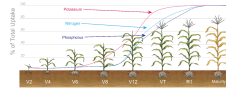


# Pre-plant blended fertilizers and nitrogen topdressing for maize

Unlock Maize Potential with Balanced Fertilizer Bliss!



Pre-plant blended fertilizers for maize is a technology involved to carefully mixed solid granular fertilizers, including urea, calcium ammonium nitrate, and potassium chloride, to meet maize crop nutrient needs.

✓ This technology is **TAAT validated**.

8-9 Scaling readiness: idea maturity: 8/9; level of use: 9/9

<b>0.3—0.5 ton/ha</b> Grain yield increase	<b>30 %</b> N uptake increase	<b>57 %</b> P uptake increase	<b>IP</b> Trademark
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### Problem

- Traditional fertilizer application methods often lead to uneven nutrient distribution,
- Improper dosages and application schedules of mineral fertilizers are common,
- Inefficient nutrient application practices can lead to environmental losses, including nutrient runoff and leaching.

### Solution

- Implementing pre-plant blended fertilizers and nitrogen topdressing for precise and efficient nutrient delivery,
- Providing specific nutrient blends to address inadequate nutrient supply for healthier and more productive maize crops.
- Promoting responsible fertilizer use through carefully formulated blends and split applications, minimizing wastage

### Key points to design your business plan

Utilizing pre-plant blended fertilizers and nitrogen topdressing for maize offers a significant opportunity to improve crop productivity and sustainability. Key considerations for implementing this technology include:

- Identifying appropriate fertilizer formulations tailored to specific soil and crop needs,
- Considering delivery expenses to project sites across several countries, and forming partnerships with agricultural stakeholders to optimize outcomes.
- Additionally, integrating complementary technologies such as drought-tolerant maize varieties, herbicides for weed control, and specialized maize varieties can further enhance the benefits of this approach.

Gender assessment 4

Climate impact 5

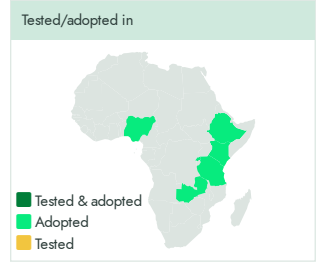
**International Institute of Tropical Agriculture (IITA)**  
Jonga Munyaradzi

Technology from  
**ProPAS**

Commodities  
Maize

Sustainable Development Goals

Categories  
Production, Inputs, Fertilizer



Where it can be used

This technology can be used in the colored agro-ecological zones.

Target groups  
Farmers



Pre-plant blended fertilizers and nitrogen topdressing for maize  
<https://e-catalogs.taatafrica.org/com/technologies/pre-plant-blended-fertilizers-and-nitrogen-topdressing-for-maize>  
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