

Improved Cassava Varieties Healthy Stems For Better Yields

➔ VARIETY TMS 0505

Plant type	Moderate in height (2-3m)
Branching habit	Profuse
Suitability for mixed cropping	Not suitable
Duration to Maturity	9-12 Months
Quality (Cooking)	Medium
Average Yield (Taraba) Fertilized	34 MT/Ha
Average Yields (Taraba) Unfertilized	25 MT/Ha
Average Yields (Taraba)	29 MT/Ha
Dry matter of fresh roots (%)	36.2

The TMS 98/0505 is among the 12 cassava mosaic disease (CMD) resistant varieties developed by the International Institute of Tropical Agriculture (IITA) and released in 2010. It is an improved *Tropical Manihot esculenta* species moderately branching in habit and grows to a medium height of 2-3 m. It is not suitable for intercropping due to early shading. It is the joint third largest yielding variety (34 metric tons/ha) with fertilizer application in IFDC field demonstrations in Taraba and Kwara/Osun states. It is the highest yielding variety in IFDC field demonstrations in Rivers State in Nigeria. TMS 98/0505 is susceptible to drought compared to TMS 98/0581 and TME 419 according to IFDC field demonstration reports from Taraba and Kwara/Osun. It is also highly susceptible to rodent attacks due to its shallow lateral rooting. Losses from water stress and root rots from rodent damage resulted in large yield reductions when compared to TME 419 and TMS 98/0581 in Taraba and Kwara/Osun. In rivers heavy rains most of the year favours TMS 98/0505 compared to the other two varieties. The TME 419 and TMS 0581 grew thin long stems and produced fewer roots compared to TMS 98/0505 in Rivers state. It is low in cyanide and the roots can be cooked and eaten fresh. It has high dry matter content (36%)



Healthy Stems For Better Yields

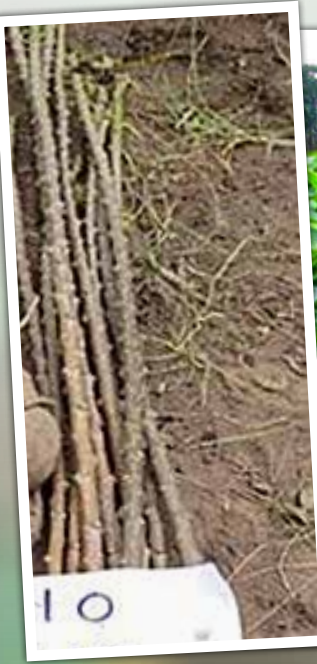
VARIETY TME 419



Plant type	Tall (3-4 m) in height
Branching habit	Profuse.
Suitability for mixed cropping	Not suitable
Duration to Maturity	9-12 Months
Quality (Cooking)	Medium
Average Yield (Taraba) Fertilized	34 MT/Ha
Average Yields (Taraba) Unfertilized	25 MT/Ha
Average Yields (Taraba)	29 MT/Ha
Dry matter of fresh roots (%)	39

Characteristics of Variety TME 419

TME 419 is a tropical *Manihot esculenta* landrace from Togo. It is one of the 12 Cassava Mosaic Disease (CMD) resistant varieties recently released by the International Institute of Tropical Agriculture (IITA). It is a tall variety growing to a height of 3-4 m. The stem growth habit is straight allowing for efficient use of farm machinery in weed, pest and disease management and harvesting. However straight stems also encourage early weed establishment and weed competition with cassava. TME 419 is low in cyanide and the fresh roots can be cooked and served. It has high dry matter content (39%) and produces more than 40 metric tons/ha of fresh roots under optimum management in the Guinea grassland ecological regions in Nigeria.



