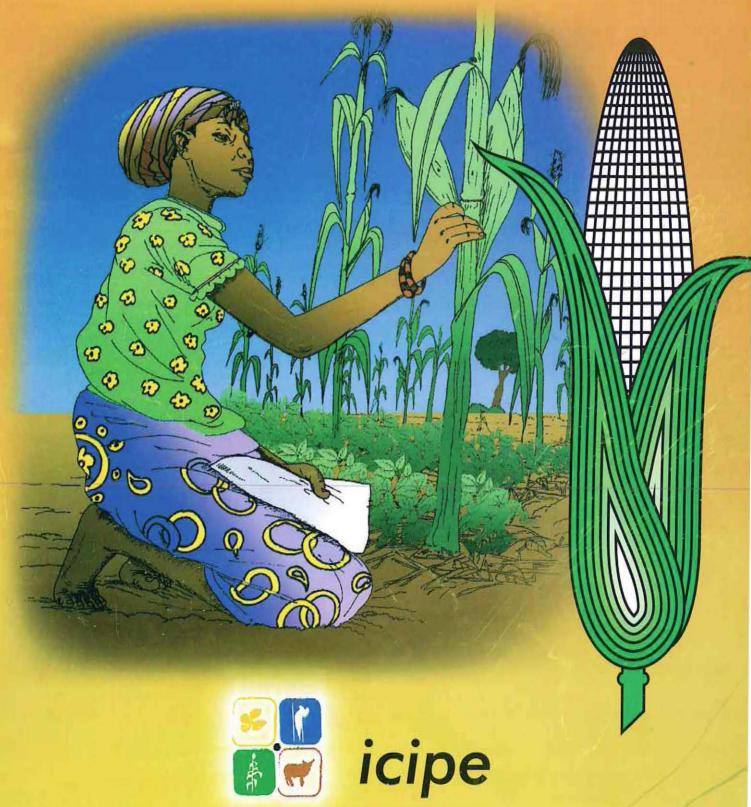
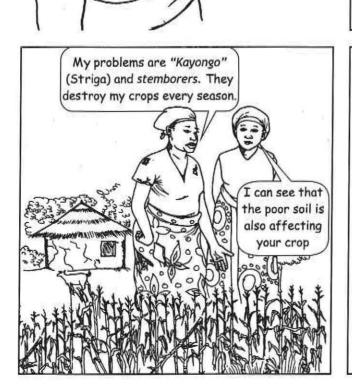
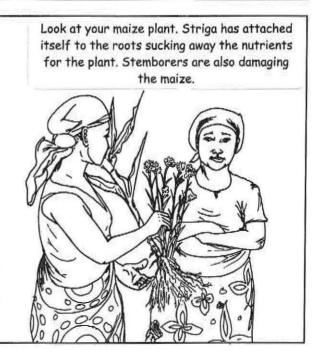
Push-pull Improving Livelihoods



