

# UNIVERSITY OF NAIROBI

## COLLEGE OF AGRICULTURE AND VETERINARY SCIENCES

### DEPARTMENT OF AGRICULTURAL ECONOMICS

#### 2014 DEPARTMENT OF AGRICULTURAL ECONOMICS ANNUAL REPORT

#### 1.0 INTRODUCTION

The Department of Agricultural Economics is a Department within the Faculty of Agriculture, College Of Agriculture and Veterinary Sciences. The Department is headed by Dr. Fred I. Mugivane who is also a Senior Lecturer in the Department. The Department is housed in the Department of Agricultural Economics building within the central location of the college. The origin of the department dates back to 1970 when the University of Nairobi and Faculty of Agriculture were established. Its distinct character over the years has been a commitment to provide excellent formal training in Agricultural Economics, Agribusiness Management, Agricultural Education and Extension and Agricultural Information and Communication Management. The emphasis in the fields research, community outreach, teaching and resource management. Due to demand for the training in Agribusiness Management, Agricultural Education and Extension for secondary school teachers and organizational personnel, the student enrollment has drastically increased.

The academic programmes offered by the department include the following:

- Certificate in agricultural information communication and management (AICM);
- Bachelor of Science in Agribusiness Management;
- BSc. Agricultural Education and Extension;
- Postgraduate Diploma in Agricultural Information Communication and Management (AICM);
- MSc. Agriculture of Economics;
- MSc. Agriculture and Applied Economics;
- MSc. Agricultural Information Communication and Management – Full time and ODEL Mode (AICM);
- Ph.D Agricultural Economics;
- Ph.D Agricultural Information Communication and Management (AICM);
- Ph.D Agricultural and Applied Economics.

#### 2.0 PROGRAMMES OFFERED

**Table 1: Programmes**

Programme		Number of Students		
		Module I	Module II	Total
1	Bachelor of Agribusiness Management	260		260
2	Bachelor of Science in Agricultural Education and Extension	209		209
3	Bachelor of Agriculture – Economics Major	45		45
4	Master of Science in Agricultural and Applied Economics	23		23
5	AICM	14		14
<b>TOTAL</b>		<b>551</b>		<b>551</b>

### 3.0 STUDENT POPULATION

**Table 2: Student Distribution**

Year	Number of Students					Total
	Agribusiness	Extension	Econ Major	CMAAE	AICM	
1 <sup>st</sup> , Year	111	86				197
2 <sup>nd</sup> , Year	86	60				146
3 <sup>rd</sup> , Year	35	32	25			92
4 <sup>th</sup> , Year	28	31	20			79
Master of Science				23	14	37
Doctor of Philosophy (Ph.D)						
<b>TOTAL</b>	<b>260</b>	<b>209</b>	<b>45</b>	<b>23</b>	<b>14</b>	<b>551</b>

### 4.0 INTERNATIONAL STUDENT COMPONENT

**Table (3a): Distribution by Module**

Year	Number of Students		
	Module I	Module II	Total
1 <sup>st</sup> , Year			
2 <sup>nd</sup> , Year			
3 <sup>rd</sup> , Year			
4 <sup>th</sup> , Year			
Master of Science			
Doctor of Philosophy (Ph.D)			
<b>TOTAL</b>			

