

CURRICULUM VITAE



DAVID KIPKIRUI LANGAT

RESEARCHER ID :

SCOPUS ID :

ORCID:<https://orcid.org/0000-5539-2513>

Position: Chief Research Scientist- Natural Resource Management (Economics and policy)

1. PERSONAL INFORMATION

- 1.1. NAME :** David Kipkirui Langat
- 1.2. ADDRESS:** P.O BOX 382-2-20203 LONDIANI, ,KERICHO, COUNTY
- 1.3. PHONE :** 0722 842100
- 1.4. EMAIL ADDRESS:** dlangat@kefri.org; dkipkirui@yahoo.com;
dkipkiruilangat@gmail.com
- 1.5. NATIONALITY:** Kenyan
- 1.6. GENDER :** Male

2. QUALIFICATIONS

2.1. Academic Qualifications

2012-2016- PhD in Natural Resources Management Egerton University -Thesis: ‘Economic Valuation of Forest Ecosystem Services and its Implications on Conservation Strategies in East Mau, Kenya’

1999 – 2000 Australian National University, Canberra- Masters of Science Forestry (MSc.F), Thesis: The Economics of non-timber forests products: The Case of Australian Honey Industry

1987 – 1990 Moi University, Eldoret

BSc (Wood Science and Technology – Second class Upper Division)

2.2. Key Competencies

Natural resources management -Natural Resources Economics- Ecosystem valuation and investment analysis

2.3. Other Courses

PROFESSIONAL COURSES

- 2019 Senior Management Training course –Kenya School of Government (6 weeks)
- 2018 International Forest Landscape Restoration Seminar 5 weeks, Oregon, Portland USA
- 2009 Advance Research Methods for Agroforestry – 5 weeks Course at CIRAD, Montpellier, France
- 2008 Strategic Planning and Project Management Course – Kenya Agricultural Productivity Project – 4 weeks’ course
- 2008 Scientific communication and publishing Course-School of Biological Sciences- University of Nairobi – Kenya, 1 Week
- 2008 Advance us of SPSS package for analysis in Social Sciences- KEFRI –in house Training
- 2004 International Forestry Resources and Institutions, attended a nine weeks course- Policy Analysis of Common Pool Resources at Indiana University – Graduate level course
- 2000 Scientific writing and editing Workshop KEFRI/SIDCOM – 1 Week
- 1996-97 Advanced course – the use of SPSS for date analysis

3. EMPLOYMENT HISTORY

Joined the Kenya Forestry Research Institute, KEFRI in 1990

Research Positions

- Assistant Research Officer 1990–1994

- Research Officer II 1994–1998
- Research Officer I 2002 -2006
- Senior Research Officer, 2006 -2010
- Principal Research Officer 2010- 2016
- Chief Research Officer 2017- to date

4. ADMINSTRATIVE RESPONSIBILITY

- A Member Wood Study Advisory Committee on Proposal Development on the subject of wood carving industry in Kenya (Collaborative project between Kenya Forestry Research Institute, National Museum of Kenya, Kenya Carvers Co-operative Union and UNESCO)- 1992-1993
- Technical coordinator – Economic valuation of Ecosystem Services- Kenya Water Tower Climate Change Resilience Project, US Forest Service/KEFRI -2016-2018
- Deputy Regional Director Lake Victoria Eco-region Research Programme-2010- 2018
- Regional Director 2018-to date
- National consultant, FAO/KEFRI The Restoration Initiative project on Ecosystem valuation of Mukogodo landscape 2020

5. PUBLICATIONS

5.1. Journal papers

1. **Langat, D.K.**, Kariuki, J (2004) Variations in heartwood proportion and basic destiny between provenances of *Eucalyptus grandis* (Hill ex.Maiden).
Journal of Tropical Forest Science, 16(2):179-186)
2. **Langat, D.K** and J. Cheboiwo (2010). To conserve or not to conserve: A case study of forest valuation in Kenya. **Journal of Tropical Forest Science, 22 (1): 5-12.**
3. **Langat, D.K.**, Cheboiwo, J.K., M.N Muchiri (2015) Financial Analysis of *Eucalyptus grandis* for production of medium size power transmission poles and firewood in Kenya. **African Journal of Agriculture and utilization of Natural Resources for Sustainable Development, 1(1): 38-45.**