African Insect Science for Food and Health

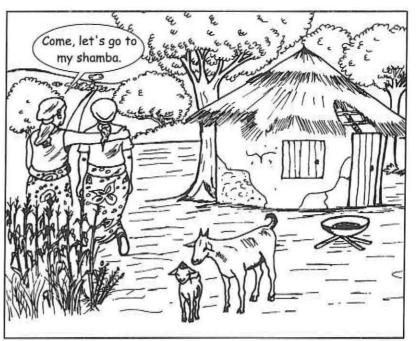


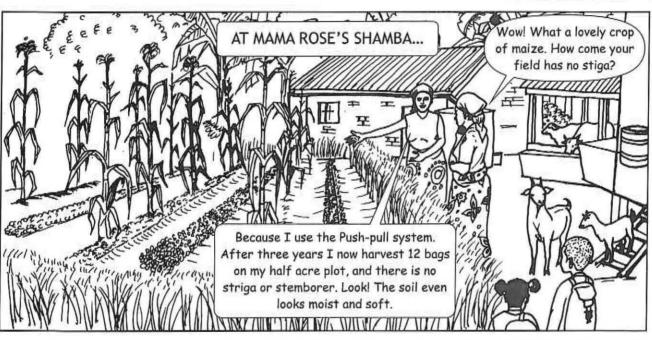


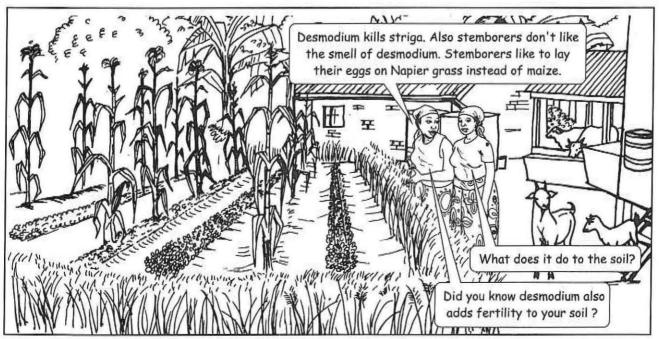


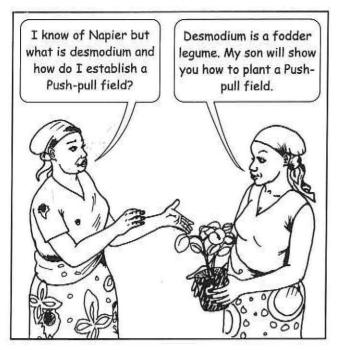
Striga and stemborers may destroy up to 100% of your maize crop. Haven't you heard of the Push-pull farming system?

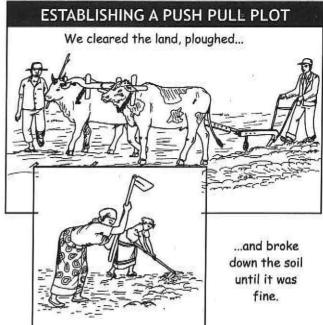




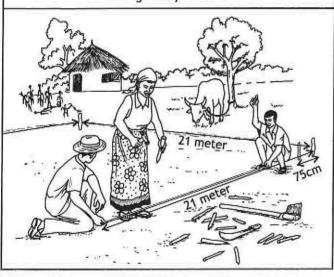




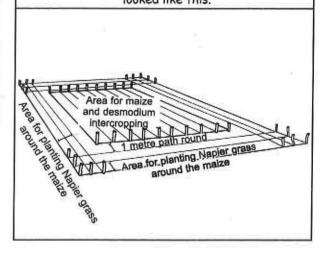




Using pegs and ropes, we measured the first plot of 21m × 21m. A push-pull plot can be as small as 10m × 10m, or as big as any shamba.



We used a string to measure and ensured that we had a square. We put pegs at opposite sides of the square at intervals of 75cm each. When we finished marking the plot with pegs and strings it looked like this.

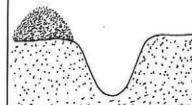


TO PLANT NAPIER GRASS



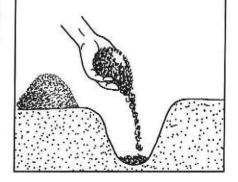
Bana is the best variety of Napier grass for use in Pushpull. Follow these steps when planting Napier grass in your Push-pull plot.

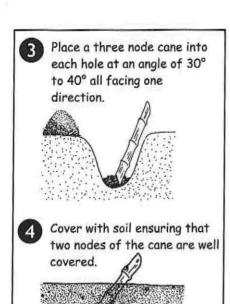
Did holes at each peg on border of the marked plot.

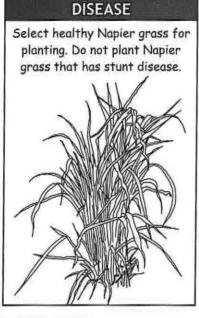


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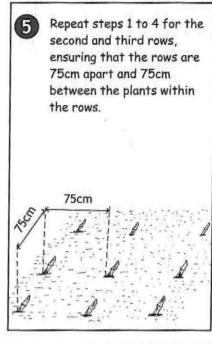
Apply one teaspoonful of triple super phosphate fertilizer or 2 hand-fulls of well decomposed farmyard manure in each hole.

