FAW Monitor-and-Act: Pheromone-Guided Integrated Pest Management (IPM) for Summer Maize

Monitor smart. Spray only when needed. Protect your maize.



ICARDA - LARI
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FAW Monitor-and-Act provides an evidence-based approach for managing Fall Armyworm while supporting sustainable agricultural policies and plant health systems. By integrating pest monitoring and targeted control measures, the technology helps reduce pesticide misuse, strengthen pest surveillance, protect the environment, and improve the sustainability of maize production.

⚠ This technology is **not yet validated**.

9·3 Scaling readiness: idea maturity 9/9; level of use3/9

Inclusion assessment 12 12 12

Climate impact 7

Problem

- **Pesticide misuse:** Excessive pesticide use poses risks to human health and food safety.
- **Environmental degradation:** Indiscriminate spraying harms biodiversity and beneficial insects.
- **Weak pest surveillance:** Limited monitoring reduces the effectiveness of early warning and response systems.
- **Threats to national maize production:** FAW outbreaks reduce productivity and affect national food security.

Solution

- **Stronger pest surveillance:** Provides monitoring data to improve early warning systems and pest management decisions.
- **Safer agricultural practices:** Reduces pesticide misuse and protects human health and the environment.
- **Resilient maize production:** Supports long-term plant health strategies and national food security.

Key points to design your project

FAW SmartTrap is a climate-smart Integrated Pest Management solution that helps governments protect maize production, strengthen plant health systems, and reduce pesticide-related risks.

Key project activities to plan:

- Establish FAW monitoring systems using pheromone traps and field scouting.
- Train extension agents, lead farmers, and farmers on IPM practices.
- Promote adoption through demonstrations, field days, and innovation platforms.
- Ensure access to required inputs, including traps, lures, registered pesticides, and safety equipment.
- Build partnerships among research institutions, extension services, private sector, and farmer organizations.

Key partners: Research institutions (ICARDA, LARI), CGIAR Plant Health Initiative, extension services, input suppliers, and farmer networks.

IP

Open source / open access

Technology from

PRMS

Commodities

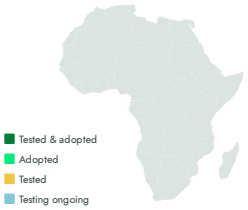
Maize

Sustainable Development Goals

Categories

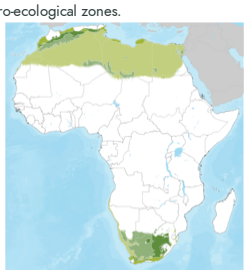
Production, Practices,
Pest control (excluding weeds),
Pest Identification

Tested/adopted in



Where it can be used

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



Target groups

Farmers, Researcher center,
Advisory and Extension Services