

CURRICULUM VITAE

PROFESSOR MAXWELL MUDHARA (Ph.D.)

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EDUCATION

2002	PhD. in Food and Resource Economics Specialisation: Agricultural Development <i>University of Florida, Gainesville, Florida, USA.</i>
1993	M. Phil (Agricultural Economics) <i>University of Zimbabwe, Harare, Zimbabwe.</i>
1985	B.Sc. Agriculture Honours (Agricultural Economics) <i>University of Zimbabwe, Harare, Zimbabwe</i>

WORK EXPERIENCE

1 Jan 2019 - Current	Associate Professor in Agricultural Economics School of Agricultural, Earth and Environmental Sciences. University of KwaZulu-Natal, South Africa.
Jan 2007-Current	Director, Farmer Support Group School of Agricultural Sciences and Agribusiness University of KwaZulu-Natal, South Africa
Jun 2011- 2018	Lecturer in Agricultural Economics, in the School of Agricultural, Earth and Environmental Sciences. University of KwaZulu-Natal, South Africa.
June 2005-Dec 2007	Research Director (Centre for Environment, Agriculture, and Development) Deputy Director (Farmer Support Group)

Sept 2002-May 2005 Lecturer
Department of Agricultural Economics and Extension, University of Zimbabwe, Harare.

1990- 2002 Principal Research Officer (Agricultural Economist)
 Farming Systems Research Unit, Department of Research and Specialist Services, Ministry of Lands and Agriculture, Government of Zimbabwe, Harare.

1986 -1987 Agricultural Statistician
Central Statistical Office, Ministry of Finance, Government of Zimbabwe, Harare.

SABBATICAL LEAVE: Jan 2019 to Jun 2019:
 At Dickinson College, Carlisle Pennsylvania, USA

RECENT COMMISSIONED WORK

Country	Date: from (month/year) to	Name/ description of the project
South Africa	2017	Provincial Team Leader. Land administration and management capacity strengthening in district land reform committees in South Africa. Contracted by Human Sciences Research Council (HSRC)
Ethiopia	August 2016	Evaluator: <i>External evaluation of the BSc. program for mid-career extension professionals in Ethiopia.</i> Study commission by Sasakawa Africa Fund for Extension Education (SAFE)
South Africa	August 2015	Evaluator: <i>External evaluation of the sustainable use of natural resources to improve climate change resilience in South Africa: a grassroots women's initiative.</i> Commissioned by OXFAM GB
South Africa	March 2015	Team Leader: <i>An integrated government food procurement model to benefit smallholder farmers.</i> Commissioned by the Smallholder Directorate, Department of Agriculture, Forestry and Fisheries, Government of South Africa
South Africa	March 2015	Team Leader: <i>The contribution made by smallholder producers to the attainment of food security in South Africa.</i> Commissioned by the Smallholder Directorate, Department of Agriculture, Forestry and Fisheries, Government of South Africa

Computer Literacy

I am proficient in the use of the following software: Microsoft Word, Microsoft Excel, Microsoft PowerPoint, SPSS, STATA

Editorial Boards and other appointments

Member of the WRC Reference Group for four projects

2010 – Current: Appointed to the Appeal Board by the Minister of Agriculture Ms Tina Joemat-Pettersson (MP). The Appeal Board deals with appeal lodged by the ARC.

2009 – Current: Appointed to the Editorial Review Board of International Journal of Information and Communication Technology in Research and Development in Africa (IJICTRDA)

Professional Associations

- 2005-2010: Council Members of Southern and Eastern African Associations for Farming Systems Research and Extension (SEAAFSRE)
- 2010-2012: Secretary/Treasurer of Southern and Eastern African Associations for Farming Systems Research and Extension (SEAAFSRE)
- Nov 2012 to present: President-Elect of Southern and Eastern African Associations for Farming Systems Research and Extension (SEAAFSRE)
- Member of Agricultural Economics Association of South Africa (AEASA)

Student Supervision

- 11 PhD Students
- 26 Master Students

PUBLICATIONS

Peer Reviewed Publications

1. Chuma, T., Mudhara, M. and Govereh, J. (2020). The effects of grain storage technologies on maize marketing behaviour of smallholder farmers in Zimbabwe. *Journal of Agriculture and Rural Development in the Tropics and Subtropics (JARTS)*, 121(1): 1-12

