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Title and address

NAME: Rose Adhiambo Nyikal

OCCUPATION: Agricultural Economist

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NAIROBI, Kenya

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**ACADEMIC QUALIFICATIONS:**

PhD Agricultural Economics – 2000
MSc Agricultural Economics – 1990
BSc Agriculture (Hons) – 1980
East African Advanced Certificate of Education – 1976
East African School Certificate - 1974
Certificate of Primary Education - 1970

OTHER COURSES ATTENDED

May 2008 and July 2008 (5 weeks): International Training Programme on Education for Sustainable Development, Sweden (Chalmers, Uppsala and Gothenburg Universities), and South Africa (Rhodes University)

July 2007 – September 2007 (12 weeks): Environmental Impact Assessment and Audit, at the Jomo Kenyatta University of Agriculture and Technology, Kenya.

July 1984 - September 1984 (8 weeks): Monitoring and Evaluation of Public Sector Projects and Programmes, conducted at the School of Development Studies of the University of East Anglia, United Kingdom.

May 1983 – July 1983 (8 weeks): Agricultural Sector Projects Planning and Appraisal, conducted in Nairobi by the African Development Bank and the Economic Development Institute of the World Bank.

MANAGEMENT / TASK ENHANCING COURSES / WORKSHOPS / SEMINARS

1. A Regional Facilitators' Training Course on Skills of Delivery, organized by AICAD and JICA, 4th to 8th August 2003
2. An In-house Training Programme on Financial Management and Human Resource Management for Chairmen of Departments of the University of Nairobi: 2nd to 4th February 2006
3. The Workshop on the Training of Chief Internal Examiners: 13th to 14th July 2006

4. Seminar on Results-based management: 4th to 5th April 2007
5. Agribusiness Management Curriculum Open Delivery System, October 12-16, 2009

WORK EXPERIENCE

August 1980 to April 1981: Crop Production Extension Officer in South Nyanza District

May 1981 – February 1983: Agricultural Officer, based in Industrial Crops Branch of the Ministry of Agriculture headquarters, handling policy issues of industrial crops

March 1983 to November 1984: Agricultural Officer, based in Planning Division of the Ministry of Agriculture headquarters, in charge of Projects register, for Monitoring and Evaluation

December 1984 to September 1987: Farm Management Extension Officer, Kisii District, and coordinator Kisii Valleybottom Integrated Development Project from June 1986 to September 1987, alongside Farm Management duties. Also, the deputy to the District Agricultural Officer (DAO) and severally Acting DAO

October 1989 to April 1991: Agricultural Officer in Farm Management Division, Ministry of Agriculture

UoN Lecturer Positions

April 1991 to 28 October 1992: Assistant Lecturer of Agricultural Economics

29 October 1992 to 27 September 2007: Lecturer of Agricultural Economics

28 September 2007 to 3rd February 2016: Senior Lecturer of Agricultural Economics

4th February 2016 to Date: Associate Professor of Agricultural Economics

Course preferences

- Operations Research
- Mathematics for Economists
- Rural Finance and microfinance
- Farm Management / Production Economics
- Development Economics and Policy

(The respective thematic area is **Agribusiness Management**)

MSc Research Work supervised / under supervision:

- (i) The effect of using animal traction on farm efficiency and household labour allocation on smallholder farms in Kenya – Paul Maina - (*graduated - 2004*)
- (ii) A Social Economic Analysis of Preferences of Fodder Legumes and Information Flow Among Farmers: a case of *Desmodium* and *Calliandra* in Central Kenya – Judith Sinja – (*graduated 2006*)
- (iii) Economic Optimization of Integrated Soil Fertility Management Strategies for Maize-based Production Systems: A Case Study of Smallholder Farm Typologies in Central Kenya – John Macharia - (*graduated - 2006*)
- (iv) Towards integrated soil fertility management: risk efficiency of selected smallholder systems of Central Kenya – Freda Maina – (*graduated - 2008*)
- (v) Beekeepers' participation in group-based financial institutions and adoption of improved technologies in Arid and Semi-Arid Lands: a case of Makueni district – Otieno Peter Shimon – (*graduated 2007*)