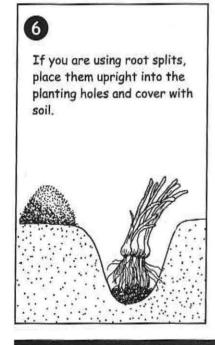


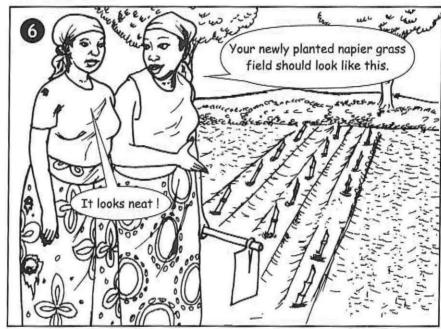


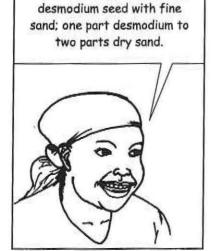


AVOIDING NAPIER GRASS

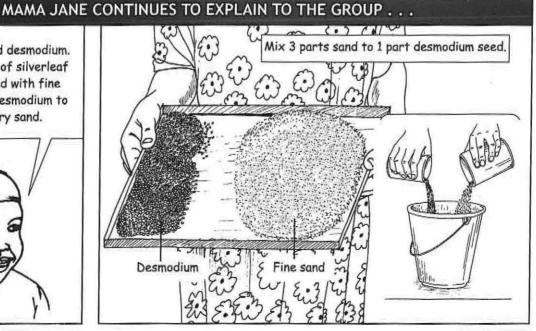








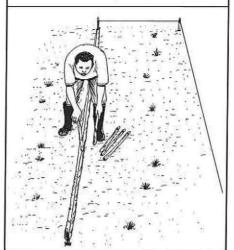
Next, we planted desmodium. We mixed 300g of silverleaf



We drilled desmodium in the furrows at 75cm row-to-row distance.

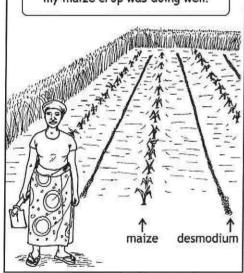


Drill fertilizer or farmyard manure along furrows, mix with soil using a stick, without covering or disturbing the furrow.



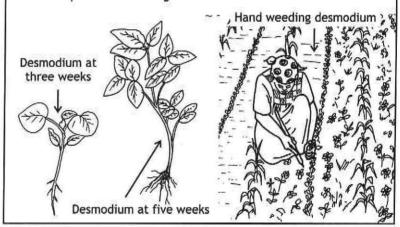


After one week I noticed that my maize crop was doing well.

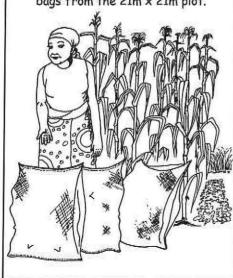


WEEDING AND CROP MANAGEMENT

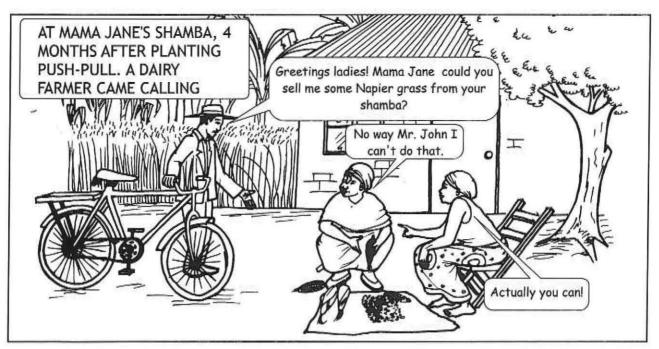
Early weeding is very important for the successful establishment of a Push-pull plot. We carried out the first weeding when maize was 3 weeks old, and second weeding when maize was 5 weeks old. It is important to distinguish between desmodium and weeds.

