

CURRICULUM VITAE

NAME: Dr Mbae Njugi Muchiri

ADDRESS: Kenya Forestry Research Institute (KEFRI)
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NATIONALITY: Kenyan
DATE OF BIRTH: 4 July 1954
MARITAL STATUS: Married
PROFESSIONAL QUALIFICATION: 2009 - DSc (Agriculture and Forestry) University of Joensuu,
1985 - MSc (Forestry), University of Helsinki
1979 - BSc (Forestry), University of Dar es Salaam

MEMBERSHIP OF A PROFESSIONAL BODY: Member and ex Secretary, Society of Foresters Kenya.

EXPERIENCE RECORD:

2003– to date Assistant Director/National Programme Coordinator, Forest Plantations Programme
Kenya Forestry Research Institute

Activities

- Development of assessment and simulation methods for quantifying and forecasting growth and yields of forests and trees on farm;
- Establishment and management of research plots to generate research data and to demonstrate research results;
- Monitor and evaluate research projects;
- Budgeting;
- Desk officer for Performance contracting at KEFRI.
- Chair, Task force for Schemes of service at KEFRI.
- External Examiner Kabianga University college,
- Ex External Examiner Chepkoilel college, Moi university.
- Part-time lecturer in Forest Mensuration and inventory, Moi University; and
- Liaison and collaboration with other relevant institutions, agencies and public groups interested in managing forest resources and trees on farm.

1998 to 2002 Principal Research Officer, Kenya Forestry Research Institute

Activities

- Development of assessment and simulation methods for quantifying and forecasting yields of forest resources and trees on farm;

- Establishment and management of research plots to generate research data and to demonstrate research results;
- Part-time lecturer in Forest Mensuration and inventory, Moi University;
- Liaison and collaboration with other relevant institutions, agencies and public groups interested in managing forest resources and trees on farm.
- Part-time Doctorate student, University of Joensuu .

1994 - to 1997:

Senior Research Officer,
Head Forest Resources Assessment Division, Kenya Forestry Research Institute

Activities

- Development of reliable yield forecasting methods for plantation forests, indigenous forests and farm forestry in Kenya;
- Development of scientifically based methods for estimating standing wood biomass:
- Development of reliable management regimes for woody biomass systems;
- Establishment and management of Permanent Sample Plots and demonstration sites for acquisition of research data;
- Part-time lecturer in Forest Mensuration and inventory, Moi University , Eldoret;
- Liaison and collaboration with other relevant institutions, agencies and public groups who interested in managing forest resources and trees on farm.

1988 - 1993:

Research Officer, KEFRI
Social Forestry Extension and Training

- **Activities**
- Curriculum development;
- Evaluation of Social Forestry courses sponsored by KEFRI, Donor Agencies and NGOs;
- Facilitation of Social Forestry Training courses;
- Liaison with government and donor agencies, NGOs and communities on issues related to forestry development and extension.

1985-1988:

Section Head - Forest Management Plans
Forest Department, Kenya.

Activity

- Drafting management plans and felling plans for Forest Department.
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1983-1985:

Post graduate student, University of Helsinki

Main activity

- Studies and Research

1980-1983:

Section Head - Forest Fires Protection Unit
Forest Department.

Main Activity

- Planning and co-ordinating all aspects of forest Fires Management in Kenya.
- Chief advisor to Forest Department in all aspects of forest fires.

LANGUAGES:

Language	Speaking	Reading	Writing
Kimeru	Good	Excellent	Good
English	“	“	Very good
Kiswahili	Good	Fair	“

**COMPUTER
LITERACY**

Package	Execution skills
Microsoft office	good
Excel	“
SPSS	“

PUBLICATIONS

(i) Academic dissertations

Muchiri, M.N. 2001. DSc (Agriculture and Forestry) Thesis: Yield and management of maize-*Grevillea robust* agroforestry system in Kenya. University of Joensuu. 128p.

Muchiri, M.N. 1985: MSc (Forestry) Thesis: Thinning *Cupressus lusitanica* plantations in Kiambu district, Kenya. University of Helsinki. 73p.

Muchiri, M.N.1979. Capital valuation of Meru Forest Project in Tanzania. BSc thesis

(ii) Papers and Articles

Odera, E.C; Muchiri, M.N; Gichora, M; Kimondo, J.M; Oeba, V.O; Ochung, F; Momanyi, C.O; Mutitu, K.E and Nyarindo, H. 2011. Midterm review of the Kenya Forestry Research Institute (KEFRI) strategic plan 2008-2012.

Oballa, P.O.; Muchiri, M.N.; Konuche, P. K.A. and Kigomo, B.N. Facts on growing and use of Eucalyptus in Kenya. Kenya Forestry Research Institute, P. O. Box 20412 – 00200, Nairobi. 2011.

Mugo, J.M; Njunge, J.T; Malimbwi, R.E; Kigomo, B.N; Mwasi, B.N and Muchiri, M.N. 2011. Models for predicting stem diameter from crown diameter of open grown trees in Sondu-Nyando river catchment, Kenya. Asian Journal of Agricultural Sciences 3(2): 119-126.