2. Chuma, T., Mudhara, M. and Govereh, J. (2020). Factors determining smallholder farmers' willingness to pay for a metal silo in Zimbabwe. *Agrekon* <https://doi.org/10.1080/03031853.2019.1703769>
3. Zikhali, Z.M., Mafongoya, P.L., Mudhara, M., Jiri, O. (2020) Climate Change Mainstreaming in Extension Agents Training Curricula: A Case of Mopani and Vhembe District, Limpopo Province, South Africa. *Journal of Asian and African Studies* 55(1) 44-57
4. Mabuku M.P., Senzanje, A., **Mudhara, M.**, Jewitt, G. and Mulwafu, W. (2019). Strategies for coping and adapting to flooding and their determinants: A comparative study of cases from Zambia and Namibia. *Physics and Chemistry of the Earth* 111 20-34.
5. Rubhara, T. and Mudhara, M. (2019) Commercialisation and its determinants among smallholder farmers in Zimbabwe. A case of Shamva district, Mashonaland Central Province. Submitted to *African Journal of Science, Technology, Innovation & Development (AJSTID)* 11 (6):711-718
6. Dirwai, T.L., Senzanje, A. and **Mudhara, M.** (2019). Water governance impacts on water adequacy in smallholder irrigation schemes in KwaZulu-Natal Province, South Africa. *Water Policy* 21 127–146
7. Dirwai, T.L., Senzanje, A. and **Mudhara, M.** (2019). An Investigation and Condition Assessment of the Existing Water Control Infrastructure in Selected Smallholder Irrigation Schemes: Case of Tugela Ferry Irrigation Scheme and Mooi River Irrigation Scheme, South Africa. *Irrigation and Drainage* 68: 657–668.
8. Yobe, C., **Mudhara, M.**, and Mafongoya, P. (2019). Livelihood strategies and their determinants among smallholder farming households: a case of KwaZulu-Natal, South Africa. *Agrekon* 58(3) 340-353
9. Sharaunga, S. **Mudhara M.** and Bogale, A. (2019). Conceptualisation and measurement of women's empowerment revisited. *Journal of Human Development and Capabilities* 20 (1): 1-25
10. Sinyolo, S., **Mudhara, M.** and Wale, E. (2019). The role of social grants on commercialisation among smallholder farmers in South Africa: Evidence from a continuous treatment approach. *Agribusiness: an International Journal*, 35(3) 457-470
11. Dirwai, T.L., Senzanje, A. and **Mudhara, M.** (2019). Assessing the Functional and Operational Relationships between the Water Control Infrastructure and Water Governance: A case of Tugela Ferry Irrigation Scheme and Mooi River Irrigation Scheme. *Physics and Chemistry of the Earth* 112: 12-20
12. Sinyolo, S., and **Mudhara, M.** (2018). Farmer groups and inorganic fertiliser use among smallholders in rural South Africa. *South African Journal of Science* 114 (5/6) 9 pages

