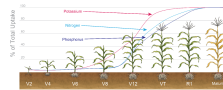


Pre-plant blended fertilizers and nitrogen topdressing for maize

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**.

8.9



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

Key points to design your project

The technology of pre-plant blended fertilizers and nitrogen topdressing for maize offers several benefits. Key steps to integrate this technology include:

- Identifying appropriate formulations, developing mixing protocols, brokering market entries,
- Conducting farmer demonstrations, providing financial support,
- Estimating required quantities, budgeting costs, allocating funds for training and support, developing communication materials, and forming partnerships with relevant stakeholders.

0.3—0.5 ton/ha

Grain yield increase

30 %

N uptake increase

57 %

P uptake increase



Trademark



International Institute of Tropical Agriculture (IITA)
Jonga Munyaradzi

Technology originally documented by

ProPAS

Commodities

Maize

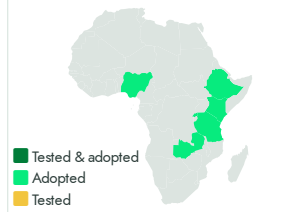
Sustainable Development Goals



Categories

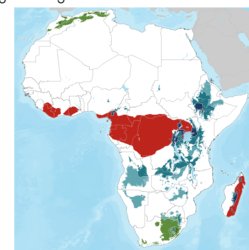
Production, Inputs, Fertilizer

Tested/adopted in



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

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