### 5.0 RESEARCH ACTIVITIES

**Table 4: Research Activities**

No.	Name	Research
1.	Prof. W. Kosura, Ph.D Professor	<ul style="list-style-type: none"> <li>Urban Agriculture-Potential and Implications for food and Nutrition Security, Environment, Income and Food Safety;</li> <li>Poverty Impacts of Straddling and Rural Income Diversification;</li> <li>Value Chain Development and Food Security with Climate Change and Strengthening Capacity in Higher Education.</li> </ul>
2.	Prof. Ackello-Ogutu Associate Professor	<ul style="list-style-type: none"> <li>Market Analysis of the Kenya Seed Industry</li> </ul>
3.	Prof. Steve Mbogoh Associate Professor	<ul style="list-style-type: none"> <li>Analysis of factors that influence membership to Cooperatives in Rwanda</li> <li>Analysis of Food Security Status and Factors that Influence Food Insecurity Coping Mechanisms in Rwanda</li> <li>Economic Evaluation of Irrigation Water Use in Ahero Irrigation Scheme in Kenya</li> <li>Economic Study on Willingness to Participate in Carbon Trading Afforestation Projects in Transmara, Kenya</li> </ul>
4.	Dr. Rose Nyikal Senior Lecturer	<ul style="list-style-type: none"> <li>Innovation Systems, Agricultural Growth and Rural Livelihoods in East Africa; DFID/ESRC Growth Programme</li> <li>Supervising 12 MSc. and one Ph.D Research Work</li> </ul>
5.	Dr. Jonathan	<ul style="list-style-type: none"> <li>Food Price Trends Analysis in the Eastern Africa Region</li> </ul>

	Nzuma Lecturer	
6.	Dr. Patrick Irungu Lecturer	-Successfully completed a study entitled " <i>Adapting Livestock Systems to Climate Change: A Global Approach</i> " funded by Colorado State University for US\$31,897.
7.	Dr. DavidJakinda Lecturer	Conducted data collection on consumer welfare and food preferences in Nairobi and Siaya counties
8.	Dr. J.R.Busienei Tutorial Fellow	Mutahi, N. and Busienei, J.R. (2014). Effect of Strategic Human Resource Management Practices on Performance of Public Universities in Kenya (Egerton University)
9.	Mr. Evans Chimoita Tutorial Fellow	Data Collection for Ph.D Proposal which entail: Factors Influencing Effective Agricultural Extension Approaches in Sorghum Production, Embu - County

## 6.0 INTERNATIONAL LINKS AND COLLABORATIONS

Table 5: International Links

N o.	Name	Link
1	Prof. W. Kosura, Ph.D Professor	<ul style="list-style-type: none"> <li>• Lund University;</li> <li>• University of Bonn-Centre for Development Research;</li> <li>• IFPRI;</li> <li>• ACIAR-Australia;</li> <li>• Humboldt-University; Berlin-Germany</li> </ul>
2	Prof. Ackello-Ogutu Associate Professor	<ul style="list-style-type: none"> <li>• CIMMYT;</li> <li>• SIDA;</li> <li>• USAID</li> </ul>
3	Prof. Steve Mbogoh Associate Professor	<ul style="list-style-type: none"> <li>• Supervision of Foreign Students Registered within the Department of Agricultural Economics;</li> <li>• Collaboration in Research Project: Expect to Collaborate with Makerere University (Uganda), Imbagara (Rwanda), Isabu (Burundi) and National Potato Council (Kenya) in Implementing of an ASARECA Financed Project on "Enhancing Policies to Facilitate Farmers Participation in Inputs and Outputs Markets in Eastern and Central Africa in 2015.</li> </ul>
7	Dr. Rose Nyikal Senior Lecturer	<ul style="list-style-type: none"> <li>• University of Reading, in a Collaborative Research</li> </ul>
12	Dr. Jonathan Nzuma Lecturer	<ul style="list-style-type: none"> <li>• Food Safety Collaboration with the University of Goetheques - Germany</li> </ul>
13	Dr. Patrick Irungu Lecturer	<ul style="list-style-type: none"> <li>• Collaborated with World Animal Protection (WAP) on a study entitled "<i>State of farm animal welfare in Kenya, Nigeria and South Africa</i>".</li> <li>• Collaborated with FAO-Ethiopia in the drafting of the East African Agribusiness and Agro-industry Development Program (E3ADP) for the EAC Secretariat.</li> <li>• Collaborated with Regional Strategic Analysis and Knowledge Support System (RESAKSS) on a study entitled "<i>Impact of conditioning factor interventions on food security in drylands of Africa</i>".</li> </ul>
14	Dr. DavidJakinda Lecturer	<ul style="list-style-type: none"> <li>• Attended a collaborative value sec project workshop at Hamaraya University in Ethiopia September - October 2014</li> <li>• Participated in leadership mentoring workshops by PICO-EA in Mozambique</li> </ul>