13. Sinyolo, S. and **Mudhara, M.** (2018) The impact of social capital on entrepreneurship among smallholder farmers in rural South Africa. *Journal of Rural Development* 37(3) 519-538
14. Sinyolo, S.A., Sinyolo, S., **Mudhara, M.** and Ndinda, C. (2018) Gender differences in water access and household welfare among smallholder irrigators in Msinga Local Municipality, South Africa *Journal of International Women's Studies* 19(5): 129-146
15. Mabuku M.P., Senzanje, A., **Mudhara, M.**, Jewitt, G. and Mulwafu, W. (2018) Rural households' flood disaster preparedness: A comparative study of cases from Zambia and Namibia. *International Journal of Disaster Risk Reduction* 28: 284-297.
16. Sinyolo, S., and **Mudhara, M.** (2018) Collective action and rural poverty reduction: Empirical evidence from KwaZulu-Natal, South Africa. *Agrekon* 55(4): 436-457
17. Sharaunga, S. and **Mudhara, M.** (2018). Determinants of farmers' participation in collective maintenance of irrigation infrastructure in KwaZulu-Natal. *Physics and Chemistry of the Earth* 105: 265-273
18. Maziya, M., **Mudhara, M.** and Chitja, J. (2017) What factors determine household food security among smallholder farmers? Insights from Msinga, KwaZulu-Natal, South Africa, *Agrekon*, 56(1): 40-52
19. Sinyolo, S., Mudhara, M. and Wale, E. (2017) The impact of social grant dependency on smallholder maize producers' market participation in South Africa: Application of the double-hurdle model. *South African Journal of Economic and Management Sciences (SAJEMS)* 20(1), a1474. <https://doi.org/10.4102/sajems.v20i1.1474>
20. Sinyolo, S., **Mudhara, M.** and Wale, E. (2017) Assessing the impact of social grant-dependency on participation of KwaZulu-Natal rural households in farming: Application of the generalised propensity score method. *Agriculture and Rural Development in the Tropics and Subtropics (JARTS)* 118(2): 233–244.
21. Sinyolo, S., and **Mudhara, M.** (2017). The impact of entrepreneurial competencies on household food security among smallholder farmers in KwaZulu-Natal, South Africa. *Ecology of Food and Nutrition* 57(5):1-23
22. Njoko, S. and **Mudhara, M.** (2017) Determinant of farmers' ability to pay for improved irrigation water supply in rural KwaZulu-Natal, South Africa. *Water SA* 43(2): 226-227
23. Hanyani-Mlambo, B., **Mudhara, M.**, Nyikahadzoi, K. and Mafongoya, P. (2017) Socio-economic differences between innovation platform participants and non-participants: the

case of smallholder dairying in Zimbabwe. *Livestock Research for Rural Development* 29(8) Article 159 (<http://www.lrrd.org/lrrd29/8/bmla29159.html>)

24. Sharaunga, S. and **Mudhara, M.** (2016). The impact of improved 'water-use security' on women's reliance on agricultural incomes in KwaZulu-Natal Province. *Food Security* 8:6 (1039–1052).
25. Muchara, B., Ortmann, G., **Mudhara, M.** and Wale, E. (2016) Irrigation water value for potato farmers in the Mooi River Irrigation Scheme of KwaZulu-Natal, South Africa: A residual value approach. *Agricultural Water Management* 164: 243–252
26. Sinyolo, S., **Mudhara, M.** and Wale, E. (2016). The impact of social grants on the propensity and intensity of use of chemical fertiliser among smallholder farmers in KwaZulu-Natal, South Africa. *Agrekon* 55(4) 436-457
27. Sharaunga, S. & **Mudhara, M.** (2016) Dimensions of empowerment influencing women in KwaZulu-Natal to diversify away from agricultural-based livelihoods. *Agrekon* 55 (103-132))
28. Sharaunga, S., and **Mudhara, M.** (2016) Factors influencing water-use security among smallholder irrigating farmers in Msinga, KwaZulu-Natal Province. *Water Policy* 18(5): 1209-1228
29. Sinyolo, S., **Mudhara, M.** and Wale, E. (2016). To what extent does social grants-dependency affect smallholder farmer's incentives to farm? Evidence from KwaZulu-Natal, South Africa. *African Journal of Agricultural and Resource Economics* 11(2): 154-165
30. Sharaunga, S., **Mudhara, M** and Bogale, A. (2015) Effects of 'women empowerment' on household food security in rural KwaZulu-Natal Province. *Development Policy Review* 34(2): 223–252.
31. Sharaunga, S.; **M. Mudhara** & E.Z. Wale (2015) Factors influencing forest value orientations among rural households in KwaZulu-Natal, South Africa. *Agroforestry Systems* 89(6): 943–962.
32. Sharaunga S, **Mudhara M** & Bogale A (2015). The Impact of 'Women's Empowerment in Agriculture' on Household Vulnerability to Food Insecurity in the KwaZulu-Natal Province, *Forum for Development Studies*, 42 (2): 195-223.

