



# DTMA & WEMA: Drought Tolerant Maize Varieties and Water Efficient Maize Varieties

Enhance farm's resilience with DTMA and WEMA maize

varieties, ensuring consistent yields even in unpredictable

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



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Technology from

ProPAS

Commodities

Maize

Sustainable Development Goals







Gender assessment

8.8

## Climate impact

#### **Problem**

weather.

wet climates.

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

This technology is **TAAT1** validated.

- 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 varieties leads to substantial increases in maize grain production.
- Improved Crop Resilience: Crops become more robust, with heightened resistance to dry spells and low rainfall.

#### Categories

Production, Improved varieties. Disease resistance, Yield improvement

Tested/adopted in \_\_\_ Tested

This technology can be used in the colored

Where it can be used

agro-ecological zones.

### Key points to design your project

- Estimate seed quantity needed (0.8 to 1.2 USD per kg, 25 kg/ha).
- Factor in delivery costs, import duties (available in Kenya, Malawi, etc.).
- Arrange training and post-training support.
- Develop communication materials (flyers, videos, radio)
- Optimize with complementary techniques (e.g., IR maize, fertilizer blending).
- Collaborate with agricultural institutes and seed companies for implementation.

(ROI: \$\$\$) 240 USD

Income per Ha

Seed selling cost

Cost: \$\$\$ 0.8—1.2 USD/kg

20-30 %

0.6 ton/Ha Yield increase

Larger grain harvest than common type

Unknown

Target groups Farmers