- (vi) An evaluation of the role of social capital in smallholder farmers' market access and income: evidence from pigeon pea farmers in eastern Kenya – Stella Wambugu – (*graduated 2008*)
- (vii) Determination of optimal farm plans for Ishiara / Gathigi irrigation scheme of Mbeere District, Kenya – Francis Kitoo (*graduated 2008*)
- (viii) Determinants of the adoption of conservation tillage practices and their implications on profitability in maize-cowpeas cropping system – a case of Makueni District - Jane Mutune (*graduated - 2009*)
- (ix) An evaluation of smallholder snow-peas market organization and performance in Buuri and Laikipia East district, Kenya – Anne Rugenyi (*graduated 2011*)
- (x) Determination of use for certified maize seeds and the relative importance of transaction costs in moist transitional maize zones in Kenya: a case of Embu District - Bernard Gathigi (*graduated 2012*)
- (xi) An economic analysis of trader preferences for quality attributes along the pigeon pea value chain in Kenya: a case of Coastal Kenya urban markets – Zipora Otieno (*graduated 2010*)
- (xii) An Analysis of access to and efficiency of financing mechanisms in compliance to EUREPGAP standards among smallholder farmers – Elossy Kangai (*absconded*)
- (xiii) An analysis of factors influencing farmer participation in livestock marketing in Nyagatare district, Rwanda – Eric Gahamanyi (*graduated 2013*)
- (xiv) An assessment of the impact of increased access of microfinance on farm productivity among smallholder farmers in Bomet district – Robert Kirui (*graduated 2011*)
- (xv) An assessment of the use and effect of mobile phone based money transfer in Kenyan agriculture – Oliver Kirui (*graduated 2011*)
- (xvi) Factors affecting loan repayment performance of smallholder farmers in Combolcha, Eastern Hararghe, Ethiopia – Million Sileshi Haile (*graduated 2012*)
- (xvii) An Economic assessment of the effect of microfinance on smallholder farmers' income in Nyamagabe district, Rwanda – Eularie Mutamuliza (*graduated 2012*)
- (xviii) An assessment of factors influencing non-adoption of biogas technology in rural households of Rwanda – Sylvie Sangwa (*graduated 2013*)
- (xix) An impact Assessment of the Treadle pump technology on the welfare of small scale farmers in Kenya: the case of Western Province – Sarah Kariuki (*graduated 2013*)
- (xx) An economic assessment of household solid waste management options in Kibera slum, Kenya – Mary Nthambi (*graduated 2013*)
- (xxi) Determinants of Food security status among Smallholder Horticultural Farmers in Kirinyaga, Mbooni and Buuri Districts in Kenya – Jane Chege (*graduated 2014*)
- (xxii) Analysis of factors influencing participation of smallholder farmers in Red Beans market in Halaba Special District, Ethiopia – Agete Jerena Kabeto (*graduated 2014*)
- (xxiii) Farmers' preference for agricultural extension reform in Kenya – Irene Teresia Muatha (*graduated 2014*)
- (xxiv) An assessment of farmers' preferences for crop insurance in Kenya – Opiyo Denis Olila (*graduated 2014*)
- (xxv) An assessment of mango farmers' choice of marketing channels in Makueni, Kenya – Davis Muthini (*graduated 2015*)
- (xxvi) An Analysis of Profitability and Factors Influencing Adoption of Agro-Ecological Intensification (AEI) Techniques in Yatta, Machakos County, Kenya – Virginia Wango (*graduated 2016*)

- (xxvii) An Assessment of Profitability and Utilization of Multipurpose Legume Options in Nandi County – Mercy Anyango Onyango (*graduated 2017*)
- (xxviii) An assessment of cotton supply response in Kenya – Evelyn Kaumba (*continuing*)
- (xxix) An assessment of intra-household income distribution patterns and their effects on food security: the case of French beans producing households in Mbooni Constituency, Kenya - Lydia Kabugua (*continuing*)
- (xxx) An Analysis of Risk Attitudes and Risk Management Strategies Among Dairy Farmers in Murang'a County, Kenya – Caroline Waweru (*graduated 2016*)
- (xxxi) An analysis of factors influencing market channel choice by fish farmers' in Kirinyaga County – John Nyagah (*now continuing after a break*)
- (xxxii) A comparative analysis of economic returns from African indigenous vegetables in semi-arid and non-arid rural areas of Kenya – Jamleck Osiemo (*graduated 2016*)
- (xxxiii) An economic analysis of the impact of weather index-based crop insurance on farmers' income in Huye District of Rwanda – Olive Ashiimwe (*graduated 2015*)
- (xxxiv) Analysis of farmers preferences of alternative green gram marketing channels in Mbeere South District – Esther Kihoro (*graduated 2016*)
- (xxxv) An assessment of farmers' awareness and perception on improved cassava varieties in Homa Bay County, Kenya – Isaiah Odhiambo Okuku (*graduated 2018*)
- (xxxvi) An assessment of effect of the national fertilizer subsidy program on farmer participation in private fertilizer markets in North Rift region of Kenya - Joyce Mumbua Makau (*graduated 2018*)
- (xxxvii) An assessment of the effect of gendered decision-making and access to institutional support services on maize production efficiency in Kenya – Jessica Osanya (*graduated 2018*)
- (xxxviii) Assessment of farmers' preferences for integration of community-owned resource persons and interrelationships in animal trypanosomiasis management methods in Kwale County, Kenya – Arnold Musungu (*graduated Sept 2020*)
- (xxxix) An assessment of factors influencing consumption of orange flesh sweet potato bread in Kenya – Felix Mwala Shiundu (*has taken examinations, concluding thesis*)
- (xl) Economic analysis of determinants of membership and benefits of participation in pyrethrum cooperatives in Musanze District, Rwanda – Claudine Kayitesi (*graduated Dec 2019*)
- (xli) An Analysis of Household Food Production Diversification and Dietary Diversity in the Upper West Region of Ghana – Solomon Amaobeng (*graduated Dec 2019*)
- (xlii) Effect of Rural Bank Credit access on technical efficiency of smallholder cassava farmers in the Fanteakwa District of Ghana – Arnold Kwesi Missiane (*graduated 2020*)
- (xliii) An analysis of determinants of access to and use of credit by smallholder farmers in Suakoko District, Liberia - Lorbah Christina Roberts (*graduated 2017*)
- (xliv) Analysis of the perceptions and effects of nutrition messaging approaches on consumption of orange-fleshed sweet potatoes among young children and their care-givers in Homa Bay County, Kenya - Sylvester Okoth Ojwang' (*graduated 2020*)
- (xlv) An analysis of determinants and extent of market participation by soybean farmers in Kakamega County, Kenya - Edna Mbembe Amoit (*awaiting graduation*)

