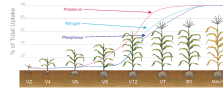


# Pre-plant blended fertilizers and nitrogen topdressing for maize

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 **TAAT1 validated**.
 Scaling readiness: idea maturity 8/9; level of use 9/9

Gender assessment 4

Climate impact 5

### 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

**0.3—0.5 ton/ha** Grain yield increase    
 **30 %** N uptake increase    
 **57 %** P uptake increase    
 IP Trademark

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

Technology originally documented by  
**ProPAS**

Commodities  
Maize

Sustainable Development Goals

Categories  
Production, Inputs, Fertilizer

Tested/adopted in

- Tested & adopted
- Adopted
- Tested

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/org/technologies/pre-plant-blended-fertilizers-and-nitrogen-topdressing-for-maize>  
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