## 7.0 PUBLICATIONS FOR THE YEAR 2014

**Table 6: Publications**

No.	Name	Research
1	Prof. W. Kosura, Ph.D Professor	<ul style="list-style-type: none"> <li>Ochieng, I.J.; Otieno, D.J. and Oluoch, Kosura (2014). An Assessment of Farmers Awareness of Bio-fuels Investment as an Alternative Livelihood in Kenya.</li> </ul>
2	Prof. Ackello-Ogutu Associate Professor	<ul style="list-style-type: none"> <li>Mburu, S.; Ackello-Ogutu and Mulwa, R. (2014). Analysis of Economic Efficiency and Farm Size: A Case Study of Wheat Farmers in Nakuru District, Kenya. <i>Economics Research International</i>; Vol. 2014 ID: 802706. Hindawi Publishing Corporation</li> </ul>
3	Prof. Steve Mbogoh Associate Professor	<ul style="list-style-type: none"> <li>Omondi, S.; Mbogoh, S.G. and Munei, K. (2014). "An Evaluation of the Factors Influencing Farmers' to Pay (WTP) for Irrigation Water: The Case of Ahero Irrigation Scheme in Kenya". <i>International Journal of Science, Environment and Technology</i>; Vol. 3, No. 5 (2014).</li> <li>Omondi, S.; Mbogoh, S.G. and Munei, K. (2014). Characterization of Irrigation Farm Households and Economic Valuation of Irrigation Water: The Case of Ahero Irrigation Scheme in Nyando District of Kenya. <i>Asian Journal of Agricultural Economics and Sociology</i>, Vol. 4, No. 3; pp. 220-209</li> </ul>
12	Dr. Jonathan Nzuma Lecturer	<ul style="list-style-type: none"> <li>Mwangi, S.C; Mbatia, O.L.E and Nzuma, M.J. (2014). The Effect of Exchange Rate Liberalization in Kenya on French Beans Exports <i>International Journal of Economics and Management</i>. 1: (4) 39-56</li> </ul>
13	Dr. Patrick Irungu Lecturer	<ol style="list-style-type: none"> <li><b>Irungu, P.</b>, P.M. Ithondeka, E. Wafula, S.N. Wekesa, H. Wesonga and T.W. Manga (2014). An audit of constraints and opportunities in Kenya's livestock export value chain. <i>Journal of Agricultural Science and Technology B</i>, Volume 4(2B):102-120.</li> <li>Omwenga, I., L. Kanja, J. Nguta, J. Mbaria and <b>P. Irungu</b> (2014). Assessment of lead and cadmium residues in farmed fish in Machakos and Kiambu Counties, Kenya. <i>Bulletin of Environmental Contamination and Toxicology</i>, pages 1-10: DOI: 10.1080/02772248.2014.911541.</li> <li><b>Irungu, P.</b>, B. Bett, S.G. Mbogoh, T. Randolph, S.O. Nyamwaro, and G. Murilla (2014). Determinants of cattle market price volatility in Maasailand, Kenya: A GARCH-M Application. <i>East African Agricultural and Forestry Journal</i>. In Press.</li> </ol>
14	Dr. David Jakinda Lecturer	<ol style="list-style-type: none"> <li>Otieno, D.J. (2014). Analysis of Public Awareness and Perception on Foreign Led Leases in Kenya. <i>Journal of Agricultural Economics, Extension and Rural Development</i>, Vol. 2(3): 023-030, ISSN – 2360-798X</li> <li>Otieno, D.J.; Hubbed, L and Ruto, E. (2014). Assessing Technical Efficiency and determinants in beef cattle production in Kenya. <i>Journal of Development and Agricultural Economics</i>, 6(6): 267-278</li> </ol>
15	Dr. J.R. Busienei Tutorial Fellow	<ol style="list-style-type: none"> <li>John R. Busienei, Fred I. Mugivane, Evans Chimoita, and Mary Babu (2015). Effect of contingency perspective of human resource strategic orientation on performance of large private manufacturing firms in Kenya. <i>Prime Journal of Business Administration and Management (BAM)</i>; ISSN: 2251-1261. Vol. 5(1), pp. 1713-1727, January 20th, 2015; <a href="http://www.primejournal.org/BAM">www.primejournal.org/BAM</a>.</li> </ol>
17	Ms. Mary Babu Tutorial Fellow	<ol style="list-style-type: none"> <li>Evans L. Chimoita; Mary Babu; Gweyi Onyango Joseph; Kennedy Machacha; Omufwoko J. (2014). Secondary School Students' Understanding of Energy Flow in Ecosystems, <i>Journal of Social Science and Humanities</i>, 1 (28), ISSN: 2319 – 859X</li> <li>John R. Busienei, Fred I. Mugivane, Evans Chimoita, and Mary Babu (2015). Effect of contingency perspective of human resource strategic orientation on performance of large private manufacturing firms in Kenya. <i>Prime Journal of Business Administration and Management (BAM)</i>; ISSN: 2251-1261. Vol. 5(1), pp. 1713-1727, January 20th, 2015; <a href="http://www.primejournal.org/BAM">www.primejournal.org/BAM</a>.</li> <li></li> </ol>

