

Title	Adapting soybean varieties to soil fertility variability for increased productivity in smallholder systems of Uganda
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Co-researchers	To be identified
Purpose	To contribute to sustainable soybean production and incomes of smallholders through targeting varieties to soil fertility niches in two agroecological zones of Uganda.
Project Summary	Biophysical conditions; climate and soil types underpin the suitability for growing of different crops at larger scales such as the agroecological regions while at the lower scales such as farms, crop production is production governed by soil fertility status and management. These factors together with and socio-economic environment (e.g. culture, markets, and infrastructure) create niches for production of a given crop. This research aims at identifying niches for sustainable production of soyabean and will test the hypothesis that suitability of different soyabean varieties differs between and within agroecological zones. The research will be conducted in the Southern and Eastern Lake Kyoga basin and Northern tall grasslands agroecological zones and will involve active farmer collaboration. Participatory variety selection will complement agronomic experimentation to identify best fits amongst soyabean varieties to soil fertility niches in each agroecological zone. The appropriate accompanying soil fertility management practices for high productivity of the soyabean varieties in the soil fertility niches will also be developed. At the end of this research project, the participating farming community capacity to produce soyabean will be strengthened; at least one type of dissemination material developed, and linkages between farmers, researchers and private sector strengthened and two MSc students trained.
Country and Specific Location(s)	Pallisa district representing the Southern and East Lake Kyoga Basin Agroecological zone and Lira district representing the Northern Moist Farmlands Agroecological zone (AEZs).
Participating Institutions	farmers, private sector (UNADA; feed manufacturers, rice dealers (millers), public sector (NAADS), and NGOs (AT Uganda, Africa 2000 network Uganda)
Start Date	September 2010
End date	September 2012
Amount of Funding	USD 60000