4. Cheboiwo, J.K; R. Mugabe and **Langat D.K** (2014). Review of conservation of *Prunus Africana* and International trade opportunities for its bark in Kenya. **Journal of Emerging Trends in Engineering and Applied Science**, JETEAS, 5(6): 372-377.
5. **Langat D.K**, Maranga, E.K. Cheboiwo, J.K and Aboud, A.A (2015). The Indirect Use Value of East Mau Forest Ecosystem, Kenya. **Journal of Environmental Science and Technology**. Vol. (10)
6. **Langat, D.K**, Maranga, E.K, Cheboiwo, J ad Aboud, AA (2015). Forest use and dependence by forest adjacent households on East Mau forest ecosystem, Kenya. **Journal of Agricultural Economic, Extension and Rural Development** Vol. 3(10): 326-337.
7. **Langat D.K**, Maranga, E.K, AA. Aboud as J.K. Cheboiwo (2016). Role of Forest Resources to Local Livelihoods: The Case of East Mau Forest ecosystem, Kenya. *International Journal of Forestry Research*. Vol.2016, Article ID 453354 (<http://dx.doi.org/10.1155/2016/453354>)
8. Cheboiwo, J.K, **Langat, D.K.**, Mutiso, F., Cherono, F. (2016). A Review of Farm Forestry Evolution for the last 100 years in Kenya: A look at some key phases and driving factors. *Journal of Natural Sciences Research*, 6(16):5-9.
9. Cheboiwo, J.K, **Langat, D.K.**, Mutiso, F., Cherono, F. (2016). Farm Forestry Development in Kenya: A comparative Analysis of Household Economic Land use in Uasin Gishu and Vihiga Counties. *Journal of Environment and Earth Science* ,6(8):50-59
10. **Langat, D.K.**, Maranga, E.K., Aboud, A. A and Cheboiwo, J.K. (2018). The Value of Selected Ecosystem Services: A case study of East Mau forest ecosystem, Kenya. *Journal of Forests*, Vol. 5 (1) : 1-10
11. Khalwale, T., **Langat, D.K.**, Abuom, P., (2018). Factors influencing adoption of on-farm tree planting by households in Shinyalu, Kakamega County, Kenya, *International Journal of Horticulture and Forestry*
12. Jonah Kiprop, David Langat, Joshua Cheboiwo, Joram Kagombe, Abdala Kisiwa, Stella Gatama6 Samson Okoth (2019). Value of pollination services in farmlands adjacent to Mau, Cherangany and Mt. Elgon Forests, *Journal of Natural Sciences Research* ,Vol.9(10): 65-70.

5.2. Books

1. Langat, D. K. Economic valuation of forest resources in East Mau : Forest Valuation In Kenya, Lambert Academic publishers 2019
2. **Langat, D.**, Cheboiwo, J., Okoth, S., Kipsat, J., Kisiwa, A., Kagombe, J., Gatama, S., Guzha, A., Smith. N., Kanyanya, E., DeMeo, D. Kerkering,J and Doud,B..(2019). ‘The Value of Ecosystem Services of Mau Forest Complex, Cherangany Hills, and Mt. Elgon Forest Ecosystems’, Ministry of Environment and Forestry, Nairobi, Kenya
3. Cheboiwo, J., **Langat, D.**, Muga, M., and Kiprop , J.,(2018).Economic Analysis of Forest Landscape Restoration Options in Kenya, Ministry of Environment and Forestry, Nairobi, Kenya

