

STAFF PROFILE: Dr. Amos Wanjala Wawire

BSc. Agricultural Education and Extension, and
MSc. Agricultural information and Communication
Management from the University of Nairobi, Kenya;
PhD. Environmental Sciences from the Hungarian
University of Agriculture and Life Sciences, Hungary.

awawire@karu.ac.ke / amoswawire2021@gmail.com



1. **Designation:** Lecturer
2. **Employment details:** School of Agriculture and Biotechnology, Department of Agricultural Sciences.
3. **Contact information**
Email address: awawire@karu.ac.ke . amoswawire2021@gmail.com
Research Links: <https://orcid.org/0000-0001-9556-7541>
Google Scholar: https://scholar.google.com/citations?user=o_WvPpgAAAAJ&hl=hu
ResearchGate: <https://www.researchgate.net/profile/Amos-Wawire>

4. PROFILE

Dr. Amos Wanjala Wawire (PhD) is a lecturer in the department of Agricultural Sciences, School of Agriculture and Biotechnology, Karatina university, since 2015. Prior to joining Karatina university (KarU), Dr. Wawire worked at Bioinnovate Program, at the International Livestock Research Institute (ILRI), as a graduate fellow communications assistant; Pamoja East Africa as a Research communication intern; and teaching assistant at the University of Nairobi.

Dr. Wawire holds a PhD in Environmental Sciences (with bias in Soil Science) from the Hungarian University of Agriculture and Life Sciences (MATE), formerly, Szent Istvan University (SZIU)-Hungary; a Master of Science in Agricultural Information Communication Management, and Bachelor of Science Agricultural Education and Extension, from the University of Nairobi-Kenya.

Dr. Wawire's research interests include sustainable agriculture; soil fertility and management, agricultural communication and knowledge transfer, agricultural innovations, rural development, project evaluation and food security. He has done research on characterization of soils of upper eastern Kenya and evaluation of the influence of farm management practices on soil quality in one of Kenya's agricultural-rich regions. Dr. Wawire has also investigated farmers' knowledge and adoption of information and communication technologies (ICT) in accessing agricultural information. He has also participated in developing an information and communication management (ICM) strategy manual (a toolkit for agricultural and rural development organizations), with the Technical Centre for Agricultural and Rural Cooperation (CTA). Dr. Wawire is a peer reviewer for renown journals and an external examiner for Postgraduate (PhD and Master's theses). He is passionate about improving rural livelihoods, and has been immensely

involved in farmers' outreach activities, aimed at enhancing agricultural productivity among smallholder farmers.

5. **Area/Field of specialization:** Lecturer, Agricultural Extension and communication (Agro-informatics), and Environmental Sciences
6. **Research interests:** Sustainable agriculture; soil fertility and management, agricultural communication and knowledge transfer, agricultural innovations and technologies, rural development, project evaluation and food security.

7. Publications

- a) Wawire, A., Csorba, Á., Zein, M., Rotich, B., Phenson, J., Szegi, T., Tormáné Kovács, E., & Michéli, E. (2023). Farm Household Typology Based on Soil Quality and Influenced by Socio-Economic Characteristics and Fertility Management Practices in Eastern Kenya. *Agronomy*, 13(4). <https://doi.org/10.3390/agronomy13041101>
- b) **Wawire, A. W.**, Csorba, A., Kovács, E., Mairura, F. S., Toth, J. A., & Michéli, E. (2021). Comparing farmers' soil fertility knowledge systems and scientific assessment in Upper Eastern Kenya. *Geoderma*, 396. <https://doi.org/10.1016/j.geoderma.2021.115090>
- c) **Wawire, A. W.**, Csorba, A., Toth, J., A., Michéli, E., Szalai, M., Mutuma, E., & Kovács, E. (2021). Soil fertility management among smallholder farmers in Mount Kenya East Region. *Heliyon*, 7, 1–11. <https://doi.org/https://doi.org/10.1016/j.heliyon.2021.e06488>
- d) **Wawire, A. W.**, Csorba, A., Toth, J. A., & Michéli, E. (2020). Integration of manure and mineral fertilizers among smallholder farmers in Kenya: a pathway to sustainable soil fertility management and agricultural intensification. *International Journal of Agricultural Extension and Rural Development Studies*, 7(2), 1–20. <https://www.eajournals.org/wp-content/uploads/Integration-of-manure-and-mineral-fertilizers-among-smallholder-farmers-in-Kenya.pdf>
- e) **Wawire, A.**, Wangia, S. & Okello, J. (2017). Determinants of Use of Kenya Agricultural Commodity Exchange Information Communication Technologies: the case of Smallholder Farmers in Bungoma County, Kenya (published in the *Journal of Agricultural Science*). Available at <http://www.ccsenet.org/journal/index.php/jas/article/view/52141>

Abstracts and conference papers

- f. **Wawire, A. W.**, Csorba, A., & Michéli, E. (2020). Scientific Evaluation of farmer soil fertility knowledge in Meru and Tharaka Counties in Kenya. Geneva Eurosoil 2021 August 23- 27, 2021). <https://eurosoil2020.com>
- g. **Wawire, A. W.**, Csorba, A., & Kovács, E. (2019). Assessing soil fertility challenges and accessibility to inorganic fertilizer and manure resources by smallholder farmers in the Central Highlands of Kenya. In Zoltán (Ed.), the 19th Alps-Adria Scientific Workshop, 26th April – 1st May 2021, Wisla -Poland (p. 47). http://www.alpsadria.hu/www.alpsadria.hu/19thAASW/19thAASW_Abstract_book.pdf

- h. Mutuma, E., Csorba, Á., **Wawire, A. W.**, Dobos, E., & Michéli, E. (2017). Classification problems of Mount Kenya soils. European Geosciences Union (EGU) General Assembly 2017, Vienna, Austria, 23–28 April 2017. <https://meetingorganizer.copernicus.org/EGU2017/EGU2017-16230.pdf>
- i. Wawire, A. W., Michéli, E., & Csorba, A. (2018b). The Centrality of Soil Information in the Realization of Sustainable Food Security in Kenya. In B. Horváth, A. Khademi-Vidra, & I. M. Bakos (Eds.), 3rd International Young Researcher Scientific Conference on “Sustainable Regional Development- Challenges of space & Society in the 21st Century”, Godollo, Hungary, April 26, 2018 (pp. 76–82). Szent Istvan University. http://rtdi.gtk.szie.hu/sites/default/files/files/2018_SRDCConference- Proceedings April-26 könyv.pdf
- j. Wawire, A. W., Michéli, E., & Csorba, A. (2018a). Sustainable Water Resource Management: Prerequisite for Realizing Kenya’s Vision 2030. In G. habil Jakab, A. Tóth, & E. Csengeri (Eds.), International Conference on Water Sciences, Szent Istvan University, Szarvas, Hungary, March 22, 2018 (pp. 224–229). Szent Istvan University. http://intelszak.szarvas.szie.hu/sites/default/files/uploads/444_compressed.pdf

DISSERTATIONS

1. Wawire, A. Analysis of Soil Quality, Farmers’ Knowledge and Management Practices in Mount Kenya East Region (PhD Dissertation).
2. **Wawire, A.** (2013). Awareness and Use of Kenya Agricultural Commodity Exchange Services (KACE) Information Services by Smallholder Farmers of Bungoma County, Kenya (Master’s Dissertation) available at <http://erepository.uonbi.ac.ke:8080/handle/11295/61656?show=ful>