Six Steps to Cassava Weed Management and Best Planting Practices Decision Support Tool

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Summary

The Six Steps to Cassava Weed Management and Best Planting Practices Decision Support Tool is an amalgamation of two toolkits (1) the “Six Steps to Cassava Weed Management” toolkit; an outcome of the Cassava Weed Management Project, and (2) ‘Best Planting Practice” of the African Cassava Agronomy Initiative project. The Six Steps to Cassava Weed Management and Best Planting Practices DST is a set of robust steps that guides cassava growers to make informed choices from site selection to weed control to actual practices on the farm. This DST is coupled with a herbicide calculator that enables farmers and Spray Service Provides to calibrate their sprayers to apply herbicides safely and effectively. When appropriately implemented, root yield increases ranging from 15 to >50% over yields from farmers usual practice can be expected.

Technical Description

The DST consist of the following six steps: • Step 1: Site Selection. This step guides farmers to select suitable sites for cassava production. • Step 2: Land Clearing - Slashing. This step guides farmers on whether to slash their farm or not and at what growth stage of the vegetation. • Step 3: Land Clearing – Herbicide Application. This step guides on pre-plant land preparation herbicide. • Step 4: Ploughing and Ridging. Because tillage operation costs money, this step guides cassava growers to make an informed decision on whether to till their field or not. • Step 5: Planting and Pre-emergence Weed Control. This step recommends planting procedures to growers and the application of pre-emergence herbicide. • Step 6: Post-emergence Weed Control. This guides growers on when and how to apply post-emergence herbicides.

Uses

(1) Best planting methods (2) Weed control in cassava (3) Root yield increase

Composition

Not applicable

Means of application

Farmer training and Extension Agent engagement

Agroecologies	Humid forest, Moist savanna.
Regions	Africa.
Developed in Countries	Nigeria.
Available in	Nigeria, Tanzania.
Solution Forms	Management, Digital Application.
Solution Applications	Weed control.
Agricultural Commodities	Maize, Cassava.
Target Beneficiaries	All farmers.

Commercialization

Commercialization Category

Management technology with limited commercial potential

Startup Requirements

This solution is link to AKILIMO

Production Costs

This solution is link to AKILIMO

Customer Segmentation

Target stakeholders are cassava farmers, Extension Agents, Agro-dealers . Stakeholders can be reached through the Government Extension Agents, Faith based organisations and NGOs, Radio and Television programs. Stakeholders can also be reached through different digital extension platforms such as the '321' interaction voice service of Viamo etc.

Potential Profitability

This solution is link to AKILIMO

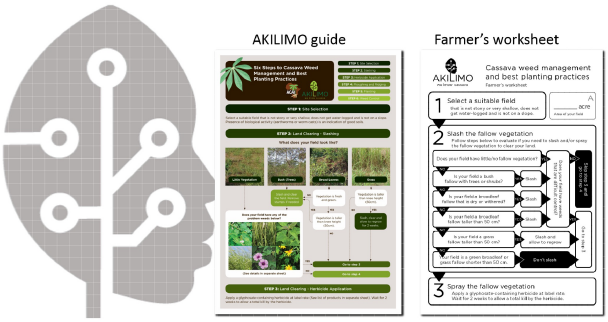
Licensing Requirements

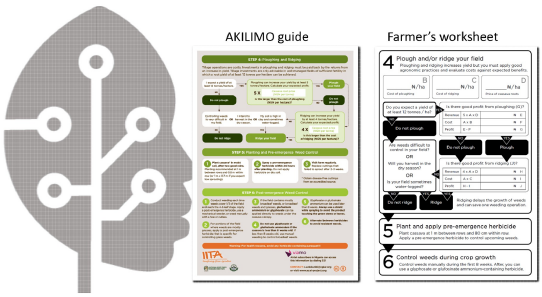
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Innovation as Public Good

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Solution Images





Institutions

IITA
Transforming African Agriculture

Accompanying Solutions

The IITA herbicide calculator is vital for safe use and handle of herbicides