

**PWANI UNIVERSITY
STAFF PROFILE FORM**



Esther Mwende Muindi

	First Names Esther Mwende	Surname Muindi
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Department	Crop sciences	
School	Agricultural and Environmental Sciences	
Designation	Assistant Lecturer	
Academic Qualifications		
<p>PhD. Soil and Water Management- Sokoine University of Agriculture- Tanzania (On-going)</p> <p>Msc. Agronomy- University of Nairobi, 2008.</p> <p>Bsc. Agriculture- University of Nairobi, 2006</p>		
Ongoing Research and research interests		
<p>Ongoing Research: Assessment of Lime - Phosphorus - Aluminium, interactions in Acid soils of the Kenya highlands. The research seeks to unveil the reason behind presence of low P in soils of most areas of the Kenya highlands even after optimal application of P- fertilizers, and the chemical reactions behind P adsorption in different soil types from different zones. It also seeks to understand why most farmers in the research areas don't apply the recommended fertilizers and lime even after dissemination of research findings. The research is funded by Alliance for Green Revolution Africa (AGRA).</p> <p>Research interests: Understanding the chemistry behind Nitrogen, Phosphorus, Sulphur and Zinc interactions in both acid and saline soils in East African soils and how the problem of P, Zinc, Sulphur and micronutrients deficiency can be solved from farmers' level to research level. Generally, I would like to work towards development of country specific, standard nutrient requirements for various crops growing in different soil types, ecological zones factoring in past, present and future environmental issues.</p>		

Publications in peer reviewed Journals

- i) **Muindi, E.M.**, Mrema J.P., Semu E., Mtakwa P.W., Gachene C.K., Njogu M.K. (2015). Phosphorus adsorption and its relation with soil properties in acid soils of western Kenya. *International Journal of plant and soil science*, 4(3):203-211.
- ii) Njogu, M., Nyankanga, R., Muthomi, J., **Muindi, E.** (2014). Studies on the effects of stinging nettle extract, phosphoric acid and conventional fungicide combinations on the management of potato late blight and tuber yield in the Highlands of Kenya. *Direct Research Journal of Agriculture and Food Science*, 2 (8) 119-127.
- iii) Njogu, M., **Muindi, E.**, Muthomi, J., Nyankanga, R., Muchiri, P. (2014). Phytophthora infestans responses to stinging nettle extract, phosphoric acid and fungicides combination, in Kenya. *Direct Research Journal of Agriculture and Food Science*, 2 (9):128-134.
- iv) **Muindi, E. M.**, Muthomi, J. W., Nderitu, J. H., Olubayo, F. M., Kabira, J. N., Chemining'wa, G. N., Kiretai, S. M. and Aura, J. A. 2009. Use of cereal border crops in management of aphid-transmitted viral diseases during seed potato production. *African Journal of Horticultural Science*, 2: 69-78

Other Papers in Conference Proceedings/ Book abstracts

- i) **Muindi, E. M.**, Muthomi, J. W., Nderitu, J. H., Olubayo, F. M., Kabira, J. N., Cheminin'wa, G. N., Kiretai, S. M. and Aura, J. A. 2008. Management of potato viruses in seed potato production using border crops. 11th KARI Biennial Scientific Conference, 10–14th November 2008, Nairobi, Kenya. - 2008.
- ii) Muthomi, J. W., Nderitu, J. H., Olubayo, F. M., **Muindi, E. M.**, Kabira, J. N., Kiretai, S. M. and Aura, J. A. 2008. Management of aphid-transmitted virus diseases in seed potato production by use of border crops and insecticides. 8th Horticultural Association of Kenya (HAK) workshop, Masinde Muliro University of Science and Technology, 8th-11th December 2008, Kakamega, Kenya. – 2008.
- iii) **Muindi, E. M.**, Muthomi, J. W., Nderitu, J. H., Olubayo, F. M., Kabira, J. N., Chemining'wa, G. N., Kiretai, S. M. and Aura, J. A. (2007). Management of aphids by use of border crops, mineral oil and bifenthrin in seed potato production. 7th Horticultural Association of Kenya (HAK) Workshop on sustainable horticultural production in the tropics held at the Faculty of Agriculture, University of Nairobi, from 28th November to 1st December 2007, Nairobi, Kenya