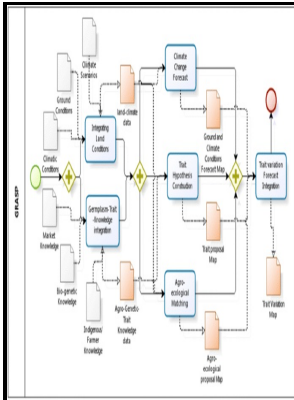


Farmers, scientists, and plant breeding - integrating knowledge and practice

CABI - Farmers' management of sorghum genetic resources in Ethiopia: a basis for participatory plant breeding? — University of East Anglia



Description: -

- Agricultural extension work

Farmers

Plant breedingFarmers, scientists, and plant breeding - integrating knowledge and practice

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Citizen science, however, places additional responsibilities with farmers because they have to manage what could be defined as small experiments, including data collection.

Farmers, Scientists and Plant Breeding: Integrating Knowledge and Practice by Cleveland, David A., Soleri, Daniela

The difference between PPB and PVS is the demarcation when client participation starts; specifically, clients are engaged from the first stage of breeding pipeline in PPB, while in PVS farmers are involved in the testing of lines developed by plant breeders. A safety margin is the factor that is added to account for uncertainties.

The Basics of Plant Breeding

If there are problems during the growing season, the farmer can work to mitigate them so those problems do not affect yield at harvest time. If the outcome cannot demonstrate the necessary safety of the compound a higher Tier study needs to be conducted. Results showed that varieties with superior traits for tolerance to climate-induced stress could be identified with high effectiveness linking the farmer-generated data to climate data.

Extending Darwin's analogy: Bridging differences in concepts of selection between farmers, biologists, and plant breeders

In participatory research, clients mainly farmers, but other stakeholders too are intricately included in all major decisions at all stages of a plant breeding program.

Plant Breeding

Key factors considered include the disease or pests affected by the product, the maximum allowed number of applications and their timing, the maximum product application rates per treatment, the amount of water to be used with the product, the PHI pre-harvest interval, or time between final application and harvest , and protective measures to be taken while using the product e. Dudley, in , 1997 A PLANT BREEDING Plant breeding started with primitive people saving seed to plant in succeeding years.

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