18	Mr. Evans Chimoita Tutorial Fellow	<p>1. Evans L.Chimoita, Gitau Dennis Maina, Dennis Opiyo Olila, Joseph P. Gweyi Onyango (2015). The Role of Farmer Field Schools Approach in Improving Tea Production among Smallholding in Kenya. Universal Journal of Agricultural Research, 3, 4-10. Doi: 10.13189/ujar.2015.030102</p> <p>2. Evans L.Chimoita; Mary Babu; Gweyi Onyango Joseph; Kennedy Machacha; Omufwoko J.(2014). Secondary School Students' Understanding of Energy Flow in Ecosystems, Journal of Social Science and Humanities, 1 (28), ISSN: 2319 – 859X</p> <p>3. John R. Busienei, Fred I. Mugivane, Evans Chimoita, and Mary Babu (2015). Effect of contingency perspective of human resource strategic orientation on performance of large private manufacturing firms in Kenya. Prime Journal of Business Administration and Management (BAM); ISSN: 2251-1261. Vol. 5(1), pp. 1713-1727, January 20th, 2015; www.primejournal.org/BAM.</p>
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## 8.0 CONSULTANCIES

**Table 7: Consultancies**

No.	Name	Assignments
1	Prof. W. Kosura, Ph.D Professor	<ul style="list-style-type: none"> <li>Developing a Strategy for Strengthening the Functions and Sustainability of AGRA Policy Nodes and Hubs</li> </ul>
2	Prof. Ackello-Ogutu Associate Professor	<ul style="list-style-type: none"> <li>Baseline Survey of all Kenyan Counties Covering agricultural households; agribusiness value chain and agricultural policies and institutions</li> </ul>
12	Dr. Jonathan Nzuma Lecturer	<ul style="list-style-type: none"> <li>Food Price Trends Work</li> </ul>
13	Dr. Patrick Irungu Lecturer	<ul style="list-style-type: none"> <li>Together with scientists from LARMAT, I unsuccessfully bided to offer consultancy services as an Agricultural Economist to undertake a feasibility study of Galana/Kulalu Irrigation project proposed by the Ministry of Agriculture.</li> </ul>
15	Dr. J.R.Busienei Tutorial Fellow	<ul style="list-style-type: none"> <li>Together with scientists from the various departments within the college and most specifically Crop Protection, I unsuccessfully bided to offer consultancy services as a Business Management Consultant to undertake value addition of Avocado fruit for AGRA West Africa</li> </ul>

