



## The effect of Push-pull management and fertilization in central Kenya

By Njeru, Peterson / Hjältén, Joakim

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | The effect of Push-pull management and different fertilization strategies on maize crop yield in central Kenya | The high population pressure in central Kenya has led to continuous cultivation with minimal application of nutrient, resulting in nutrient depletion. A study was conducted to determine the effect of Push-pull (intercropping maize with Desmodium and Napier grass) strategy management and nitrogen application on maize grain yield and soil fertility on smallholder farmer s fields in three districts of central Kenya highlands. The experiment design was a split plot design with two factors ( Push-pull vs monoculture and manure (5 t/ha) only vs manure and fertilizer (40 kg/ha) replicated four times. I found an increase in maize yield in Push-pull fields compared with monocultures with only manure added (5t/ha) and the yield increased even more with modest application of fertilizer (40KgN/ha) combined with manure (5t/ha). There was strong significant difference (p0.001) on maize grain yield between Push-pull (5.52t/ha) and monoculture (1.93t/ha) cropping systems in the three districts of central Kenya. From management perspective, the different fertilization regimes had strongest positive effect on maize yield in well managed Push-pull cropping systems. | Format: Paperback | Language/Sprache: english | 72...



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