

Seed production and quality assurance of forage seeds in Uganda

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Name of training event	Seed production and quality assurance of forage seeds in Uganda
Aims of the training	Capacity building on forage production and conservation at farm level, seed production, seed quality assurance and marketing for forage seed
Dates	18–22 September 2022
Venue	Makerere University Agricultural Research Institute, Kabanyoro (MUARIK)
Instructors and their affiliation (including lead CGIAR centre)	<ul style="list-style-type: none"> • Joseph Bazaale (independent consultant) • Emmanuel Amponsah (Makerere University Regional Centre of Excellence in Crop Improvement, MaRCCI) • Dramadri Isaac (MaRCCI) • Sharon M Tusiime (MaRCCI) • Ozimati Alfred (MaRCCI) • Ony Obua (Makerere University) • Geoffrey Otim (Integrated Seed and Sector Development Uganda) • Richard Edema (MaRCCI) • Ronnie Ahumuza (International Livestock Research Institute (ILRI)) • Ben Lukuyu (ILRI) <p>Lead CGIAR centre: ILRI</p>
Participant information, including numbers by gender and age (considering youth as 35 years or less and non-youth as 35 years or more). Can include a summary of participants type (e.g. livestock keepers and NARS) if relevant. Do not include names or other identifying information.	10 males (3 of them youth) and 4 females (1 of them a youth). The participants were seed business owners and representatives of seed business owners.
Were some participants from a partner organization, or from a government?	Two of the participants were from NARO Holdings Ltd, which is the business arm of the National Agricultural Research Organisation (NARO).
Delivery method (virtual/ in person/ hybrid)	In person
Funder—any other support besides SAPLING	Dutch Research Council (NWO)
Course summary or agenda	<ul style="list-style-type: none"> • Overview of Uganda’s seed industry, with a focus on forage seed • Highlights of breeding processes for forage crops • Agronomy practices during production of seed for forage crops

	<ul style="list-style-type: none"> • Pest, disease and weed management of forage crops • Data management in the field and lab • Field tour of seed production activities within the National Livestock Resources Research Institute • Data management and interpretation • Seed conditioning and quality testing • Seed tracking and tracing system (STTS) by the Ministry of Agriculture, Animal Industry and Fisheries • Tour of MaRCCI facilities • Seed analytical purity analysis (theory) • Vigour testing (tetrazolium test) theory • Seed analytical purity analysis (laboratory) • Vigour testing (tetrazolium test) 1 • Vigour testing (tetrazolium test) 2 • Feedback and way forward (observations from participants)
Links to training material, if available	https://cgspace.cgiar.org/handle/10568/109785
Any other remarks	The training was conducted successfully and we intend to organize more under the Sustainable Animal Productivity for Livelihoods, Nutrition and Gender inclusion (SAPLING) Initiative.
Photos (if permission granted)	
Contact person(s) for more information	Ronnie Ahumuza: R.Ahumuza@cgiar.org Ben Lukuyu: B.Lukuyu@cgiar.org
Linked initiative	The Feed and Forage Seed Business Models project in Kenya and Uganda
Acknowledgements	<ul style="list-style-type: none"> • Dutch Research Council (NWO) • KIT Royal Tropical Institute, Netherlands

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CGIAR's Sustainable Animal Productivity for Livelihoods, Nutrition and Gender inclusion (SAPLING) is working in seven countries focusing on livestock value chains to package and scale out tried-and-tested, as well as new, innovations in



livestock health, genetics, feed and market systems. SAPLING aims to demonstrate that improvements in livestock productivity can offer a triple win: generating improved livelihoods and nutritional outcomes; contributing to women's empowerment; and, reducing impacts on climate and the environment. Its seven focus countries are Ethiopia, Kenya, Mali, Nepal, Tanzania, Uganda and Vietnam.