Books/Book Chapters/ Peer Reviewed Working Papers

33. **Mudhara, M.**, Lombard, J., Palmer, A. and Dixon, J. (2020). Perennial mixed and island farming systems: exploring synergies for maximum system productivity. In Dixon, J., Garrity, D.P., Boffa, J., Williams, T.O. and Amede, T. (eds). *Farming systems and food security in Africa: Priorities for science and policy under global change*. Oxon: Routledge
34. Blackie M., Dixon J., **Mudhara M.** Rusike J. Snap S. and Mekuria M (2020) Maize mixed farming system: an engine for rural growth and poverty reduction. In Dixon, J., Garrity, D.P., Boffa, J., Williams, T.O. and Amede, T. (eds). *Farming systems and food security in Africa: Priorities for science and policy under global change*. Oxon: Routledge
35. **Mudhara, M.**, Sharaunga, M. and Sinyolo, S. (2019). Participation of women in smallholder irrigated agriculture: Constraints and opportunities. In Jacobs, P. (Ed.) *Equitable rural socioeconomic change*. HSRC Press, Cape Town. 256 pp.
36. **Mudhara, M.**, Critchley, W., Di Prima, S., Dittoh, S. and Sessay, M. (2016) Community innovations in Sustainable land management: Lessons from the field in Africa. Routledge, London. 230 pp.
37. Critchley, W., **Mudhara, M.** and Sessay, M. (2016) Stimulating community initiatives in sustainable land management: an introduction. In Mudhara, M.; Critchley, W.; Di Prima, S.; Dittoh, S.; Sessay, M. (Eds) *Community innovations in Sustainable land management: Lessons from the field in Africa*. Routledge, London. 230 pp.
38. **Mudhara, M.** and Sessay, M. (2016) SCI-SLM: innovation begins at programme level. In Mudhara, M.; Critchley, W.; Di Prima, S.; Dittoh, S.; Sessay, M. (Eds) *Community innovations in Sustainable land management: Lessons from the field in Africa*. Routledge, London. 230 pp.
39. Sahadeva A., **Mudhara, M.**, Malinga, M. and Shezi, Z. (2016) Stimulating community initiatives in sustainable land management in South Africa. In Mudhara, M.; Critchley, W.; Di Prima, S.; Dittoh, S.; Sessay, M. (Eds) *Community innovations in Sustainable land management: Lessons from the field in Africa*. Routledge, London. 230 pp.
40. Tuijp, W., Dittoh, S., Mahdi, M. and **Mudhara, M.** (2016) Cross-learning with community initiatives. In Mudhara, M.; Critchley, W.; Di Prima, S.; Dittoh, S.; Sessay, M. (Eds) *Community innovations in Sustainable land management: Lessons from the field in Africa*. Routledge, London. 230 pp.

41. Dittoh, S., **Mudhara, M.** and Weobong, A. (2016) Contributing to global environmental benefits. In Mudhara, M., Critchley, W., Di Prima, S., Dittoh, S. and Sessay, M. (Eds) *Community innovations in Sustainable land management: Lessons from the field in Africa*. Routledge, London. 230 pp.
42. **Mudhara, M.**, Critchley, W., Di Prima, S., Dittoh, S. and Sessay, M. (2016) Lessons learnt and conclusions. In Mudhara, M.; Critchley, W.; Di Prima, S.; Dittoh, S.; Sessay, M. (Eds) *Community innovations in Sustainable land management: Lessons from the field in Africa*. Routledge, London. 230 pp.

Conference Presentations/Proceedings

43. Phali, L. and Mudhara, M. Evaluation of farmer participation in the management of Smallholder Irrigation Scheme in KwaZulu-Natal, South Africa. Paper submitted to the Tropentag 2019 conference to be held September 18 - 20, 2019 in Germany.
44. Mudhara, M. (2019) "*Land reform in South Africa and the role of agricultural advisory services*". Paper presented at the 53rd Conference of the South African Society for Agricultural Extension (SASAE) held at Sol Plaatjie University, Kimberley, Northern Cape from 8-11 July 2019.
45. Loki, O., Mudhara, M., Jezile-Pakela Y. and Mkhabela, T.S. (2019) Factors influencing land reform beneficiaries' willingness to pay for extension services in Eastern Cape and KwaZulu-Natal, South Africa. Paper presented at the 53rd Conference of the South African Society for Agricultural Extension (SASAE) held at Sol Plaatjie University, Kimberley, Northern Cape from 8-11 July 2019.
46. Mudhara, M. and Muchara, B. (2018) Inclusive agricultural value chains for smallholder farmers in South Africa: challenges and opportunities for improvement. Rwelamila P.D. *Sustainable African Development and Self Reliance: Building Economic Bridges in a Multi-Polar World*. Proceedings of the 19TH International Academy of African Business and Development Conference Proceedings.
47. Dirwai, T., Senzanje, A. and Mudhara, M. (2018) Water Governance Variables that Impact Water Adequacy in Selected Smallholder Irrigation Schemes in KwaZulu-Natal Province, South Africa. Paper presented at the 19th WaterNet/WARFSA/GWP-SA Symposium held in Livingstone, Zambia, from 31 October – 2 November 2018.
48. Dlangalala, S. and Mudhara, M. (2018) Determinants of farmer awareness of water governance dimensions in smallholder irrigation schemes in KwaZulu-Natal, South Africa.

