

Cassava varieties with high dry matter and starch content

Enhancing cassava yields and quality for greater food security in Africa.

This technology involves improved varieties of cassava with enhanced dry matter content. Through conventional breeding and other methods, these cassava IBATEICE2.



International Institute of Tropical Agriculture (IITA) Elizabeth Parkes

varieties have been developed. These high-quality roots are well-suited to the Technology from needs of farmers and various industrial processes. ProPAS This technology is **TAAT1 validated**. \checkmark 8.8 Commodities Cassava 4 **5** Gender assessment Climate impact Sustainable Development Goals Problem Solution • Low Dry Matter and Starch Content: • Higher Dry Matter & Starch: Enhances root quality for fresh and industrial use. Traditional cassava varieties often have low dry matter and starch content, reducing their · Increased Yields: Boosts cassava yield and economic value and utility in food and industrial economic returns. applications. · Adaptability: Resistant to pests, diseases, and • Limited Variety Options: Farmers have limited harsh conditions. Categories access to high-quality cassava varieties, which · Food Security: Produces nutritious, high-yield restricts their ability to improve crop yields and crops. Production, Improved varieties, quality. Yield improvement, Quality improvement Best used with Key points to design your program Digital Decision Support <u>Tool ></u> A Solution for Cassava Cultivation Tested/adopted in Improved cassava varieties with high dry matter and starch content tackle challenges such as low yields, poor root quality, and vulnerability to diseases. These varieties are ideal for fresh consumption and industrial uses, including starch, flour, and ethanol production, offering higher productivity and economic benefits for farmers and processors. Tested & adopted As part of the Cassava Toolkit, they synergize with other innovations to improve efficiency and sustainability: Ad opted Tested Testing ongoing • Mechanized Cassava Planting and Harvesting: Reduces labor and increases efficiency in planting and harvesting. Where it can be used • Mobile Cassava Processing Plant: Minimizes post-harvest losses through on-site processing. This technology can be used in the colored • Semi-Autotrophic Hydroponics (SAH) for Cassava Multiplication: Accelerates production of disease-free agro-ecological zones planting materials. • Cassava Seed-Bulking Farms: Ensures a steady supply of pest- and disease-free cassava cuttings. • Solar Bubble Dryer: Improves drying efficiency and product quality. ROI: **\$\$**\$ Cost: **\$\$**\$ 40 - 45 % 80 - 95 % \bigcirc IP 35 ton/ha potential yield dry mater content starch content Plant variety protection

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Enquiries e-catalogs@taat.africa