- (xlvi) An analysis of farmers' awareness, perceptions and Effects of chicken value chain practices on Newcastle Disease outbreaks in Kenya - Billy Ipara Okemer (*graduated Dec 2019*)
- (xlvii) Assessment of the effect of use of good agricultural practices on Irish potato production and marketing in Kenya – Wilter C Momanyi (*submitted for examination*)

Ph.D. Research Work supervised / under supervision:

An evaluation of farmer adoption choice of stem borer / striga management technologies in Western Kenya” (Esther Njuguna, *graduated 2009*)

Supply response to weather index-based crop insurance: an econometric analysis of maize production in Uasin-Gishu County, Kenya (Kiplimo Langat Benard, Moi University, *graduated 2013*)

A gendered analysis of socio-economic factors influencing adoption of new livestock vaccines with reference to contagious bovine pleura-pneumonia (Romona Ndanyi, PhD research *current, taken leave*)

Assessment of Economic Impact of French Bean Production on Climate Change and Prevailing Adaptation Strategies: The case of Smallholder Farming in Central and Eastern Kenya (Peter S Otieno, PhD research, *graduated 2018*)

Evaluation of linkages between farm production and nutrition: case study of Kisii and Nyamira Counties, Kenya – Davis N Muthini (*graduated in Dec 2020*)

Analysis of agro-pastoralists’ participation in wetland management practices in Ewaso Narok swamp, Kenya - Magdalene Mutumi Mwangi (*proposal writing*)

Efficiency analysis of agricultural risk sharing mechanism: A Case of Rural Outreach of Financial Innovations and Technologies Programme in Kenya – Jackson Echoka (*proposal writing*)

MSc and PhD Research Work examined:

- (i) Adoption of improved maize production technologies among smallholder farmers in semi-arid zones of Kenya: the case of improved seeds and inorganic fertilizers in Machakos district *Nzuma*
- (ii) The potential impact of improved maize seeds and fertilizers on food security and incomes of smallholder farmers in the Mumias Sugar Scheme *Manyengo*
- (iii) Economic evaluation of green pigeon pea marketing channels and the impact of transaction costs: a case study of Makueni district. *Murage*
- (iv) Gender and dissemination of improved fodder trees: the case of *Calliandra calothyrsus* in Embu District, Kenya. *Wanyoike*
- (v) Women access to land and its effect on their small scale agricultural productivity: a case study of maize production in Machakos district. *Karienyeh*
- (vi) Analysis of the use of inoculant-based technologies by smallholder farmers and its effect on output commercialization: case of field bean farmers in Western Kenya. *Wafula*

- (vii) **Egerton University 2009:** Determinants of Adoption of Improved Wheat Varieties and Fertilizer Use by Smallholder Farmers in Nakuru and Nyeri Districts. *Njane*
- (viii) An analysis of the Demand for Fresh Fruits and Vegetables in Nairobi, Kenya – *Bundi*
- (ix) **Kenyatta University 2013:** Contract farming of coconut in Kwale and Kilifi counties: participation and productivity analysis
- (x) **Kenyatta University 2014:** Analysis of socio-economic factors affecting the production of smallholder coffee in Kirinyaga County, Kenya
- (xi) **Kenyatta University 2014:** Economic impact of integrated pest management technology for control of mango fruit-flies in Embu County, Kenya
- (xii) Economic Analysis of Farmers' Preferences for Participatory Management of Volcanoes National Park in Rwanda – *Musafili*
- (xiii) **Moi University 2015:** Price dynamics in international black tea markets: evidence from Kenya, India and Sri Lanka and selected importers of Kenyan tea
- (xiv) **Moi University 2015:** Analysis of determinants of technical efficiency in cashew nut production in Kilifi County, Kenya
- (xv) **Kenyatta University 2016:** Impact of coffee certification among smallholder farmers in Embu County, Kenya
- (xvi) **Kenyatta University 2017:** Economics of biological control of cereal stem borers in Eastern Africa: a case study of maize and sorghum production in Kenya
- (xvii) **Moi University 2019:** An econometric estimation of the aggregate import demand function for COMESA with in-depth analysis of regional trade integration. *Mairura*

KEY ADMINISTRATIVE AND PROFESSIONAL ASSIGNMENTS:

- (i) **Chairman of the Department of Agricultural Economics, University of Nairobi, February 2004 – February 2010**
- (ii) February 2004 – 2011: Member of the Academic Board of the Collaborative Masters' Program in Agricultural and Applied Economics (CMAAE) in Eastern, Central and Southern Africa.
- (iii) 2006-2007: Member of the Task force on Establishment of Agricultural Information and Communication Management Programme, an initiative of ASARECA-RAIN. Reviewer for the East African Agriculture and Forestry Journal
- (iv) External Examiner, Moi University, Department of Agricultural Economics and Resource Management 2011-2016
- (v) External Examiner, Karatina University, Department of Agricultural Economics and Extension 2012 -16
- (vi) Kenya Census of Agriculture: Data Needs Assessment (October 2014), coordinated by Ministry of Agriculture, Livestock and Fisheries Development, and the Kenya National Bureau of Statistics
- (vii) Curriculum Reviewer for the Commission for University Education
- (viii) Member of Graduate School Board from 2017 to 2020
- (ix) Associate Dean, Faculty of Agriculture, University of Nairobi, August 2016 to February 2019.
- (x) Acting Principal, College of Agriculture and Veterinary Sciences, University of Nairobi, February 2019 to June 30, 2021.
- (xi) Acting Dean, Faculty of Agriculture, University of Nairobi, July 1 2021 to date

