



Integrated Soil Fertility Management trial for maize production in Embu, Kenya.

SUSTAINABLE AGROECOSYSTEMS

Elucidating and improving of sustainable agroecosystems across the world.



Research Areas

- The complex interactions between soil properties, plant traits and diversity, soil biota diversity and functioning, and biogeochemical cycling in terrestrial ecosystems, especially agroecosystems;
- Effects of land use change and management on ecosystem functioning and services;
- Socio-ecological analyses to holistically assess the sustainability and resilience of agriculture and food value chains.

Regions

Burkina Faso, Cameroon, DR Congo, Ethiopia, Hungary, Germany, Ghana, Ivory Coast, Kenya, Malawi, Mozambique, Nigeria, Rwanda, South Africa, Switzerland, Tanzania, and Uganda.

Partners

International Institute of Tropical Agriculture (IITA) in Nigeria, Kenya, DR Congo and Rwanda; Catholic University of Leuven; Wageningen University; University of Eldoret; and Arba Minch University.

Contact

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Contribution to the WFSC

Illuminating the feedbacks between ecosystem management options (e.g., tillage, cover cropping, green manuring, agroforestry, and intercropping), global change (e.g., elevated CO₂ and climate change), and biogeochemical cycling (carbon, nitrogen, phosphorus, and micronutrients) in agricultural, grassland and forest ecosystems. Conducting experimental work from the micro- to landscape scale and subsequently integrating it with modeling to predict ecosystem functioning at the field, landscape, regional and global scale.



Prof. Johan Six

