

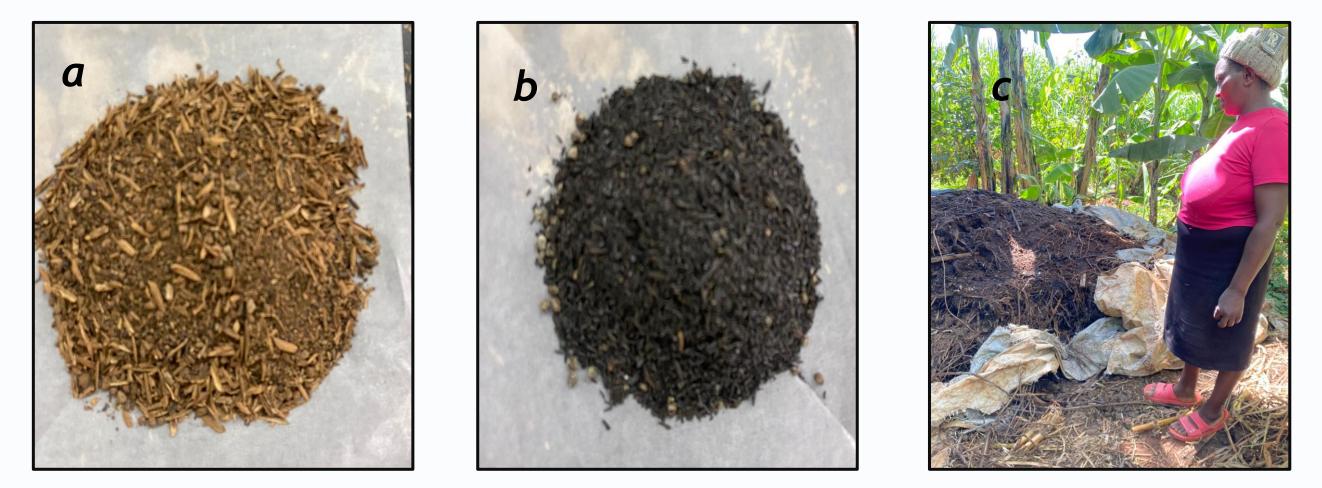


# Assessing farmers' attitudes toward organic fertilizers in Kiambu and Kirinyaga Counties, Kenya

<u>Mensah T. Grace<sup>1</sup>, Mutua Kinyili<sup>2</sup>, Mwajita M. Rashid<sup>1</sup>, Ngamau Catherine<sup>1</sup>, Aggrey B. Nyende<sup>1</sup>, Götz</u> Uckert<sup>3</sup>, Stefan Sieber<sup>3</sup>

Background

• The overutilization of chemical fertilizers by commercial farmers has resulted in the deterioration of soils, rendering



them unproductive (Ju et al., 2007)