## 9.0 STAFFING

**Table (8a): Academic Staff**

No.	Name	Academic rank	Gender
1.	Prof. W. Kosura	Professor	M
2.	Prof. Ackello-Ogutu	<del>Associate</del> Professor	M
3.	Prof. Steve Mbogoh	<del>Associate</del> Professor	M
4.	Prof. O.L.E. Mbatia	Associate Professor	M
5.	Dr. Fred Mugivane	Senior Lecturer	M
6.	Dr. John Mburu	Senior Lecturer	M
7.	Dr. Rose Nyikal	Senior Lecturer	F
8.	Dr. Sabina Wangia	Senior Lecturer	F
9.	Dr. J.J. Okello	Senior Lecturer	M
10.	Dr. Cecilia Ritho	Lecturer	F
11.	Dr. Kimpei Munei	Lecturer	M
12.	Dr. Jonathan Nzuma	Lecturer	M
13.	Dr. Patrick Irungu	Lecturer	M
14.	Dr. DavidJakinda	Lecturer	M
15.	Dr. J.R.Busienei	Tutorial Fellow	M

16.	Mr. Hillary Nyanganga	Tutorial Fellow	M
17.	Ms. Mary Babu	Tutorial Fellow	F
18.	Mr. Evans Chimoita	Tutorial Fellow	M

**Table (8b): Administrative Staff**

No.	Name	Designation	Gender	Grade
1.	Ednah Moi	Technologist		
2.	Dorothy Mkakisha	Typist		

## 10.0 GRADUANDS

## 11.0 PAPERS PRESENTED AT CONFERENCES

**Table 9: Papers Presented in Conferences**

No.	Name	Conferences attended, Paper Presented and Workshops
1	Prof. W. Kosura, Ph.D Professor	Prospects for Devolution Guaranteeing Pro-poor Land Tenure Security: Some Lessons from Kenya-WB
2	Prof. Ackello-Ogutu Associate Professor	Stakeholder Conference on Market Inquiry and Benchmarking of the Kenya Seed Industry. Utalii College, Nairobi 26 <sup>th</sup> , November 2014
12	Dr. Jonathan Nzuma Lecturer	<ul style="list-style-type: none"> <li>• Mwangi, S.C; Mbatia, O.L.E and Nzuma, M.J. (2014). The Effect of Exchange Rate Liberalization in Kenya on French Beans Exports in Kenya. <i>Journal of Agricultural Economics, Extension and Rural Development</i>. 1 (1-12)</li> <li>• Wairimu, P.W., Okello, J.J and Nzuma, M.S (2014). Blessing or Evil? Contract Farming, Smallholder Poultry Product and Household Welfare in Kenya. <i>Quarterly Journal of International Agriculture</i>. 53 (4) 319-340</li> <li>• Ockello, J.J.; Kirui, O.K., Gitonga, M.Z., Njiraini, G.W. and Nzuma, M.J. (2014). Determinants of Awareness of and Use of ICT – Based Market Information Services in Developing County Agriculture: The Case of Smallholder Farmers in Kenya. <i>Quarterly Journal of International Agriculture</i>. 53 (3) 263-282</li> </ul>
13	Dr. Patrick Irungu Lecturer	-The East African Agribusiness and Agro-industry Development Program (E3ADP), a pathway for inclusive market access. A paper presented at the EAC/FAO Regional Workshop on Agribusiness Investment Promotion at Milles Collines Hotel, Kigali, Rwanda (8-12 <sup>th</sup> December 2014).
14	Dr. David Jakinda Lecturer	Kerubo, D and Otieneo, D.J. (2014). Consumer awareness of organic vegetables in Kenya. An oral paper presented at the 8 <sup>th</sup> , Egerton University International conference, 26 <sup>th</sup> , - 28 <sup>th</sup> , 2014.
15	Dr. J.R. Busienei Tutorial Fellow	5 <sup>th</sup> , African International Business and Management Conference (AIBUMA); 2014. <i>Human Resource Strategic Orientation and Performance of Large Private Manufacturing Firms in Kenya: A Moderating Effect of Business Strategy</i> ; Lower Kabete Campus – University of Nairobi  Research and Grand Proposal Writing April 2014 – University of Nairobi Enterprise