PUBLICATIONS

Selected Journal Papers

Nyikal R. A. and C. Ackello-Ogutu "An Evaluation of Institutional Credit and Its Role in Agricultural Production in Kenya," in *Agricultural Policies and Food Security in Eastern and Southern Africa*. Mukhebi, A.W. *et al*, eds. 1996. SD Publication Series, USAID pp 107-118

J. Sinja, J. Karugia, M. Waithaka, D. Miano, I. Baltenweck, S. Franzel, **R. Nyikal**, & D. Romney. "Adoption of fodder legumes technology through farmer-to-farmer extension approach" *Uganda Journal of Agricultural Sciences*, 2004, 9: 222-226

Nyikal R. A. and W. Olouch-Kosura "Risk Preference and Optimal Crop Combinations in Kahuro Division of Murang'a District, Kenya" *Agricultural Economics* 32 (2005) 131-140

P. M. Guthiga, J. T. Karugia, and **R. A. Nyikal** "Does use of draft animal power increase economic efficiency of smallholder farms in Kenya?" *Renewable Agriculture and Food systems*: 22(0): 1-7(2007)

Peter Shimon Otieno, **Rose Adhiambo Nyikal** and Fred Invani Mugivane. 2010. "Non-credit services of group-based financial institutions: Implications for smallholder women's honey income in arid and semi-arid lands of Kenya" *African Journal of Agricultural Research* Vol. 5(5), pp. 344-347, 4 March, 2010.

Available online at <http://www.academicjournals.org/AJAR>

ISSN 1991-637X © 2010 Academic Journals

Wambugu, S., J. J. Okello, and **Rose Nyikal**. "Effect of Social Capital on Performance of Smallholder Farmer Organizations in Western Kenya" *Journal of Agricultural Science and Technology*. Dec. 2010, Volume 4, No.6 (serial No.31): 10-19. ISSN 1939-1250 USA

Otieno Zipora, Julius Okello, **Rose Nyikal**, Agnes Mwang'ombe, Daniele Clavel. "The role of varietal traits in the adoption of improved dryland crop varieties: The case of pigeon pea in Kenya". *AfJARE* Vol 6 No. 2: 176-193 September 2011

Mutune Jane, John Mburu, **Rose Nyikal** and Geoffrey Kironchi

"Determinants of adoption of conservation tillage practices in maize-cowpea cropping systems: the case of Makeni District, Kenya". *Journal of Soil Science and Environmental Management* Vol. 2(11), pp. 354-361, 29 Nov. 2011

Available online at <http://www.academicjournals.org/JSSEM>

ISSN 2141-2391 ©2011 Academic Journals

Kirui Oliver K, J J Okello and **R A Nyikal**. "Awareness of Mobile Phone-Based Money Transfer Services in Agriculture by Smallholder Farmers in Kenya", *International Journal of ICT Research and Development in Africa*, 3(1), 1-13, January-June 2012 1 (IJICTRDA 3(1))

Million Sileshi1, **Rose Nyikal** and Sabina Wangia. “Factors Affecting Loan Repayment Performance of Smallholder Farmers in East Hararghe, Ethiopia”, *Developing Country Studies* Vol 2, No.11, 2012. ISSN 2224-607X (Paper) ISSN 2225-0565 pp 205-213 (Online www.iiste.org)

Nthambi Mary, **Rose Nyikal** and John Mburu. “Determinants of households’ choice of solid waste management options in Kibera slum, Kenya”. *Journal of International Real Estate and Construction Studies*, Vol. 3 No. 2, 2013 pp 143-162. ISSN 2153-6813

Chege, Jane W., **Rose A Nyikal**, John Mburu and B W Muriithi. “Impact of Export Horticulture Farming on Per Capita Calorie Intake of Smallholder Farmers in Eastern and Central Provinces of Kenya.” *International Journal of Food and Agricultural Economics* ISSN 2147-8988, E-ISSN: 2149-3766 Vol. 3 No. 4, 2015, pp. 65-81

Wango V.N., Mburu J., Onwong’a R., **Nyikal R.** 2016
Assessing Profitability Of Selected Agro-Ecological Intensification Techniques In Sorghum And Cassava Based Cropping Systems In Yatta Sub County, Kenya. INTERNATIONAL JOURNAL OF SCIENTIFIC & TECHNOLOGY RESEARCH VOLUME 5, ISSUE 05, MAY 2016 ISSN 2277-8616 187 IJSTR©2016 www.ijstr.org

David Otieno and **Rose Nyikal**. “Analysis of Consumer Preferences for Quality and Safety Attributes in Artisanal Fruit Juices in Kenya”, *Journal of Food Products Marketing*, DOI: 10.1080/1045444.2016.1164103, July 2016: pp 2-18

