS30555) X MCOL2056 – (intra-specific crosses between CMD resistant Nigerian elite selections and Colombian local elite variety)
8. **Morphological characteristics:** Erect plant type with mixed branching
9. **Adaptation:** widely adapted across the agroecologies from the humid forest in southern Nigeria to the savanna in the north
10. **Days to maturity:** could be harvested 10-12 months of age
11. **Potential root yield:** 46.6 t/ha
12. **Pest/Disease tolerance:** resistant to cassava mosaic disease (CMD), cassava bacterial blight (CBB), cassava anthracnose disease (CAD), cassava green mite (CGM), Cassava mealybug (CM).
13. **Outstanding characteristics:** Very suitable for intercropping, early maturing, high yielding, suitable for food and industry, tolerance to acidic soils
14. **Nutrient content:** Starch (22.4%), Dry matter (42%), Protein (2.05%)
15. **Year of release:** 2010

SPECIFIC DESCRIPTORS FOR UMUCASS 33

1. **Plant type:** tall (about 2-3 m)
2. **Branching habit:** branches lightly
3. **Height of branching:** high (0.5-2.0 m)
4. **Suitability for mixed cropping:** suitable
5. **Colour of unexpanded young leaf:** greenish purple
6. **First fully expanded leaf colour:** light green
7. **Pubescence of young leaf:** present
8. **Central leaf lobe shape:** elliptic
9. **Petiole colour:** red
10. **Young stem colour:** green with purple taint
11. **Stem colour:** light brown (maroon)
12. **Flower:** present
13. **Root neck length:** medium
14. **Outer root skin colour:** deep brown
15. **Inner root skin colour:** light yellow
16. **Pulp colour:** cream
17. **CNP:** 101 ppm
18. **Dry matter of fresh roots (%):** 42
19. **Starch of dry roots (%):** 96
20. **Gari yield (%):** 24.11

UMUCASS 33 (CR 41 – 10)

