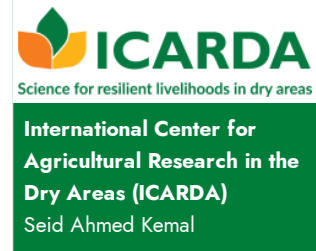


Integrated Orobanche Management on Faba bean: Resistant Faba Bean and Low-Dose Herbicide Package



Restoring faba bean productivity by defeating Orobanche.

Integrated Orobanche Management (IOM) is an evidence-based approach that combines a resistant faba bean variety with low-dose Glyphosate to control *Orobanche crenata*, one of the most destructive constraints to faba bean production. The technology restores productivity, strengthens food security and soil fertility, and has demonstrated strong farmer acceptance, making it ready for large-scale dissemination in affected areas.

This technology is **pre-validated**.

9-9



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

Inclusion assessment

12

12

STOP 12

Climate impact

7

Problem

- **Major productivity losses:** Orobanche can cause complete crop failure, reducing pulse production potential.
- **Threats to food and nutrition security:** Declining faba bean production affects access to an affordable protein source.
- **Reduced farmer livelihoods and soil fertility:** Lower legume production impacts household income and sustainable crop rotations.
- **Persistent parasitic weed pressure:** Long-lasting Orobanche seeds and limited management knowledge make control challenging.

Solution

- **Improves food security:** Restores faba bean production, a key source of affordable protein for millions of households.
- **Boosts agricultural productivity:** Reduces Orobanche infestation and enables farmers to recover yields from affected fields.
- **Supports sustainable farming systems:** Maintains legume-based rotations that improve soil fertility and reduces long-term weed pressure.
- **Enables large-scale adoption:** Provides a validated, farmer-tested package suitable for extension and scaling.

Key points to design your project

The technology restores faba bean production, a key affordable protein source for Ethiopian households.

- **Agricultural productivity:** Controls a major production constraint that can cause up to **100% yield loss** in affected fields.
- **Livelihood improvement:** Increases farmer income and enables the recovery of Orobanche-affected farmland.
- **Sustainable agriculture:** Supports legume-based rotations that improve soil fertility and reduce dependence on synthetic fertilizers.
- **Scaling potential:** Ready for integration into extension programs, seed systems, and pulse development initiatives through partnerships with research institutions and farmer organizations.



Open source / open access

Technology from

PRMS

Commodities

Faba bean

Sustainable Development Goals



Categories

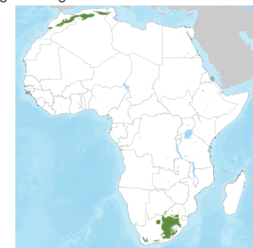
Production, Improved varieties, Weed resistance

Tested/adopted in



Where it can be used

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



Target groups

Breeders, Farmers, Seed companies,



Integrated Orobanche Management on Faba bean

<https://taat.africa/cmz>

Last updated on Jul 24, 2026 printed on Jul 24, 2026

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