Oeba, V.O; Muchiri, M.N. and Kariuki Kenya, J.G. 2009. Growth performance of Eucalyptus hybrid clones and four common landraces in Kenya. Journal of East African Natural resources management VOL(3) 219-236.

Kirongo, B.B. and Muchiri, M.N. 2009. Modelling early growth of Eucalyptus hybrid clones at the Kenyan Coast. Journal of East African Natural resources management VOL(3) 257-271.

- Muga, M.O. and Muchiri, M.N.** Variation in wood properties of Eucalyptus hybrids clones and local landraces grown in Kenya. *Journal of East African Natural resources management* VOL(3)272-282.
- Muchiri, M.N. and Mbuvi, M.T.E.** 2009. **Tree resources inventory of South Nandi forest reserve.**
Nature Kenya, P.O Box 44486-00100.
reserve. Kenya Forestry Research Institute
- Muchiri, M.N., Kamondo, B., Tuwei, P. and Wanjiku, J.2009.** (Eds). Proceedings of the 4th Scientific Conference, 6 to 9 October 2009, Kenya Forestry Research Institute.
- Muchiri, M.N., Kamondo, B., Tuwei, P. and Wanjiku, J.2009.** (Eds). Proceedings of the 3rd Scientific Conference, 6 to 9 November 2006, Kenya Forestry Research Institute.
- Karachi, M., Giathi, G., and Muchiri, M.N. 2007.** Factors influencing the natural regeneration of *Polyscias kikuyensis* Summerh in Nyamweru forest Kikuyu escarpment, Kenya. *African Journal of Ecology*, Vol. 45, No. 3. (September 2007), pp. 242-248.
- Muchori, N; Muchiri, M.N; Mbaya, K; Murungi, J; and Muthee, M. 2008.** Midterm evaluation of Nyayo Tea Zones Development Corporation. , P.O Box 48552-00100, Nairobi.
- Muchiri, M.N., Kamondo, B., Tuwei, P. and Wanjiku, J.2007.** (Eds) Proceedings of the 3rd Scientific Conference, Kenya Forestry Research Institute.
- Muchiri, M.N., Kamondo, B., Tuwei, P. and Wanjiku, J.2005.** (Eds) Proceedings of the 2nd Scientific Conference, 1 to 4 November 2004, Kenya Forestry Research Institute.
- Muchiri, M. N and Gachathi, F.N. 2005.** Trees Inventory and Vegetation Survey In Mukogodo Landscape. Forest Rangeland Environmental Project, Kenya Forestry Research Institute.
- Muchiri, M.N., Watai, K. and Wachira, N. W. 2004.** Densities and Sap Yield of *Aloe secundiflora* in Natural Woodlands in Elangata Wuas in Kajiado District. Kenya Forestry Research Institute Scientific Conference, 1- 4 November 2004, KEFRI, Muguga
- Muchiri, M. N and Chikamai B.N. 2003.** Assessment of Fruits Yield: The Case of Baobab (*Adansonia digitata*) from the Drylands of Kenya, manuscript. 27p.
- Muchiri, M.N. 2002.** *Grevillea robusta* in Kenya. *Journal of Tropical Forest Science*.
- Muchiri, M.N., Miina, J. and Pukkala, T 2002.** Yield of *Grevillea robusta* in the maize fields of Kenya. *Journal of Tropical Forest Science*
- Muchiri, M.N., Pukkala, T. and Miina, J 2002.** Effect of *Grevillea robusta* trees on the growth of maize in the agroforestry fields of central Kenya. *Agroforestry Systems*.
- Muchiri, M.N., Pukkala, T. and Miina, J. 2002.** Optimising the management of maize–*Grevillea robusta* fields in Kenya. *Agroforestry Systems*.
- Muchiri, M.N. 2002.** Forest plantations in Mt Elgon ecosystem. Research Notes No 13, Kenya Forestry Research Institute. 39 p.
- Muchiri, M.N. and P.W. Mukira. 2001.** Field guide manual for forest fires management in Kenya. Research Notes No 12, Kenya Forestry Research Institute. 37p.
- Muchiri, M.N. and F.M Gachathi. 2001.** Indigenous trees inventory and vegetation survey in Mt Elgon Reserve. Research Notes No 11a and 11b, Kenya Forestry Research Institute. 48p and 126p.
- Muchiri, M.N. 2001.** Forest inventory for indigenous forests in Arabuko Sokoke Forest reserve. Research Notes No 10, Kenya Forestry Research Institute. 56p.