Makau Joyce Mumbua, P Irungu, **R A Nyikal** and Lilian Kirimi. “An assessment of the effect of a national fertiliser subsidy programme on farmer participation in private fertiliser markets in the North Rift region of Kenya”, *African Journal of Agricultural and Resource Economics* (AfJARE) Volume 11 Number 4, December 2016, pages 292-304

Ndiritu, M., Boa, E., **Nyikal, R.** 2016. “Plant health rallies as an extension tool in small-scale farming in Kenya”. *CABI Study Brief* 12. DOI: <https://dx.doi.org/10.1079/CABICOMM-62-8116>

Peter Shimon Otieno, Chris Ackello Ogutu, John Mburu and **Rose Adhiambo Nyikal**. “Effect of Global-GAP policy on smallholder French beans farmers’ climate change adaptation strategies in Kenya”, *African Journal of Agricultural Research* Vol. 12(8), pp. 577-587, 23 February, **2017** DOI: 10.5897/AJAR2017.12149

Muthini, D., **Nyikal, R.** and Otieno, D.J. “Determinants of Small-Scale Mango Farmers’ Market Channel Choices in Kenya: An Application of the Two-Step Cragg’s Estimation Procedure” *Journal of Development and Agricultural Economics (JDAE)*, Volume 9, Issue Number 5, 2017, pp. 111-120. Article number C42894163812. DOI: 10.5897/JDAE2016.0773. ISSN: 2006-9774. Available online at: <http://www.academicjournals.org/JDAE>.

Peter Shimon Otieno, Chris Ackello Ogutu, John Mburu and **Rose Adhiambo Nyikal**. “Effect of Global-GAP Policy on Climate Change Perceptions of Smallholder French Beans Farmers in Central and Eastern Regions, Kenya”, *Climate* 2017, 5, 27; doi:10.3390/cli5020027 www.mdpi.com/journal/climate

Muatha Irene Tesesia, David Jakinda Otieno and **Rose Adhiambo Nyikal**. “Determinants of smallholder farmers’ awareness of agricultural extension devolution in Kenya”, *African Journal of Agricultural Research* (AJAR) Vol 12 (51), pp 3549-3555, 21 December 2017, ISSN 1991-637X

Lorbah C. Roberts, David J. Otieno and **Rose A. Nyikal**. “An analysis of determinants of access to and use of credit by smallholder farmers in Suakoko District, Liberia”. *African Journal of Agricultural Research* Vol. 12 (24) pp 2093-2100, ISSN 1991-637X, 2017

B. O. Ipara, D. O. Otieno, **R. A. Nyikal**, and S. N. Makokha, “The role of unregulated chicken marketing practices on the frequency of Newcastle disease outbreaks in Kenya”, *Poultry Science* 98(12):6356–6366 <http://dx.doi.org/10.3382/ps/pez463>, Elsevier, December 2019

Muthini Davis Nguthi, Jonathan M Nzuma and **Rose A Nyikal**. “Variety awareness, nutrition knowledge and adoption of nutritionally enhanced crop varieties: Evidence from Kenya.” *African Journal of Agricultural and Resource Economics* (AfJARE) Volume 14 Number 4 pages 225-237, December 2019

Muthini Davis, Jonathan Nzuma & **Rose Nyikal**. “Farm production diversity and its association with dietary diversity in Kenya.” *Food Security*. The Science, Sociology and Economics of Food Production and Access to Food ISSN 1876-4517 Food Sec. DOI 10.1007/s12571-020-01030-1 April 2020

Okello, J.J., Shiundu, F.M., Mwendu, J. Lagerkvist, C.J., **Nyikal, R.A.**, Muoki, P., Mburu, J., Low, J.W., Hareau, G., Heck, S. “Quality and psychosocial factors influencing purchase of orange-fleshed sweet potato bread”. *International Journal of Food Science and Technology*. ISSN 1365-2621, pp1432 – 1446. First published 28 Sep2020

Jessica Osanya, Rahma I. Adam, David Jakinda Otieno, **Rose Nyikal**, Moti Jaleta. “An analysis of the respective contributions of husband and wife in farming households in Kenya to decisions regarding the use of income: A multinomial logit approach”
Author links open overlay panel - *Women's Studies International Forum* Volume 83, November–December 2020, 102419

Arnold Lumumbah Musungu, David Jakinda Otieno, Beatrice Wambui Muriithi, **Rose Nyikal**, Daniel Masiga, Michael Nyanganga Okal. “Are the current animal trypanosomiasis management methods in Kenya complementary or substitutes? Evidence from Kwale County”. *African Journal of Agricultural and Resource Economics* (AfJARE) Volume 16 Issue 1 Pages 46-63

Billy Okemer Ipara, David Jakinda Otieno, **Rose Nyikal**, Nabwile Stellah Makokha, “The contribution of extensive chicken production systems and practices to Newcastle disease outbreaks in Kenya”, *Tropical Animal Health and Production* 2021 Feb 15;53(1):164. doi: 10.1007/s11250-020-02550-w, Springer

Arnold Missiame, **Rose A Nyikal**, Patrick Irungu. “What is the impact of rural bank credit access on the technical efficiency of smallholder cassava farmers in Ghana? An endogenous switching regression analysis”. *Heliyon* 7 (2021) e07102. Science Direct