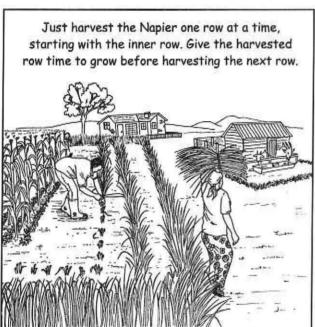


My first maize harvest was 3 bags from the 21m × 21m plot.

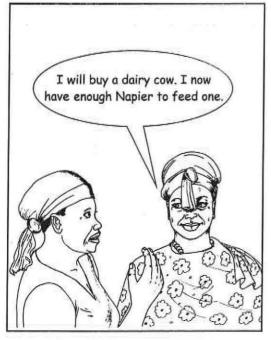


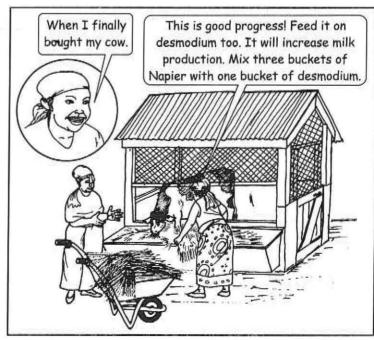
For the past three years I have harvested 12 bags each season from my half acre plot.

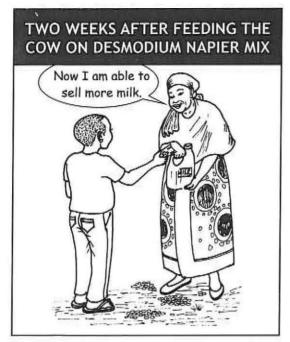




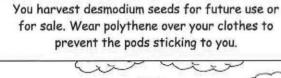




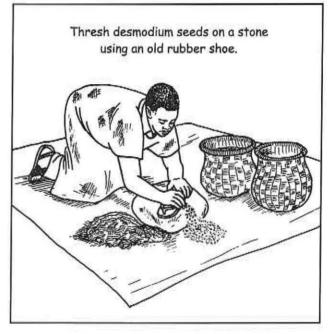




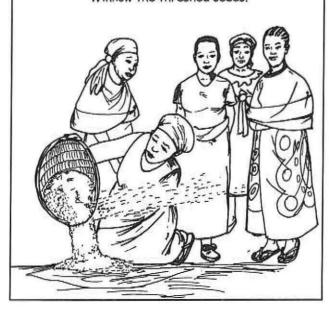








Winnow the threshed seeds.

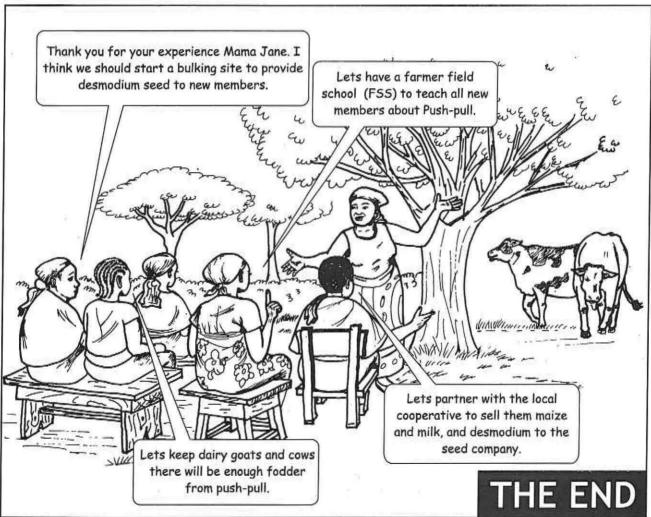


Harvest desmodium after harvesting maize from the field. During the first season do not harvest desmodium until it has established well.









icipe's mission is to help alleviate poverty, ensure food security and improve the overall health status of peoples of the tropics by developing and extending management tools and strategies for harmful and useful arthropods, while preserving the natural resource base through research and capacity building.

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