- Muchiri, M.N. 1999:** Modelling Studies of Forest Growth and Yield in Kenya. In Proceedings, Growth and Yield Modelling of Tree Plantations in South and East Africa (Editors: Timo Pukkala and Kalle Eerikainen). The University of Joensuu, Faculty of Forestry, Research Notes 97.
- Muchiri, M.N. and Omenda T.O. 1998:** The Role of Agri-Pastoral Systems in the Management of Industrial forest Plantations in Kenya. In Proceedings, Modelling the Growth of Tree Plantation and Agroforestry Systems in South and East Africa (Editors: Timo Pukkala and Kalle Eerikainen). The University of Joensuu, Faculty of Forestry Technical Note No.80.
- Omenda, T.O.; Kimondo, J M. and Muchiri, M.N. 1998:** Establishment of Natural Regeneration Management Trial of *Cupressus lusitanica* in Londiani - Kenya. In Proceedings, Modelling the Growth of Tree plantation and Agroforestry Systems in South and East Africa. The University of Joensuu, Faculty of Forestry Technical Note No.80.
- Muchiri, M.N. and Muturi G.M. 1998:** The State of Forest Plantations Development, Management and Future Focus in Kenya. In Proceedings, Tree Seedling Production and Management of Plantation Forests (Editors: Timo Pukkala and Kalle Eerikainen). The University of Joensuu, Faculty of Forestry, Technical Notes 68.
- Wachiori P., M.N. Muchiri & Mr. M.R. Ngugi. 1997.** Volume equations of most economic and ecologically important trees in Mt. Kenya indigenous forests, Forest Department, COMIFOR Project, Nairobi..
- Wachiori P and M.N. Muchiri. 1997:** Interim field report on establishment of permanent sample plots in Mt. Kenya forest reserve, Forest Department, COMIFOR Project, Nairobi.
- Chagala E., Kimondo J.A., Muchiri M.N., Mwangi L, Kamondo B., Gichora M., Kariuki J. and Chikamai B., 1997.** Proposed future research in industrial forest plantations in Kenya. A paper presented at a National workshop for setting Research Priorities held from 4 - 16 July, 1997, Muguga.
- Omenda T, Muchiri M.N., Ongugo P, and Mutta D.: 1997.** Natural Forests Conservation and Management in Kenya: Present and Future Strategies: A paper presented at National Workshop for setting Research Priorities held from 14 - 16 July 1997, Muguga.
- Muga, M. O., Muchiri, M. N. And Kihara, J. N., 1997.** Effect of spacing on wood quality of *P. Patula* and *C. Lusitanica* grown in plantations. Kenya Forestry Research Institute (Unpublished).
- Muchiri, M.N. 1996:** Preliminary growth and yield of *Vitex keniensis* grown in plantations; In the proceeding of Joint KEFRI/FD conference: National Conference on state of Forest Research and Management in Kenya, 3 - 5 June, 1996, Muguga.
- Orondo, S.O. and Muchiri, M.N. :** Effects of density on growth and yield of *Cupressus lusitanica* in Masaita block- Londiani. Unpublished, KEFRI, 1996.
- Muchiri, M.N., 1995.** Site index and volume functions for *Vitex Keniensis* grown in plantations. KEFRI Unpublished.
- Muchiri, M.N 1996:** Preliminary results of Cypress aphid (*Cinara Cupressi*) infestation on growth of cypress plantations: A paper presented in an International Workshop.
- Muchiri, M.N.:** Current status of forestry data for Sustainable Forest Management: the Kenya Case. A paper presented to IUFRO Symposium, Stellenbosch, Republic of South Africa, 1994.
- Muchiri, M.N. 1991.** Effects of Deviating from Recommended Thinning Practices on Cypress Plantations in Kenya. Journal of Tropical Forestry Science 5(4): 450-464.
- Muchiri, M.N. 1990.** Forest Management priorities in Kenya: a time for reassessment. KEFRI; unpublished

Muchiri, M.N.1985. Research priorities in Forest Fires Management in Kenya: Forest Department; unpublished.

Revised Mt. Kenya forest and Aberdare forest Fire Plans, 1982 and Co-Author: Ontulili Forest Fire Plan, FAO 1981.

OTHER CONTRIBUTIONS

- i) Assisted supervised PhD thesis, “ Statistical modelling of forest cover and carbon sequestration”, Kenyatta University
- ii) Supervised a MSc thesis, “ Expert system for growing *Grevillea robusta* in Kenya” University of Nairobi
- iii) Supervised a MSc thesis, “The role of community forest association in participatory forest management in Timau region, north central Kenya”;
- iv) Supervised a MSc thesis “Factors influencing natural regeneration of *Polyscias kikuyensis* summerh in Nyamweru Forest-Kikuyu Escarpment”; July - December 2004;
- v) Completed two Consultancies for IUCN 2002;
- vi) Completed one Consultancy for FAO, 2002;
- vii) Completed one Consultancy for Birdlife International; 2001;
- viii) Has successfully taught five under-graduate courses in Forest Mensuration - 1992, 1993, 1994, 2002 and three courses in Forest Inventory – 1996, 1999 and 2002 in Moi University;
- ix) Supervised field work and assisted in data analysis for a MSc. Student from Germany on the study, “Growth and General Development Observations of *vitex keniensis* Turill (Meru Oak)”;
- x) Supervised field work and write-up for a project of a fourth year undergraduate student of Moi University on the study, “Effects of Deviating on the recommended Thinning Practises in *Pinus patula* plantations in Kiambu District, July - Dec 1994;
- xi) Trained Forest Department Weather Observers Staff (22) on how to undertake forest fire danger rating, Londiani, 22 - 26 May 1996;

Signature



Date22 May 2011