

## **NGETICH KIPCHIRCHIR FELIX**

**Name:** Ngetich Kipchirchir Felix  
**Title/Qualification:** Ph.D  
**Position:** Senior Lecturer/Director, Research and Extension  
**Department:** Land and Water Management  
**School:** Agriculture  
**Area of Specialization:**



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**Short Biography**

[https://www.researchgate.net/profile/Felix\\_Ngetich3](https://www.researchgate.net/profile/Felix_Ngetich3)

**Research Interests**

Soil and Water Resources Management, Soils, Crop Modeling, Biofertilizers, Land Use Change, Land Use Planning, Rural Livelihoods, Remote Sensing Applications, Sustainable Agriculture, Remote Sensing and GIS, Geostatistics, Rainfall Analysis

**Publications in Journals:**

- M.N. Kiboi, K.F. Ngetich, J. Diels, M. Mucheru-Muna, J. Mugwe, D.N. Mugendi. (2017). Minimum tillage, tied ridging and mulching for better maize yield and yield stability in the Central Highlands of Kenya. *Soil & Tillage Research* 170 (2017) 157–166.
- Oscar Kisaka, monicah Mucheru-Muna, felix ngetich, Jayne Mugwe, Daniel Mugendi, Franklin Mairura, Jonathan Muriuki: *Using Apsim-model as a decision-support-tool for long-term integrated-nitrogen- management and maize productivity under semi -arid conditions in Kenya*. *Experimental Agriculture* 04/2015; 2015(2015):21.  
DOI:10.1017/S0014479715000095

M. Oscar Kisaka, M. Mucheru-Muna, F. K. Ngetich, J. Mugwe, D. Mugendi, F. Mairura, C. Shisanya, G. L. Makokha: *Potential of deterministic and geostatistical rainfall interpolation under high rainfall*

*variability and dry spells: case of Kenya's Central Highlands*. Theoretical and Applied Climatology  
03/2015; DOI:10.1007/s00704-015-1413-2

- K.F. Ngetich, J. Diels, C.A. Shisanya, J.N. Mugwe, M. Mucheru-muna, D.N. Mugendi: *Effects of selected soil and water conservation techniques on runoff, sediment yield and maize productivity under sub-humid and semi-arid conditions in Kenya*. *Catena* 10/2014; 121:288–296. DOI:10.1016/j.catena.2014.05.026
- A.I. Okeyo, M. Mucheru-Muna, J. Mugwe, K.F. Ngetich, D.N. Mugendi, J. Diels, C.A. Shisanya: *Effects of selected soil and water conservation technologies on nutrient losses and maize yields in the central highlands of Kenya*. *Agricultural Water Management* 05/2014; 137:52–58. DOI:10.1016/j.agwat.2014.01.014
- K.F. Ngetich, M. Mucheru-Muna, J.N. Mugwe, C.A. Shisanya, J. Diels, D.N. Mugendi: *Length of growing season, rainfall temporal distribution, onset and cessation dates in the Kenyan highlands*. *Agricultural and Forest Meteorology* 05/2014; 188:24–32. DOI:10.1016/j.agrformet.2013.12.011
- M. Oscar Kisaka, M. Mucheru-Muna, F. K. Ngetich, J. N. Mugwe, D. Mugendi, F. Mairura: *Rainfall Variability, Drought Characterization, and Efficacy of Rainfall Data Reconstruction: Case of Eastern Kenya*. *Advances in Meteorology* 01/2014; Volume 2014(Article ID 380404). DOI:10.1155/2015/380404
- K. F. Ngetich, P. Wandahwa, I.I.C. Wakindiki: *Long-term effects of tillage, sub-soiling and profile strata on properties of a Vitric Andosol in the Kenyan Highlands*. *Journal of Tropical Agriculture* 01/2008; 46(1- 2):13-20.

### **Presentation of Papers at Academic and Professional Conferences**

- Kiboi M.N, Muna M.W., Ngetich F. K, Mugwe J.N. Mugendi D.N. and Wambugu. S. (2013). Effects of Selected Soil Water Conservation Strategies on Maize Yield through Farmer Managed Trials in the Central Highlands of Kenya. Paper presented during the Soil Science Society of East Africa Conference held on 21st to 25th October 2013 at Cathay Hotel in Nakuru, Kenya*
- Okeyo, A. I., Mucheru-Muna, M., M., Mugwe, J., Ngetich, K. F., Mugendi, D. N., Diels, J. and Shisanya, C. A (2013). Enhancing Adaptation to Climate Variability in Rainfed Farming Systems; The role of soil and water conservation technologies in the central highlands of Kenya. Paper presented during the Soil Science Society of East Africa Conference held on 21st to 25th October 2013 at Cathay Hotel in Nakuru, Kenya*
- Mugi E.W., Ngetich F.K., Muna M.W., Mugwe J.N., Mugendi D.N. And Mairura F. (2013). Integrating Indigenous and Conventional Knowledge-Based Seasonal Climate Forecasts for Farmers Enhanced Adaptation to Climate Variability in Tharaka-Nithi and Kitui Counties. Paper presented during the Soil Science Society of East Africa Conference held on 21st to 25th October 2013 at Cathay Hotel in Nakuru, Kenya*
- Mucheru-Muna MW, Ngetich F.K., Mugendi DN, Mugwe JN, Vanlauwe B, Jan Diels and Merckx R. (2013). Soil chemical properties as influenced by organic inputs and mineral*

*fertilizer in Mbeere District, Kenya. Paper presented during the Soil Science Society of East Africa Conference held on 21st to 25th October 2013 at Cathay Hotel in Nakuru, Kenya.*

*Oscar Kisaka, Mucheru-Muna, M., Ngetich, F.K., Mugwe, J., Mugendi, D., and Mairura, F. (2013). Characterization of Seasonal Rainfall Variability and Drought Probability of the Semi Arid Areas of Mbeere Region in Embu County, Kenya. Paper presented during the Soil Science Society of East Africa Conference held on 21st to 25th October 2013 at Cathay Hotel in Nakuru, Kenya.*

*Oscar Kisaka, Ngetich K. F. Shisanya, C. and Makhoka, S. (2013). Evaluation Of The Most Appropriate Method In Orographic Rainfall Data Reconstruction Of Mbeere District Using Geographical Information System Tools For Agricultural Development. Paper presented during the Soil Science Society of East Africa Conference held on 21st to 25th October 2013 at Cathay Hotel in Nakuru, Kenya*

### **Books/Book Chapters Published**

M. Oscar Kisaka, Mucheru-Muna M, Ngetich F, Mugwe J, Mugendi DN, Mairura F: Seasonal Rainfall Variability and Drought Characterization: Case of Eastern Arid Region, Kenya. Adapting African Agriculture to Climate Change Climate Change Management, Edited by WL Filho, AO Esilaba, KPC Rao, G Sridhar, 01/2015: chapter Seasonal Rainfall Variability and Drought Characterization: Case of Eastern Arid Region, Kenya: pages 53-71; Springer NL., ISBN: 978-3-319-13000-2

Felix K. Ngetich, Chris A. Shisanya, Jayne Mugwe, Monicah Mucheru-Muna, Daniel Mugendi: The Potential of Organic and Inorganic Nutrient Sources in Sub-Saharan African Crop Farming Systems. Soil Fertility Improvement and Integrated Nutrient Management - A Global Perspective, 02/2012; , ISBN: 978-953-307-945-5