



Hellen Wangechi Mwaura-Kamiri (Ph.D)  
**Senior Lecturer - Soil Science**

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**Research Interests**

Soil geography, Soil biogeochemistry, Soil ecology, Food security, Environment, Urban agriculture,

**Biography**

Hellen Kamiri is a soil scientist recognised for her investigations on soil attributes as affected by land use changes in wetlands and arid and semi-arid areas.

Hellen was born and grew up in Nyeri county Kenya. She graduate from Moi University in 1998 with a degree in Forestry Science and did post graduate studies in Soil Sciences at Moi University Kenya. She graduated from University of Bonn, Germany in 2011 with a Ph.D. in Agricultural Sciences. After postdoctoral work at the University of Bonn, she joined the School of Agriculture and Biotechnology at Karatina University as a lecturer of soil and environmental sciences. Her teaching includes research methods, agricultural geography, rural sociology and soil science. Hellen has served as head of department and Dean of faculty and in several university academic committees. Hellens work focuses on management approaches through which soil can help resolve global issues such food security, soil water availability and coping strategies to climate change

**Selected publications**

1. Karienyee, D. K., Nduru, G. M., & Kamiri, H. W. (2021). Climate variability and adaptation among small holder banana farmers in mountain regions of Kenya. *Geography, Environment, Sustainability*, 14(1), 161-170.
2. Mutuku, D., **Kamiri, H.**, Ndufa, J., Kiama, S., & Mware, M. (2019). Influence of Vegetation Cover and Topographic Position on Water Infiltration, Organic Matter Content and Aggregate Stability of Grassland Soils in Semi-Arid Kenya. *Advances in Agricultural Science*, 7(04), 01-17.
3. Karienyee, D., Gilbert, N., & **Hellen, K.** (2019). Socioeconomic Determinants of Banana Farmers' Perception to Climate Change in Nyeri County, Kenya. *Journal of Arts and Humanities*, 8(8), 89-101. doi:<http://dx.doi.org/10.18533/journal.v8i8.1701>

4. Ashiono, F., **Kamiri, H.W.**, Kinyanjui, M (2019). Evaluation of mineral nutrition and growth of Eucalyptus saligna seedlings raised on organic – enriched nursery potting media. *Journal of Research in Forestry, Wildlife and Environment - Vol 11, No 1* (2019)
5. Sitienei, K., **Kamiri, H. W.**, Nduru, G. M., Kamau, D. M., Nyabundi, W. K., & Morogo, M. (2018). Effects of Blended Fertilizers on Yields of Mature Tea Clones Trfk 6/8 and Bbk 35 Grown in Kenyan Highlands. *Indonesian Journal of Agricultural Science*, 19(1), 17-24.
6. Sitienei, K., **Kamiri, H. W.**, Nduru, G. M., & Kamau, D. M. (2018). Nutrient Budget and Economic Assessment of Blended Fertilizer Use in Kenya Tea Industry. *Applied and Environmental Soil Science*, 2018.
7. Sitienei, K., **Kamiri, H. W.**, Nduru, G. M., & Kamau, D. M. (2018). Effects of blended fertilizers on soil chemical properties of mature tea fields in Kenya. *Advances in Agricultural Science*, 6(4), 85-98.
8. Sitienei, K., **Kamiri, H. W.**, Nduru, G. M., Kamau, D. M (2018). Effects of Blended Fertilizers on Leaf Nutrients Content of Mature Clonal Tea in Kenya. *Journal of Experimental Research*. Volume 6 (2).
9. **Kamiri, H.**, Kreye, C., & Becker, M. (2013). Assessing selected soil properties responses to wetland cultivation in floodplain wetlands of East Africa. *International Journal of AgriScience*, 3(11), 825-837.
10. **Kamiri, H.**, Kreye, C., and Becker, M (2013). Dynamics of agricultural use differentially affect soil properties and crop response in East African wetlands. *Wetlands Ecology and Management*. Vol 21, Issue 4. [Issue 6](#), pp 417-431.
11. Miguel Alvarez, Mathias Becker, Beate Böhme, Collins Handa, Matthias Josko, **Hellen W. Kamiri**, Matthias Langensiepen, Gunter Menz, Salome Misana, Neema G. Mogha, Bodo Maria Mösel, Emiliana J. Mwita, Helida A. Oyieke & Nomé Sakané. (2012). Floristic classification of the vegetation in small wetlands of Kenya and Tanzania. *In: Dengler, J., Chytrý, M., Ewald, J., Finckh, M., Jansen, F., Lopez-Gonzalez, G., Oldeland, J., Peet, R.K., Schaminée, J.H.J. (2011) [Eds.]: Vegetation databases for the 21st century. – Biodiversity & Ecology 4:*
12. Sakane, N., Alvarez, M., Becker, M., Böhme, B., Handa, C., **Kamiri, H. W.**, Langensiepen, M., Menz, G., Misana, S., Mogha, N., Mösel, B., Mwita, E., Oyieke, A.H., van Wijk, M. 2011. Classification, characterization, and use of small wetlands in East Africa. *Wetlands*. 31: 1103-1116
13. Kavoo, A., Mugendi, D.N., Muluvi, G., Vanlauwe, B., Six, J., Merckx, R., Gentile, R., **Kamiri, H.W.** (2011). Interaction between Resource Quality, Aggregate Turnover, Carbon and Nitrogen Cycling in the Central Highlands of Kenya. *In: A. Bationo et al. (eds.), Innovations as Key to the Green Revolution in Africa*, page 807 – 816.
14. **Kamiri, H.W.**, Pypers, P and Vanlauwe, B. (2011). Residual Effects of Applied Phosphorus Fertilizer on Maize Grain Yield and Phosphorus Recovery from a Long-Term Trial in Western Kenya. *In: A. Bationo et al. (eds.), Innovations as Key to the Green Revolution in Africa*, page 717 – 729. ISBN 978-90-481-2541-8.
15. Chivenge, P., Vanlauwe, B., Gentile, R., **Wangechi, H.**, Mugendi, D., van Kessel, C. and Six, J. (2009). **Organic and Mineral Input Management to Enhance Crop Productivity in Central Kenya**. *Agronomy Journal*, 101: 1266–1275.
16. Ndufa, J.K., Gathumbi, S.M., Kamiri, H.W., Giller, K.E. and Cadisch, G. (2009). Do Mixed-Species Legume Fallows Provide Long-Term Maize Yield Benefit Compared with Monoculture Legume Fallows? *Agronomy Journal*. 101:1352-1362