Healthy Stems For Better Yields

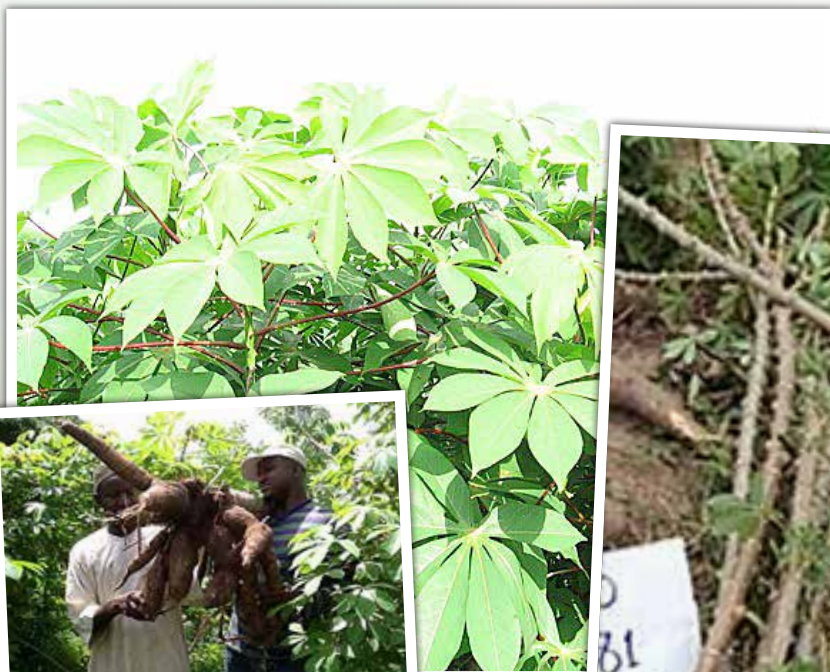
VARIETY TMS 98/0581



Plant type	Tall (3 m)
Branching Habit	Moderately profuse
Suitability for mixed cropping	Fairly suitable
Duration to maturity	9-12 Months
Average yields (Taraba) fertilized	40 MT/Ha
Average yields (Taraba) unfertilized	29 MT/Ha
Average fertilized and unfertilized	34 MT/ha
Dry matter of fresh roots (%)	36

Characteristics of Variety TMS 98/0581

TMS 98/0581 is a Tropical *Manihot esculenta* species developed by the International Institute of Tropical Agriculture (IITA) and is one of the 12 Cassava Mosaic Disease resistant varieties released in 2010. It is a tall variety growing to a height of 3 m. The stem growth habit is branching and profuse leading to early shading, good weed control but limits mechanization of weeding, pest and disease management. It is one of the highest yielding varieties. It produced 40 MT/ha under IFDC field demonstrations in Taraba with fertilizer application. It has similar yields as the TME 419 but produces lower dry matter 36% compared to TME 419 (39) under Taraba and Kwara/Osun conditions. TMS 98/0581 is low in cyanide and roots can be cooked and eaten fresh.



Healthy Stems For Better Yields

VARIETY TMS 30572



Plant type	Moderate (1.8 -2.5 m)
Branching Habit	Moderately profuse
Suitability for mixed cropping	Fairly suitable
Duration to maturity	9-12 months
Average yields (Taraba) Fertilized	35 MT/Ha
Average yields (Taraba) unfertilized	21 MT/Ha
Average Yields Fertilized and unfertilized	27 MT/Ha
Dry matter of fresh roots (%)	36

Characteristics of Variety TMS 30572

TMS 30572 is a Tropical Manihot esculenta species developed by the International Institute of Tropical Agriculture (IITA). It is a universal variety suitable for nearly all cassava growing areas in Nigeria. It is also a reference variety used in performance trials to compare the performance of improved cassava varieties against local checks. It is one of the oldest varieties released by IITA. It is a medium height variety growing to a height of 1.8 to 2.5 m. The stem growth habit is branching and moderately profuse leading to early shading, good weed control but limits mechanization of weeding, pest and disease management. It is moderately high yielding (34 MT/Ha) with fertilizer application in IFDC field demonstrations in Taraba and Kwara/Osun. It is low in cyanide and roots can be cooked and eaten fresh. It is high in dry matter (36%).