		Services (UNES) University of Nairobi AGRA – Wageningen UR Workshop Competence & Skills Training for Ph.D Supervisors and Established Scientists: Rise to the Challenge (January 15 <sup>th</sup> , -17 <sup>th</sup> , 2014)
18	Mr. Evans Chimoita Tutorial Fellow	Research and Grand Proposal Writing April 2014 – University of Nairobi Enterprise Services (UNES)

## 12.0 CORPORATE SOCIAL RESPONSIBILITY PROJECTS

**Table 10: Community Work**

No.	Name	Link
1	Prof. W. Kosura, Ph.D Professor	<ul style="list-style-type: none"> <li>Advisory Committee Member: Africa-Growth and Development Policy (AGRODEP) Consortium.</li> </ul>
2	Prof. Ackello-Ogutu Associate Professor	<ul style="list-style-type: none"> <li>Collaboration on Initiatives of County Governments (Nyeri County), ASCU and Ministry of Agriculture, Livestock and Fisheries.</li> </ul>
3	Prof. Steve Mbogoh Associate Professor	<ul style="list-style-type: none"> <li>Corporate Social Responsibility by Supporting Church Activities and Membership to Secondary School and Teacher Training College Boards in Embu County, Kenya</li> </ul>
7	Dr. Rose Nyikal Senior Lecturer	<ul style="list-style-type: none"> <li>Secretary/Treasurer of the African Association of Agricultural Economics, housed in the Faculty of Agriculture</li> </ul>
12	Dr. Jonathan Nzuma Lecturer	<ul style="list-style-type: none"> <li>Wairimu, P.W., Okello, J.J and Nzuma, M.S (2014). Blessing or Evil? Contract Farming, Smallholder Poultry Product and Household Welfare in Kenya. Quarterly Journal of International Agriculture. 53 (4) 319-340</li> </ul>
13	Dr. Patrick Irungu Lecturer	<ul style="list-style-type: none"> <li>Contributed two modules for an online course in African Drylands Ecology and Societies being hosted jointly by Colorado State University and University of Nairobi's Dept of LARMAT</li> </ul>
14	Dr. David Jakinda Lecturer	<ul style="list-style-type: none"> <li>Attended farmer schools in Bungoma with students on Agribusiness attachment to assist farmers to learn value addition skills in April, 2014</li> </ul>
15	Dr. J.R. Busienei Tutorial Fellow	<ul style="list-style-type: none"> <li>Supporting Seventh Day Adventist Church Activities as a member both in Nairobi and Uasin Gishu, Counties</li> </ul>
18	Mr. Evans Chimoita Tutorial Fellow	<ul style="list-style-type: none"> <li>Tree planting exercise of Kanyariri farm, UON</li> </ul>

## 13.0 ANY OTHER ACTIVITY

**Prof. W. Kosura:** Advisory Board Member – School of Economics, University of Nairobi

**Dr. Nzuma, M.J.**

Ockello, J.J.; Kirui, O.K., Gitonga, M.Z., Njiraini, G.W. and Nzuma, M.J. (2014). Determinants of Awareness of and Use of ICT – Based Market Information Services in Developing County Agriculture: The Case of Smallholder Farmers in Kenya. Quarterly Journal of International Agriculture. 53 (3) 263-282

**Dr. J.R. Busienei:** A member of UoN-Survey and Rapid Results Initiative ( RRI) Team

**Mr. Evans Chimoita:**

Departmental Exam Coordinator;  
Departmental Time Table Committee Member  
Dean's Committee on Industrial Attachment