DTMA & WEMA: Drought Tolerant Maize Varieties and





AATF

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Technology from

ProPAS

Commodities

Maize

Sustainable Development Goals







Categories

Production, Improved varieties.

Adopted

Tested

Tested/adopted in

Disease resistance, Yield improvement

Water Efficient Maize Varieties

Enhance farm's resilience with DTMA and WEMA maize varieties, ensuring consistent yields even in unpredictable weather.

These seed technologies, developed conventionally and biotechnologically, enhance maize resilience to soil dryness and water scarcity, outperforming traditional varieties across various water stress levels in both dry and intermittently wet climates.



This technology is **TAAT1 validated**





8/9; level of use: 8/9

0.8-1.2 USD/kg (Cost: **\$\$**\$)

240 USD

Income per Ha

0.6 ton/Ha

20-30 %

∵ıp Unknown

Yield increase

Larger grain harvest than common type

Problem

• Dependence on Rainfall: Over 90% of African maize farming is rainfed, leaving crops vulnerable to unpredictable weather patterns.

Seed selling cost

- Yield Instability: Conventional varieties are highly sensitive to water availability, leading to inconsistent yields.
- Crop Failure Risk: Insufficient rainfall can result in complete crop loss, jeopardizing livelihoods.

Solution

- Enhanced Resilience: DTMA and WEMA outperform conventional varieties under various water stress levels.
- · Increased Productivity: Adoption of these grain production.
- Improved Crop Resilience: Crops become

Key points to design your business plan

This technology is beneficial for three main groups: manufacturers, resellers, and end users.

Efficient seed multiplication requires sourcing Foundation or Registered seed and purchasing a commercial license.

Success in this market requires bulk sourcing, efficient transportation, and suitable storage facilities.

Key partners needed for users are sellers of the varieties.

- varieties leads to substantial increases in maize
- more robust, with heightened resistance to dry spells and low rainfall.



Target groups

Farmers

Gender assessment



Climate impact