Arnold Missiame, Patrick Irungu and **Rose Adhiambo Nyikal** and Grace Darko Appiah-Kubi (2021), “Adoption of rural bank credit programs among smallholder farmers in Ghana: an average treatment effect estimation of rates of exposure and adoption and their determinants”, *Agricultural Finance Review* Emerald Publishing Limited 0002-1466 DOI 10.1108/AFR-02-2021-0016

Books / Book Chapters

Nyikal, R Chapter 23 – Analytical Skills in Agribusiness, in *Agribusiness: a Source Book for Agribusiness Training*. Graduate Readings Vol. 4 Part I. CJ van Rooyen, OT Doyer, F Bostyn and L D’Hease eds. 2004

Kimani, SK, Macharia, JM, **Nyikal, R**, Bationo, A., and Ramish, J. 2007. Evaluation of organic and mineral sources of nutrients in central Kenya. In: *Mineral Versus Organic Fertilization conflict or Synergism?* Proceedings. 16th International Symposium of the International Scientific Centre of Fertilizers (CIEC), 16-19 September 2007, Ghent, Belgium. S. De Neve, J. Salomez, A. Van Den Bosshe, S. Haneklaus, O. Van Cleemput, G. Hofman and E. Schnug (Eds.) pp 276-280.

Adekunle AA, Ellis-Jones J, Ajibefun I, **Nyikal RA**, Bangali S, Fatunbi O and Ange A. 2012. *Agricultural innovation in sub-Saharan Africa: experiences from multiple-stakeholder approaches*. Forum for Agricultural Research in Africa (FARA), Accra, Ghana
ISBN 978-9988-8373-2- 0 (print)
ISBN 978-9988-8373-2- 4 (pdf) **(book chapter)**

Sileshi Haile Million, **Rose Nyikal** and Sabina Wangia. “Factors affecting loan repayment performance of smallholder farmers: East Hararghe, Ethiopia”. Paperback: 104 pages
LAP LAMBERT Academic Publishing (March 22, 2012)
ISBN-10: 3848439395
ISBN-13: 978-3848439393 **(book co-author)**

Kirui, Oliver K., Julius J. Okello, **Rose A. Nyikal** 2013. *Impact of Mobile Money Transfer Services in Kenyan Agriculture*
LAP LAMBERT Academic Publishing (November 23, 2013)
ISBN-10: 3659174416
ISBN-13: 978-3659174414 **(book co-author)**

Mutamuliza Eularie, **Rose Nyikal** and Stephen G. Mbogoh 2016. *Microfinance services and their effects on small farmers in Rwanda*
LAP LAMBERT Academic Publishing (2016-08-09)
ISBN-10: 3659164062
ISBN-13: 978-3-659-16406-4
EAN: 9783659164064 **(book co-author)**

Conference Papers

R. A. Nyikal “Business in the Small Farms: the Challenge for Kenyan Smallholders”. Contributed paper, *African Crop Science Society Conference, Nairobi, Kenya, November 2003*

Nyikal, R. A. “Globalization of the Food and Agricultural Economy: Kenya’s prospects at a glance”. Contributed paper, *African Crop Science Society Conference, Entebbe, Uganda, December 2005*

Macharia J. M., S. K. Kimani, **R. A. Nyikal** and J Ramisch. “Economic evaluation of organic and inorganic resources for recapitalizing soil fertility in smallholder maize-based cropping systems of central Kenya”. A poster paper presented at the *26th Conference of the International Association of Agricultural Economists, Gold Coast, Australia, August 2006*

Karugia J T, W O Kosura, **R. A. Nyikal**, M O Odumbe and P P Marenya. “Access to Land, Income Diversification and Poverty Reduction in Rural Kenya”. A contributed paper presented at the *26th Conference of the International Association of Agricultural Economists, Gold Coast, Australia, August 2006*

R. A. Nyikal “Financing smallholder agricultural production in Kenya: an analysis of effective demand for credit” *African Crop Science Conference Proceedings Vol. 8 pp1261-1264. ISSN 1023-070X/2007*

Shimon Otieno, **R. A. Nyikal** and Fred Inuani Mugivane “Non-credit services of group-based financial institutions: implications for smallholder women honey income in arid and semi-arid lands of Kenya” *Contributed paper for the second African Association of Agricultural Economists’ Conference in Ghana in August 2007*

Wambugu, Stella N; J J Okello, **R A Nyikal**, Bekele Shiferaw. “Effect of Social Capital on Smallholder Producer Organizations: the case of groundnut growers in Western Kenya”. *Contributed paper for the 27th Conference of the International Association of Agricultural Economists, Beijing, China in August 2009.*

Haile Million Sileshi, **Rose Nyikal** and Sabina Wangia. “Factors affecting loan repayment performance of smallholder farmers in East Hararghe, Ethiopia” *aGRO 2011, Inaugural biennial conference of the faculty of Agriculture, University of Nairobi, September 2011*

Mutamuliza Eularie, **R A Nyikal** and S G Mbogoh. “Factors influencing participation in microfinance services: the case of smallholder farmers in Nyamagabe district, Rwanda” *aGRO 2011, Inaugural biennial conference of the faculty of Agriculture, University of Nairobi, September 2011*

