

The Push Pull Farming System

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The Push Pull Farming System

A prominent example is push-pull developed in sub-Saharan Africa using a combination of companion plants delivering semiochemicals, as plant secondary metabolites, for smallholder farming cereal...

(PDF) Push-pull farming systems - ResearchGate

the push-pull system can improve food security and farm income in an environmentally friendly way, making it an ideal ingredient in the long-term struggle to reduce hunger and poverty in Africa. This publication describes the develop-ment of the push-pull technology and its dissem-ination to farmers in eastern Africa. We illustrate

The 'Push-Pull' Farming System

Push-pull technology is a strategy for controlling agricultural pests by using repellent "push" plants and trap "pull" plants. For example, cereal crops like maize or sorghum are often infested by stem borers. Grasses planted around the perimeter of the crop attract and trap the pests, whereas other plants, like Desmodium, planted between the rows of maize, repel the pests and control the parasitic plant Striga. Push-pull technology was developed at the International Centre of Insect ...

Push-pull agricultural pest management - Wikipedia

2 The Push-Pull Farming System Besides being nutritious for dairy cows, it repels insect pests of maize and substantially reduces damage from striga, a destructive parasitic weed. In short, the push- pull system can improve food security and farm income in an environmentally friendly way, making it an ideal

The Push-Pull Farming System

Development of the push-pull farming system for these farmers employed the companion cropping tradition in establishing an entry point for the new technology. "Push" and "pull" plants were identified initially by empirical behavioural testing with lepidopteran (moth) stem borer adults.

Push-pull farming systems - ScienceDirect

Before icipe developed and introduced the push-pull farming system, farmers were not harvesting enough to feed their families because of the crops low survival rate. Farmers would also struggle to...

icipe Push Pull Farming System. This is week 2 of my 8 ...

Push-pull is a farming system intensification approach that involves attracting insect pests with trap plants (pull) such as Napier grass (Pennisetum purpureum) or Brachiaria grass, while driving them away from the main crop using a repellent intercrop (push), Desmodium spp., commonly known as desmodium, and attracting natu - ral parasitoids and predators to the eld.

PUSH-PULL FARMING SYSTEMS

farming systems. By delivering the push and pull effects. as. secondarymetabolites, forexample,(E)-4,8-dimethyl-1,3,7-. nonatriene. repelling pests and attracting beneficial insects, problems. of ...

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The Push Pull Farming System - stjohnstone.me

Push-pull farming can contribute to Kenyan economy by: -US\$ 72-73 million at 14.4% adoption rate Number of people can be lifted from poverty with push pull farming -75,076-76,504 at 14.4% adoption rate Source: Kassie et al. (2017) Land use Policy 0 50 100 150 200 250 10% 25% 30% 40% n) Adoption rate Open economy Closed economy 0 50 100 150 ...

The push-pull farming system in Kenya and Ethiopia ...

This study examines the farm-level economic benefits and aggregate welfare impacts of adopting push-pull technology (PPT)—an innovative, integrated pest and soil-fertility management strategy—with a set of household- and plot-level data collected in western Kenya.

Push-pull farming system in Kenya: Implications for ...

Push-Pull Farming System Controls Fall Armyworm: Lessons from Africa

Push-Pull Farming System Controls Fall Armyworm: Lessons ...

Push-pull is a farming system intensification approach that involves attracting insect pests with trap plants (pull) such as Napier grass (Pennisetum purpureum) or Brachiaria grass, while driving them away from the main crop using a repellent intercrop (push), Desmodium spp., commonly known as desmodium, and attracting natural parasitoids and predators to the field.

Push-pull farming system controls fall armyworm: lessons ...

A prominent example is push-pull developed in sub-Saharan Africa using a combination of companion plants delivering semiochemicals, as plant secondary metabolites, for smallholder farming cereal production, initially against lepidopterous stem borers. Opportunities are being developed for other regions and farming ecosystems.

Push-pull Farming Systems | ECHOcommunity.org

'Push-pull' is the basis of an integrated crop/livestock production system which does not require high levels of external inputs. It harnesses complex chemical interactionsthat destroy stem borer larvae and inhibit the growth of Striga weed.

MAIZE/LIVESTOCK 'Push-pull' fights pests,

The International Centre of Insect Physiology and Ecology (icipe) said that the "push-pull" crop system also promotes soil fertility and hinders the striga weed from attaching roots of cereal crops.

'Push-pull' crop system to curb fall armyworms - The East ...

Both push and pull systems have pros and cons, so a push/pull system that uses different approaches for different parts of your business may be helpful, especially when your business is switching from one method to another. The push/pull system may look different for different companies.

Inventory Management: Push and Pull Systems

Push-pull is an appropriate technology for poor farmers in East Africa because it is based on locally available renewable inputs and can thus be easily integrated into traditional poly-culture cropping systems. On a larger scale, principles of push-pull can be applied to low-input and organic agriculture systems worldwide.