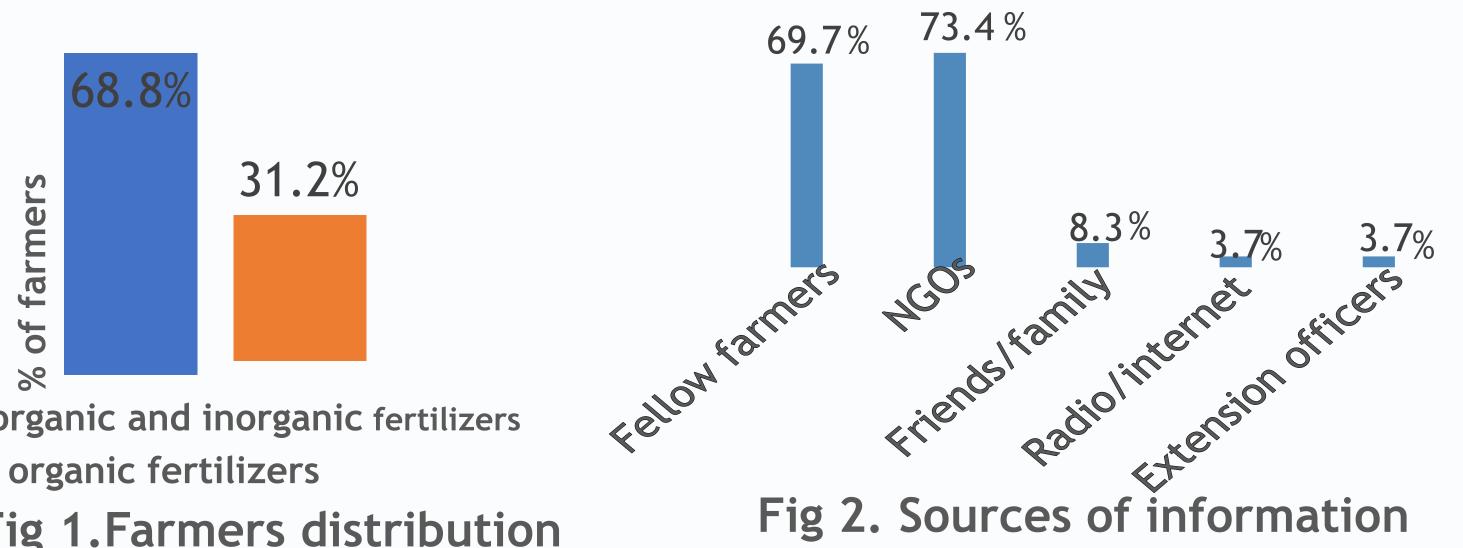
- The use of organic fertilizer by smallholder farmers in Kenya is limited due to a lack of standards (NASMP 2019)
- Key organisations in Kenya are manufacturing and marketing organic fertilisers to smallholder farmers in order to promote their use
- However, the attitudes of farmers on these are not known

#### Research aim

- The objective of this study was to evaluate the attitudes of • smallholder farmers (consumers) on the using of locally-produced commercial organic fertilizers in two sub-counties of Kenya.
- Policymakers may use this information to create confidence and support for organic fertilizer policies and sustainable practices among smallholder farmers

Image a: Bokashi (made from rice husk, manure, molasses, charcoal, rice ban, yeast, rock dust) b: safi sarvi (rock dust, rice husk, black soldier fly frass), and c: compost (manure, straw, topsoil, ash, plant materials)

### Results: Farmers attitude



## Methods

- Face-to-face interviews with 109 smallholder farmers using a structured questionnaire in two sub-counties (Githunguri and Mwea) in September and October 2023
- Farmers' attitudes were captured using 14 statements on a 5point Likert scale from 1-5 (strongly disagree - strongly agree)
- Descriptive statistics(SPSS23.0) to identify attitudes







organic and inorganic fertilizers

organic fertilizers

Fig 1.Farmers distribution

#### Table1. shows how farmers rate the attitudinal statements

Attitudinal statements	SD	D	N	Α	SA
I receive personal satisfaction from using organic fertilizer on my farm	0.9	0.9	1.8	<mark>22.9</mark>	<mark>73.4</mark>
I get better yield when I use Organic fertilizer on my farm	0.0	0.9	0.0	<mark>16.5</mark>	<mark>82.6</mark>
Organic fertilizer improves soil fertility	1.8	0.0	0.9	<mark>20.2</mark>	<mark>77.1</mark>

Sd=strongly disagreed, D=disagreed, N= nuetral, A= agreed, SA= strongly



Conc	lusion
CONC	usion

- NGOs are the primary sources of information on organic fertilizer followed by fellow farmers
- Farmers in the study areas showed positive attitudes toward locally-made organic fertilizers lacksquare
- Farmers need support from the government to upscale their organic fertilizer uptake

Poster ID 230 Session Plants and Crops TT2024

- <sup>1</sup> Department of Horticulture and Food Security, Jomo Kenyatta University of Agriculture and Technology, Nairobi, Kenya <sup>2</sup> Department of Agriculture and Resource Economics, Jomo Kenyatta University of Agriculture and Technology, P.O Box 6200, Nairobi, Kenya
- <sup>3</sup> Leibniz Centre for Agricultural Landscape Research (ZALF), Research Area "Land Use and Governance", Eberswalder Street 84, 15374 Müncheberg, Germany