5.3. Book chapters

1. **Langat, D.K.**, Cheboiwo, J and Kigomo, B (2013). **Chapter 1:** Background. In Kigomo, B.N, Kimiti, J.M and Tuwei, P.K eds, “Forest restoration handbook for Moist forest in Kenya” Nairobi, Kenya: 1-7.
2. **Langat, D. K.**, J.Cheboiwo and Suter, (2013) **Chapter 2:** Overview of natural forest degradation in Kenya. In Kigomo, B.N, Kimiti, J.M and Tuwei, P.K eds, “Forest restoration handbook for Moist forest in Kenya, Nairobi, Kenya: 8-12.
3. **Langat, D.K.**, Cheboiwo, J (2013) **Chapter 3:** The role of local communities in forest restoration. In Kigomo, B.N, Kimiti, J.M and Tuwei, P.K eds, “Forest restoration handbook for Moist forest in Kenya, Nairobi, Kenya: 13-19.

5.4. Technical Notes /Protocols/Guidelines

Guidelines

1. **Langat, D.K.**, J. Cheboiwo (2015). Guide to Estimating Financial Returns from Tree Growing in Kenya: A guide for tree growers, extension agents and forest managers – KEFRI.

2. **Langat, D.K.** Otuoma, J, Kagombe, J, Cheboiwo, J.K. Ongugo, P and Kigomo, B. 2017. Guidelines for establishing Payment for Ecosystem Services Schemes in Kenya, KEFRI, Kenya.
3. Cheboiwo, J., **Langat, D.**, Ongugo, P., and Kipsat, J. 2017. A guideline for market surveys for farm forestry products in Kenya, KEFRI, Kenya.

Posters and information leaflets

Langat, D. J. Cheboiwo, Sibelet, N (2009). Forest use by local people in Mau forests of Kenya and its implications for forest restoration – World Agroforestry Congress, August 2009, ICRAF, Nairobi, Kenya.

Information leaflets

1. **Langat, D.**, and J. Cheboiwo (2010). The Role of Local Communities in Restoration of Mau Forests Complex – KEFRI-FOREAIM information leaflet 4.
2. **Langat, D.**, and J. Cheboiwo and Sibelet, N (2010). Mau forest ecosystems: its importance and threats – KEFRI-FOREAIM information leaflet 6.
3. Njuguna, J, Kimiti, J.C, **Langat, D.** Okeyo, M, Kamondo, B and Mbinga, J. (2010). Indicators of forest degradation in Mau Complex, KEFRI-FOREAIM information leaflet
4. **Langat, D.**, Cheboiwo, J., Okoth, S., Kipsat, J., Kisiwa, A., Kagombe, J., Gatama, S., Guzha, A., Smith. N., Kanyanya, E., DeMeo, D. Kerkering,J and Doud,B..2018.
Economic Value of the Water Towers in Kenya: Supporting Decision Making and Conservation of Kenya's Important Ecosystems. Information Brief, October 2018

5.5. Policy briefs

1. **Langat, D.**, Cheboiwo, J., Muga, M., and Kiprop (2019). Landscape Restoration in Kenya: Is it worth restoring degraded landscapes?

6. RESEARCH

6.1 Completed

1. Forest and Environmental Valuation of Kenya's indigenous forests- 2004-2008-KEFRI Funded Project

2. Financial and Economic analysis of private forests, the case of Eucalyptus growing in Kenya -2006-2007
3. Economics of land use change in private natural forests 2006-2008-KEFRI Funded Project
4. Assessments of stakeholders' forest tree and tree management practices and uses in Mau forests -2006-2008- FOREAIM Project
5. Economic valuation of Forest Resources in East Mau and its Implication for conservation strategies, PhD Study
6. Biodiversity -people linkages in Mt. Elgon and Cherangany forest ecosystem -Water Towers Project 2014-2017
7. Economic valuation of Mau complex, Mt. Elgon and Cherangany Forest Ecosystems- US Forest Service and KEFRI- USAID 2016-2018
8. Systematic review of Forest Ecosystem Valuation in Kenya (2017-2019)
9. Impact of forest grazing on

