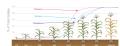
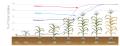


Pre-plant blended fertilizers and nitrogen topdressing for maize



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.



○IP

Trademark



International Institute of Tropical Agriculture (IITA) Jonga Munyaradzi

Technology from

ProPAS

Commodities

This technology is **TAAT1** validated

0.3-0.5 ton/ha

Grain yield increase

30 %

57 %

P uptake increase

N uptake increase

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

8.9

- · 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

Sustainable Development Goals





Categories

Production, Inputs, Fertilizer

Tested/adopted in



Where it can be used

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



Target groups

Farmers

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



Climate impact

