

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.



African Agricultural Technology Foundation (AATF)

Jonga Munyaradzi

✓ This technology is **TAAT1 validated**.

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

📄 Project adoption **4**

Technology integrated in the Guinea, ENSURE, PADCV-PTA, and PUPSAN projects, in Guinea, Democratic Republic of the Congo, and Mali.

Inclusion assessment **4**

Climate impact **7**

Technology from

ProPAS

Commodities

Maize

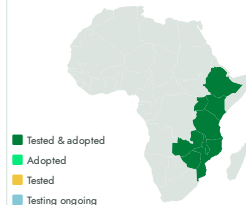
Sustainable Development Goals



Categories

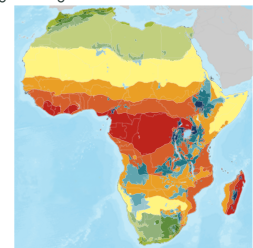
Production, Improved varieties, Weed resistance, Yield improvement

Tested/adopted in



Where it can be used

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



Target groups

Farmers

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.

Key points to design your program

IR maize technologies improve maize productivity by controlling **Striga hermonthica** through herbicide-coated resistant seed integrated with good agronomic practices. Suitable for food security, sustainable crop intensification, and agricultural productivity programmes, the technology contributes to **SDGs 2 (Zero Hunger)** and **8 (Decent Work and Economic Growth)** while improving access to quality seed and strengthening farmer livelihoods. To successfully integrate this technology, consider the following key actions:

- Target maize-growing areas heavily affected by **Striga** infestation.
- Establish partnerships with IITA, AATF, seed companies, extension services, farmer organizations, and national seed authorities to strengthen certified seed production and technology dissemination.
- Support quality seed systems, promote integrated **Striga** management through improved soil fertility and legume-based cropping systems, and strengthen farmer capacity on safe seed handling and recommended agronomic practices.
- Monitor technology adoption, **Striga** incidence, maize productivity, farmer income, and programme outcomes.



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IR maize

<https://taat.africa/dsy>

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Enquiries e_catalogs@taat.africa