Hutchinson M J, J Ambuko, **R Nyikal** and G Ruto. “Essential Services package of support to improve productivity of smallholder farmers in Kenya”. *aGRO 2011, Inaugural biennial conference of the faculty of Agriculture, University of Nairobi, September 2011*

Nthambi Mary, John Mburu and **Rose Nyikal**. “Smallholder Choice of Compliance Arrangements: The Case GlobalGAP Adoption by French Bean Farmers in Kirinyaga, Mbooni and Buuri/Laikipia Districts, Kenya” *4th International Conference of the African Association of Agricultural Economists, September 22-25 2013, Hammamet, Tunisia*

Chege Jane, John Mburu, **Rose Nyikal** and Beatrice Muriithi. “Impact of Export Horticulture Farming on Food Security of Smallholder Farmers in Mbooni and Kirinyaga Counties, Kenya” 4th International Conference of the African Association of Agricultural Economists, September 22-25 2013, Hammamet, Tunisia

Nyikal R A and J D Otieno. “Consumer willingness to pay for quality and safety attributes in home-made fruit juices in Western Kenya” Presented at the 29th International Conference of Agricultural Economists, August 2015, Milan, Italy

Olila D O, **R A Nyikal** and D J Otieno “What do farmers want from Crop Insurance Schemes: a stated preference approach.” Presented at the 29th International Conference of Agricultural Economists, August 2015, Milan, Italy

Otieno, Ogutu, Mburu, **Nyikal** “Does global-gap reduce smallholder greenhouse gas emissions from French beans production in Central and eastern regions of Kenya?” Presented at the 5th International Conference of the African Association of Agricultural Economists, September 23-26 2016, Addis Ababa, Ethiopia

Muatha, Otieno, **Nyikal** “Factors influencing smallholder farmers’ awareness of agricultural extension devolution in Kenya: a binary logit analysis” Presented at the 5th International Conference of the African Association of Agricultural Economists, September 23-26 2016, Addis Ababa, Ethiopia

Onyango, Otieno, **Nyikal**, Ojiem “An economic analysis of grain legumes profitability in Nandi County, Kenya” Presented at the 5th International Conference of the African Association of Agricultural Economists, September 23-26 2016, Addis Ababa, Ethiopia

Amoabeng-Nimako, Solomon, **Nyikal Rose** & Ackello-Ogutu, Chris, 2019. "Effects of Household Agricultural Production on Diet Quality in Northern Ghana: an insight into the Roles of Markets and Agricultural Gender Decisions," – oral presentation at the *6th African Association of Agricultural Economists (AAAE) Conference in Abuja, Nigeria: 23 – 26 September 2019*

Ipara, B.O., Otieno, D.J., **Nyikal, R.A.** and Makokha, S.N. “The role of unregulated chicken marketing practices on the frequency of Newcastle Disease outbreaks in Kenya” – oral presentation at the *6th African Association of Agricultural Economists (AAAE) Conference in Abuja, Nigeria: 23 – 26 September 2019*

Ojwang, S.O., Otieno, D.J., Okello, J.J., Muoki, P. and **Nyikal, R.A.** “Does nutrition education influence retention of vitamin A biofortified orange-fleshed sweet potato in farms? Evidence from Kenya” – oral presentation at the *6th African Association of Agricultural Economists (AAAE) Conference in Abuja, Nigeria: 23 – 26 September 2019*

Mbembe, E.A., Otieno, D.J., **Nyikal, R.** and Odendo, M. “Determinants of market participation by smallholder soybean farmers in Kakamega County, Kenya” – poster presentation at the *6th African Association of Agricultural Economists (AAAE) Conference in Abuja, Nigeria: 23 – 26 September 2019*

Ipara, B.O., Otieno, D.J., **Nyikal, R.A.** and Makokha, S.N. (2019). The role of chicken production systems and management practices on Newcastle Disease outbreaks in Kenya – oral presentation at the *Tropentag Conference at Universities of Kassel & Goettingen, Germany: 18 – 20 September 2019*

Nyikal, R A (2019). “Feeding a growing population by producing more food with fewer resources”. Presented at the *Fifteenth Annual meeting of African Science Academies (AMASA-15)* Accra – Ghana 13-16 November 2019

Research Reports

A gender differentiated analysis of the profitability and constraints in use of Improved Fallow in Western Kenya. RESEARCH sponsored by ECAPAPA 2005-06 (*completed 2006, report sent to ECAPAPA*)

Livelihoods and compliance with GlobalGAP: Drivers, Viability, and Livelihood Impact of Compliance with Private Food Safety Standards among Smallholder Horticultural Producers in Kenya. IDRC Nairobi

Capacity Strengthening Strategy through Capacity Needs Assessment for Country Level Strategic Analysis and Knowledge Support System (SAKSS). ReSAKSS CNA Report No. 8, Facilitated by IFPRI, August 2014, ILRI, Nairobi

JOINT SECTOR REVIEW ASSESSMENT: Advancing Mutual Accountability through Comprehensive, Inclusive, and Technically Robust Review and Dialogue (Report for Ministry of Agriculture, Livestock and Fisheries)

GRANTMANSHIP, RESEARCH AND DEVELOPMENT INTERESTS AND ACTIVITIES

A gender differentiated analysis of the profitability and constraints in use of Improved Fallow in Western Kenya. RESEARCH sponsored by ECAPAPA 2005-06. Cost: US\$9980 (*completed 2006, report sent to ECAPAPA*)