Paper presented at the 19th WaterNet/WARFSA/GWP-SA Symposium held in Livingstone, Zambia, from 31 October – 2 November 2018.

49. Phali, L. and Mudhara, M. (2018) Evaluation of Water-User Performance in Smallholder Irrigation Schemes in KwaZulu-Natal Province, South Africa: A Stochastic Meta-Frontier Analysis. Paper presented at the 19th WaterNet/WARFSA/GWP-SA Symposium held in Livingstone, Zambia, from 31 October – 2 November 2018.
50. Tibane, Z. and Mudhara, M. (2018) Effects of Governance on Water Security in Smallholder Irrigation Schemes in KwaZulu-Natal, South Africa. Paper presented at the 19th WaterNet/WARFSA/GWP-SA Symposium held in Livingstone, Zambia, from 31 October – 2 November 2018.
51. Hanyani-Mlambo, B.T., Mudhara, M., Nyikahadzoi, K. and Mafongoya P. (2017) The Potential of Innovation Platforms and ICTs in Enhancing Adoption of CSA Innovations in Smallholder Dairying: Evidence from Zimbabwe. Paper presented at the joint conference: 3rd AFAAS Africa-wide Agricultural Extension week and 51st Annual Conference of the South African Society for Agricultural Extension “Scaling up climate smart agriculture; integrating youth, women, and the digital revolution” held at the Tsogo Sun Elangeni & Maharani Hotels, Durban, KwaZulu-Natal. 30 October to 3 November 2017
52. Dirwai, T.L., Senzanje, A. and **Mudhara, M. (2017) Assessing the Relationships Between Water Control Infrastructure and Water Governance in Smallholder Irrigation Schemes in KwaZulu Natal Province South Africa.** Paper presented at 18th WaterNet/WARFSA/GWP-SA Symposium on Integrated Water Resources Development and Management: Innovative Technological Advances for Water Security in Eastern and Southern Africa held at Swakopmund Hotel and Entertainment Centre, Swakopmund, Namibia 25th – 27th October 2017
53. Phali, L. and Mudhara, **M. (2017) Institutional integration and coordination in water governance in Smallholder Irrigation Schemes: Evidence from KwaZulu-Natal Province, South Africa.** Paper presented at 18th WaterNet/WARFSA/GWP-SA Symposium on Integrated Water Resources Development and Management: Innovative Technological Advances for Water Security in Eastern and Southern Africa held in Swakopmund, Namibia 25th – 27th October 2017
54. Mudhara, M., Chirigo, C.K. and Derera, J. (2017) Household level determinants of irrigated green maize production: A case of Makhathini Flats irrigation scheme in South Africa. Paper presented at the IFAMA symposium held at Marriott Biscayne Bay Hotel, Miami, USA, 18-21 June, 2017

55. Mabuku, M.P., Senzanje, A., Jewitt, G.P., **Mudhara, M.** and Mulwafu, W.O. (2016). Flood Disaster preparedness and the socioeconomic impacts: A comparative study of Eastern Zambezi and Mwandi rural communities in Namibia and Zambia. Paper presented at 17th WaterNet/WARFSA/GWP-SA Symposium held at Bingu International Conference Centre, Gaborone, Botswana, 29 - 31 October 2016
56. Mabuku, M.P., Senzanje, A., Jewitt, G.P., **Mudhara, M.** and Mulwafu, W.O. (2016). Flood Disaster preparedness and the socioeconomic impacts: A comparative study of Eastern Zambezi and Mwandi rural communities in Namibia and Zambia. Paper presented at 16th WaterNet/WARFSA/GWP-SA Symposium held at Bingu International Conference Centre, Mauritius, 29 - 31 October 2015

REFEREES:

1. Prof Muthulisi Siwela
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