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Sub-project 1: Biology and Ecology

- Objective: insights in how environmental conditions determine the presence and success of parasitic weeds
- Methods: greenhouse and field observations
- Key preliminary findings:
 - O *Striga* and *Rhamphicarpa* have clearly distinct ecological niches
 - O In contrast with the obligate parasite *Striga*, the facultative *Rhamphicarpa* does not require host stimulants for germination
 - O Attachment to host results in considerable growth improvement and increased seed production of *Rhamphicarpa*



Sub-project 2: Agronomy Objective: develop locally adaptable Farmers' preferred ■2012 farmers sowing dates and socially and economically □2013 acceptable management strategies for ^{rield} + p prevention and control of parasitic Number of 1 'infection → weeds in rain-fed rice Methods: Farmer surveys, on-farm field and demonstration trials . Key preliminary findings: Sowing time \rightarrow O Rice husks may be a suitable alternative soil fertility amendment in parasitic weed infested rice fields O Successful reproduction of parasitic weeds relies on optimal synchronization with the host plant: timing as a potential control strategy O Farmers are risk aversive: compromise between rice yield and weed control ³thAfrica Rice Congres





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