6.2. Ongoing research

1. Economic valuation of restoration of degraded landscape
2. Economic analysis of land use change in woodlands
3. The use of indigenous knowledge in conservation and management of woodland resources -the case of Loima forests, Turkana
4. Development of guideline on Forest Economic valuation
5. The impacts of indigenization on forest ecosystem and livelihoods in Mau and Cherangany Forest ecosystems
6. Modelling land use change on flow of ecosystem services
7. Impact of livestock grazing on forest ecosystem and ecosystem services

6.3. Mentorship and supervision

- Have mentored more than 100 diploma, undergraduate and Msc student
- Currently supervising 2 Msc and and 2 PhD students
- Provide guidance and mentor scientists in Rift Valley and other regions in my area of expertise (30 scientists)
- Provide guidance and counselling to technical staff and other professional support staff

- Supervise and coordinate Research and Development activities within Rift Valley Eco-region
- Supervise 155 staff members within the region

7. CONFERENCES/SEMINARS/WORKSHOPS

7.1. Presentation of Papers at Academic and Professional Conferences

1. **Langat, D.**, Cheboiwo, J., Okoth, S., Kipsat, J., Kisiwa, A., Kagombe, J., Gatama, S., Guzha, A., Smith. N., Kanyanya, E., DeMeo, D. Kerkering,J and Doud,B..(2018). ‘The Value of Ecosystem Services of Mau Forest Complex, Cherangany Hills, and Mt. Elgon Forest Ecosystems’. A paper presented at the 5th KEFRI Scientific Conference, 16-19th April 2018, Muguga, Kenya.
2. **Langat, D.**, Khalwale, T., Kisiwa, A., P.O. Ongugo.2018. Indigenous traditional knowledge on landscapes, biodiversity use in Mt. Elgon forest ecosystem and implications for conservation. Kenya Forestry Research Institute. A paper presented at the 5th KEFRI Scientific Conference, 16-19th April 2018, Muguga, Kenya.
3. Kisiwa A.K., **Langat D.K.**, Gatama S., Okoth. S. Kiprop J.K. Cheboiwo J.K., Kagombe.J. (2018). Local community’s perception of forest ecosystem services in Mau, Cherangany and Mt. Elgon and implications for management. Kenya Forestry Research Institute. A paper presented at the 5th KEFRI Scientific Conference, 16- 19th April 2018, Muguga, Kenya.
4. J. Kiprop, D. **Langat**, J. Cheboiwo, J. Kagombe, A. Kisiwa, S. Gatama and S. Okoth. (2018). Value of pollination services in farmlands adjacent to Mau, Cherangany and Mt. Elgon forests. . Kenya Forestry Research Institute. A paper presented at the 5th KEFRI Scientific Conference, 16- 19th April 2018, Muguga, Kenya.
5. **Langat, D.K.**, J. Cheboiwo and Sibelet, N (2011). Forest use and dependency in West and South Western Mau forest, Kenya. International conference on tropical forest resources, Masinde Muliro University of Science and technology, 6th -10th June 2011.
6. **Langat, D.K.**, and J. Cheboiwo (2008). Evaluation of natural forests in private lands in Narok North District-Kenya: 4th KEFRI Scientific Conference 6-10th October 2008

7. **Langat, D.K.**, J. Cheboiwo and Siko, R (2006) To conserve or not conserve: A case study of forest valuation of Tindiret natural forest: 3rd KEFRI Scientific Conference 6-9th November 2006
8. Cheboiwo, J.K and **Langat, D.K** (2006) Smallholder tree growers' income opportunities from farm forest in Western Kenya: 3rd KEFRI Scientific Conference 6-9th November 2006
9. **Langat, D.K.**, Sigu, G., and Wanyondu, J.,)2004) Impact of human activities on the state of Chepalungu natural forest -2nd KEFRI Scientific Conference 1st to 4th November 2004
10. Cheboiwo, J.K and **Langat, D.K** (2004) The role of markets in natural resources conservation and management: the case of *Juniperus procera* in private farms in Marakwet District –Kenya -2nd KEFRI Scientific Conference 1st to 4th November 2004