Budgeted for, acquired and managed some 14 grants for MSc Agricultural and Applied Economics during the period 2005 to 2010, amounting to US\$ 272,586=

Livelihoods under climate variability and change: An analysis of the adaptive capacity of rural poor to water scarcity in Kenya’s drylands (ACCCA) (not completed; data gaps)

Livelihoods and compliance with GlobalGAP (Co-investigator, IDRC supported, 2011-13: Canadian \$ 306,300=) Drivers, Viability, and Livelihood Impact of Compliance with Private Food Safety Standards among Smallholder Horticultural Producers in Kenya
Innovation systems, agricultural growth and rural livelihoods in East Africa, DFID/ESRC Growth Programme: (DFID/University of Reading, Co-investigator, 2012-2014: GBP 50,297.46)

Public consumer perceptions and preferences for food quality and safety attributes in home-made fruit juices in Kenya (Co-investigator, AERC supported, 2012-13: US\$ 15,000)

Research Support project (dissemination): The Fourth International Conference of the African Association of Agricultural Economists, 2013-14, Grant Number 107589-001 IDRC, US\$ 24,424.78)

Research Support project (dissemination): The Sixth International Conference of the African Association of Agricultural Economists, 2019-20, Grant Number 109300-001 IDRC, CAD\$ 20,000)

Analysis of Marketing Efficiency along the Poultry Feed Value chain in Kenya
Grant No. AE/FAC/20-003 ERP Award 1338 of US\$12,500= from **March 2020**

Higher Education Capacity Building for Research: Enhancing Analytical Techniques for Staff and Students in the College of Agriculture and Veterinary Sciences. USAID BHEARD RC105980 UN US\$ 22,550= from **May 2021**

CONSULTANCIES

- (i) 1997, 1998, 1999, 2000, and 2001: Participation in Africa Training Course (United Nations Centre for Regional Development -*UNCRD*) on Local and Regional Development Planning and Management, as a course Assistant on Project Planning, Management and Evaluation.
- (ii) UNCRD Lecturer: Monitoring and Evaluation – 2003, 2004, 2005, 2006, 2007
- (iii) Network participant in Institutional University Co-operation between the Flemish Inter-university Council and a number of universities in Eastern and Southern Africa. Contributed *A Note on Analytical Skills in Agribusiness* in *Graduate Readings Vol. 4 Agribusiness*
- (iv) African Institute for Capacity Development (*AICAD*) Lectures:
 - a. Credit and Micro-finance for Irrigation Projects - January 2003
 - b. Agriculture as an Enterprise and Viable Enterprise Selection - January 2004.
 - c. Planning the Farm Business - November 2004, December 2005, February 2007, March 2008, September 2009
- (v) April 2007: Review of the Tea Industry Task-Force report. Tea Board of Kenya
- (vi) July 2009: Review of MSc Agribusiness Management Curriculum of the Great Lakes University in Kisumu (*GLUK*), for the Commission for Higher Education
- (vii) April – May 2010: A member of the curriculum review team for the Collaborative Masters Programme in Agricultural and Applied Economics (*CMAAE*)
- (viii) Essential services package of support to women smallholder farmers – for Action Aid International, July-August 2010
- (ix) A Review of Success Stories in Agricultural Innovations in Sub Sahara Africa (Kenya, Uganda and Ethiopia case studies), for *FARA (Forum for Agricultural Research in Africa)* 2011
- (x) Identification and stocktaking of existing initiatives in Africa on capacity development for agricultural innovation (*FARA* 2013)
- (xi) Capacity Strengthening Strategy through Capacity Needs Assessment for country level Strategic Analysis and Knowledge support System (*SAKSS*) (*ReSAKSS* 2012)

- (xii) September – October 2014: A member of the curriculum development team for MSc Agricultural Economics and MSc Agribusiness Management and Sustainable Agriculture, for the Department of Agricultural Resource Economics and Extension, Karatina University
- (xiii) March – September 2015: Supervision of an intern on behalf of CABI (*Plantwise*), on a study on Mass Extension in Plant Health: Extension campaigns against major crop pests and diseases in Kenya
- (xiv) Joint Sector Review: ReSAKSS and Ministry of Agriculture, Livestock and Fisheries 2016

Community Service

A member of the Kenya Professional Association of Women in Agriculture and Environment (KEPAWAE): Chairperson from November 2004 to November 2006. Prepared a proposal for an Environmental Management Project, funded by Ford Foundation, 2005-2007

Member of Boards of Governors in two schools, Mayieka Mixed Secondary School in Kisumu County and Nyawara Girls' High School in Siaya County, Kenya

PROFESSIONAL ASSOCIATIONS

1. Africa Farm Management Association
2. African Association of Agricultural Economists (*current Secretary-Treasurer*)
3. International Association of Agricultural Economists
4. International Food and Agribusiness Management Association
5. Kenya Professional Association of Women in Agriculture and Environment (**now dormant**)

REFEREES

1. Prof. W. O. Kosura, willis.kosura@gmail.com
2. Prof. S. G. Mbogoh, steve2008sgm@yahoo.com
3. Prof A W Mwang'ombe, mwangombe@uonbi.ac.ke
4. Prof Philip Nyangweso, philoe2000@gmail.com