Experimental design

• Tailor-made Reduced Factorial with four fertiliser levels:
  ○ 0%, 50%, 100% and 150% of calculated offtake
• The design fits onto one hectare and is replicated twice.
• There is space for two secondary nutrient omission treatments with four replicates each.

Nutrient offtake & loss

• We made an nutrient requirement model in Excel using nutrient data and allometric relations from literature and from own research
• We checked the model outcomes with other models and with recommendations from Yara and adapted it.
• Extreme soils (very rich or poor) are not yet taken into account.

Fertiliser rates

• Will be updated annually based on predicted yields.
• Can be adapted to specific environments (if necessary).
• Numbers below were generated in first calculations.

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References

• Information shared by Yara on nutrient requirements
• Van Vliet and Giller, 2017; Calvo-Romero, 2018; Fisher, 2019

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