TECHNICAL REPORTS/ WORKING PAPERS

1. Ongugo P.O, **Langat D.K.**, Oeba V.O, Kimondo J.M, Owuor B, Njuguna J, Okwaro, J and Rusell AJM. (2014). A Review of Kenya's national policies relevant to climate change adaptation and mitigation: Insights from Mt. Elgon. CIFOR Working Paper 155.
2. **Langat, D.K.** J. Cheboiwo, Nocole Sibelet and C.Garcia (2006) Traditional ecological knowledge, tree management practices, uses and economic dependency of local population on forests and tree based systems in the context of their degradation- Synthesis project Report
3. **Langat, D.K.**, J. Wanyondu and J. Cheboiwo (2005) Forest resources and local communities: A socio-economic survey of local residents bordering West Mau Forest- Technical Report for the Adventist Development Relief Agency/Community Development Trust Fund (EU)- Mau conservation project
4. **Langat, D.K.**, and J. Cheboiwo (2005). Financial and economic analysis of Eucalyptus growing –KEFRI Technical Report, Nairobi
5. **Langat, D.K.**, and J. Cheboiwo (2005). To conserve or not conserve: Forest valuation of Tindiret natural forest –Kenya KEFRI Technical Report, Nairobi
6. **Langat, D. K.**, G.Sigu. J. Wanyondu and W.Bii (2003) The state of Chepalungu natural forest – KEFRI-Technical Report (2003)

7. Sigu, G. P.Ongugo, J.Njuguna, **D.K. Langat** and A. Opiyo (2002): The impacts of forest adjacent communities on the forest condition: the case of Kedowa forest Block, West Mau forest – IFRI/CRC (K) Report

7.2. Participation in Workshops/Conferences

1. International Forestry Resources and Institutions, attended a nine weeks course- Policy Analysis of Common Pool Resources at Indiana University – Graduate level course
2. Advance Research Methods for Agroforestry –Seminar at CIRAD, Montpellier, France
3. International Forest Landscape Restoration Seminar 5 weeks, Oregon, Portland USA
4. Economic valuation of biodiversity -Rwanda - organized by PREPARED project USAID
5. Ecosystem Modelling in Lake Victoria Basin - Kampala, Uganda

8. PROFESSIONAL ENGAGEMENT

8.1. Training

- Part time Lecturer, University of Kabianga (Forest economics and valuation, Forest products marketing, Natural Resources and Environmental economics)
- Supervising Msc. Students -University of Kabianga and Nazarene University
- Co-Supervising Msc and PhD students

8.2. Consultancies

1. Ongugo, P., Omenda, T.O., **Langat, D.K.** (2002) Environmental impact assessment report for the proposed conversion of fifty hectares of forest land to tea fields: A report prepared for The Tea Board of Kenya, Nairobi.
2. Oballa, P., **Langat, D.K.** (2005) Environmental impact Assessment Report for Establishment of plantations of Eucalyptus: A report Submitted for Sinendet Cooperative Society Limited, Kericho

3. Ongugo P. **Langat, D. K**, Musila, W (2012) ‘Ecological and Socio-economic impacts of Bamboo Farming in the Western Mt. Kenya Region – PACT Kenya/USAID- June-August 2011.
4. KEFRI consultancy- 2012. ‘A Socio-economic valuation of losses from non-compliance with Forest Law Enforcement, Governance and Trade (FLEGT) in Kenya-LVBC, Kisumu.
5. **Langat, D.**, Cheboiwo, J., Okoth, S., Kipsat, J., Kisiwa, A., Kagombe, J., Gatama, S., Guzha, A., Smith. N., Kanyanya, E., DeMeo, D. Kerkering,J and Doud,B..2018. ‘The Value of Ecosystem Services of Mau Forest Complex, Cherangany Hills, and Mt. Elgon Forest Ecosystems’
6. Cheboiwo, J., **Langat, D.**, Muga, M., and Kiprop , J.,(2018).Economic Analysis of Forest Landscape Restoration Options in Kenya, IUCN/ Ministry of Environment and Forestry, Nairobi, Kenya
7. **David Langat, S. Okoth, K.Owango, N. Leley, J. Kiprop, A. Kisiwa and G. Ayaga (2020)**. Ecosystem Services Valuation for the Kakamega, Nandi North and Nandi South and Kibiri Forest Ecosystems, GEF, UNEP, KALRO
8. **David K. Langat, Leley, N and Christine Kosgey (2019)**. Ndoinet Forest Livestock Management Plan
9. **David K. Langat** 2020. Ecosystem services valuation of Mukogodo Landscape , FAO Consultancy

