IR maize Imazapyr resistant maize for Striga management

Boost maize yields while eliminating the issue of Striga infestation

The genetically modified IR maize lines coated with herbicide through seed dressing, proves effective in controlling Striga with lower herbicide quantities, targeting the pest during critical crop establishment stages.

This technology is TAAT1 validated.

7·7 Scaling readiness: idea maturity 7/9; level of use 7/9

Gender assessment 4

Climate impact 7

Problem

- Striga weed infestations in maize crops lead to significant yield losses.
- They reduce grain yields and crop productivity by competing with maize for nutrients and water.
- This prompts herbicide reliance and the need for effective Striga control methods.

Solution

- The IR maize, coated with herbicide through seed dressing, there is increased effectiveness in Striga control, with a reduced need for herbicide.
- Its improving grain yields and minimizing Striga dispersal on farmlands.
- It is also recommended to combine this technology with appropriate soil and fertilizer management for optimal outcomes.

Cost: $$$ **1.5—2.5 USD**

per kg

IP

Open source / open access

International Institute of Tropical Agriculture (IITA)
Jonga Munyaradzi

Technology originally documented by

ProPAS

Commodities

Maize

Sustainable Development Goals

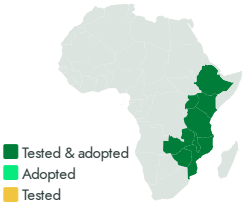
2 ZERO HUNGER

8 DECENT WORK AND ECONOMIC GROWTH

Categories

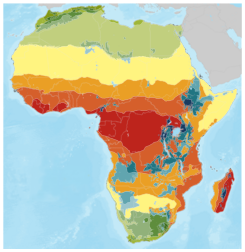
Production, Improved varieties, Weed resistance, Yield improvement

Tested/adopted in



Where it can be used

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



Target groups

Farmers