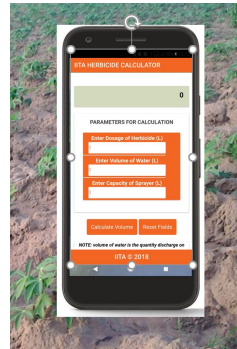# Herbicides Calculator

Reduce pesticide and herbicide losses with IITA's herbicide calculator

The IITA Herbicide Calculator is a digital tool that helps farmers figure out the right amount for backpack sprayers. This tool was developed using Java language, the Ionic framework, and Android Studio, ensuring its robustness and usability.

This technology is **TAAT1 validated**.

7·7

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

30,000 USD
Cover training, android phones, data

💡 **IP**

Open source / open access

Problem
- The widespread misuse of pesticides (including herbicides) due to poor calibration of spray tanks.
- Loss of inputs (pesticides or herbicides) during applications.
- Residue of chemical products in crops due to overdosing of pesticides or herbicides.

Solution
- The"IITA Herbicides Calculator" technology ensures the precise application of pesticides, mitigating issues related to over or under-dosing.
- Its promotes the effectiveness of herbicides, facilitating their optimal application.

Key points to design your business plan

To use this technology,

- Consider the cost of the tool, including training, android phone, and data expenses.
- Estimate profit.

Gender assessment 👍 4

Climate impact 👍 6

International Institute of Tropical Agriculture (IITA)
Godwin Atser

Technology from

ProPAS

Commodities

Maize, Rice, Sorghum/Millet, Cowpea, Soybean, Cassava, + 1 more
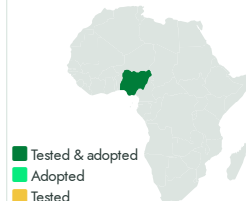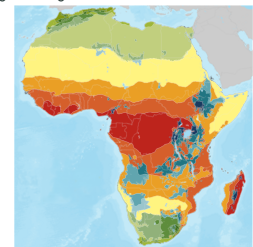
Sustainable Development Goals

Categories

Production, Digital applications, Pest control

Tested/adopted in

- Tested & adopted
- Adopted
- Tested

Where it can be used

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

Target groups

Farmers