9. EXTERNAL AND INTERNAL RESEARCH GRANTS

Project /Grant title	Sponsor/donor	Period
1. Sustainable Development of Wood Carving Industry in Kenya (KEFRI,NMK, Kenya Carvers Cooperative Union,	UNESCO	1992-1993
2. Impact of human activities on semi-deciduous forests – Lari forest in Kiambu district	Trapnell Trust Fund	1996-1997

3. Production to consumption of Bamboo sub sector in Kenya	INBAR	1998
4. Sustainable Management and conservation of South West Mau	Community Development Trust Fund	2006
5. A Socio-economic valuation of losses from non-compliance with Forest Law Enforcement, Governance and Trade (FLEGT) in Kenya	LVBC	2012-2013
6. Kenya Water Towers Climate Change Resilience Program. The value of Ecosystem services of Mau, Cherangany and Mt. Elgon	USAID Kenya and East Africa	2016-2017

10. LOCAL, REGIONAL & INTERNATIONAL APPOINTMENTS

10.1. Local

- Deputy Regional Director LVERP- KEFRI(2010-2018)
- Regional Director -RVERP- KEFRI(2018 to date)
- Church elder, Deliverance Church Kericho
- Chair and Founder Quench -Tai Investment Company
- Youth Advisor and counsellor Kuresoi North Constituency , Nakuru County

10.2. Regional

- Team member on regional study on: Socio-economic valuation of losses from non-compliance with Forest Law Enforcement, Governance and Trade (FLEGT) in Kenya
- Technical team member of PREPARED project within the Lake Victoria Basin Region East Africa

11. AWARDS AND RECOGNITION

I have received various awards that have supported my attendance of many courses relevant to my area of expertise and selected one include:

- Awarded a short-term USAID MSC training at the Australian National university 1999-2000
- University of Indiana- 9 week training award at the Workshop in political theory and policy analysis (2004)
- Awarded 5 weeks scholarship to CIRAD Montpellier, France to study Advanced research techniques in Agroforestry (2009)

12. CONTRIBUTION TO KEFRI's ADVANCEMENT

I have made the following contributions to KEFRI's advancement;

- (a) Development of Guidelines on Forest Investment Analysis in Kenya and this has supported front line extension workers support tree growers in achieving good value for their tree investments
- (b) My pioneer studies on forest ecosystem valuation has given prominence to intangibles values of forest ecosystem energize the need to develop natural accounting in the country
- (c) The studies on Ecosystem Valuation has created interest on development of viable conservation financing and PES in Kenya
- (d) The work on economic analysis of landscape restoration options was adopted during the development of national strategy on achieving 10% forest cover
- (e) My publications in forest ecosystem valuation and forest dependence continue to be cited in many scientific publication by the scientific community -thus improving the KEFRI profile internationally

13. MEMBERSHIP TO PROFESSIONAL BODIES

1. Member of the Forest Society of Kenya
2. Associate Member of the Institute of Wood Science, U.K.

REFEREES

1. Prof. E.K Maranga

Egerton University, NARE, Faculty of Resources Development

P.O Box 536, 20115 Egerton, Kenya

2. Prof. A.A. Aboud

Egerton University, NARE, Faculty of Resources Development

P.O Box 536, 20115 Egerton, Kenya