

Root yield (t/ha) of TMS 98/0581 released in 2005 under multilocal trials.

Location	TMS 98/0581
Obrikom	29.1 (11.6)
Calabar	12.3 (10.8)
Uyo	18.1 (17.5)
Warri	25.5 (19.9)
Onne	21.3 (20.7)
Ubiaja	27.1 (27.1)
Egbema	30.4 (21.5)
Umudike	20.8 (20.7)
Otobi	21.9 (21.0)
Ishiagu	25.2 (24.4)
Nsukka	8.3 (8.3)
Ibadan	18.1 (11.2)
Osogbo	11.2 (11.2)
Mokwa	47.3 (30.3)
Abuja	23.2 (22.8)
Kaduna	34.4 (30.1)

Root yield (t/ha) under On-farm trials in 12 states of TMS 98/0581 released in 2005

State	TMS 98/0581
Abia	12.6
Ebonyi	13.8
Anambra	9.5
Delta	14.2
Edo	18.8
Bayelsa	7.1
C. River	9.1
Rivers	8.9
Ondo	30.0

Collaborating Institutions

- Agricultural Development Programs
- Agro Service Centre, Awa
- Cassava Processors
- Chaddok Farms, Owerri
- College of Agriculture Umuagwo
- De-ladder establishments Ltd.
- Ekha Agro farms Ltd.
- Federal Ministry of Agriculture and Rural Development
- Federal Ministry of Commerce
- Fed. College of Agriculture, Akure
- Federal University of Technology, Owerri
- Green River Project, NAOC
- Hill View farms Saboginda, Kaduna
- Institute for Agricultural Research and Training, Ibadan
- Jolly Farms, Ebubu, Eleme
- Matna Foods Company Ltd., Akure
- National Root Crops Research Institute
- Niger Delta Development Commission
- Nigeria Cassava Growers Association
- Nigeria Starch Mills
- Obasanjo Farms Nigeria Ltd.
- Oku Farm, Onne
- Root and Tuber Expansion Program
- SHELL Agric Demonstration Farm, Warri
- Songhai Farm, Warri
- University of Agriculture, Abeokuta
- University of Calabar
- University of Ibadan
- University of Nigeria Nsukka
- University of Science and Technology, Onne and Port Harcourt

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New Cassava Variety Series



TMS 98/0581

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TMS 98/0581

1. **Species:** *Manihot esculenta* Crantz
2. **Name of variety:** TMS 98/0581
3. **Original name or Breeder's code:** TMS 98/0581
4. (a). **Origin/Source of variety:** International Institute of Tropical Agriculture (IITA), Oyo Road, Ibadan
- (b). **Name and address of developing/introducing organization:** IITA and National Root Crops Research Institute (NRCRI), Umudike.
- (c). **Principal Breeder:** Dr. A. G. O. Dixon
- (d). **Collaborators:** Prof. M.O. Akoroda, Dr. C. Egesi, Dr. F.O. Ogbe
5. **Type of variety:** Hybrid
6. **Ploidy level:** Diploid

TMS 98/0581 was released in Nigeria on September 1, 2005. The variety was tested in On-farm trials, Demonstration trials and multilocal trials along with 3 known checks TMS 30572, TMS 4(2)1425, and 82/00058. It was found to have multiple pest resistance, high yielding and suitable for food, industry, and livestock feed.

National Committee on naming, registration, and release of crop varieties, livestock breeding, and fisheries.



Characteristics of TMS 98/0581

a. General Descriptors

Original name or Breeder's code	TMS 98/0581
Pedigree	MPR POP REP 1 bulk
Days to maturity (months)	12
Potential root yield (t/ha)	47.3

b. Specific Descriptors

Plant type	Tall (about 3m)
Branching habit	Moderately profuse
Height of branching	0.5–1.0 m
Suitability for mixed cropping	Fairly suitable
Color of unexpanded young leaf	Purple
First fully expanded leaf color	Green with taint of red towards the base of the leaflets
Pubescence of young leaf	High pubescence
Central leaf lobe shape	Elliptic
Petiole color	Red
Young stem color	Green with taint of red
Stem color	Light yellow
Flower	Absent
Root neck length	Short
Outer root skin color	Tan (yellowish brown)
Inner root skin color	White or cream
Pulp color	White or cream
CNP (ppm)	114.7
Dry matter of fresh roots (%)	36.0
Gari yield (%)	22.0
Proximate composition of dry roots	
Starch (%)	68.1
Sugar (%)	5.1
Protein (%)	3.4
Ash (%)	2.3
Fibre (%)	1.0
Amylose % of the starch	19.8