

Publications

(a) Articles that have already appeared in Refereed Conference Proceedings

1. K.O. Oluwasemire (1999). Some aspects of rainfall trends and their implications on soil and

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crop management practices in northwestern Nigeria. Proceeding of the Soil Science Society of Nigeria Conference (Eds. O. Babalola, U. Umoti and A.E. Isenmila), November 1999, Benin, Nigeria. pp 244-254. 2. Jayeoba, J.J. Owonubi, K.O. Oluwasemire and N.E. Uzokwe (2002). Simulation modeling: A decision support tool for Nigerian agricultural production environment. In: Salako, F.K., S.T.O. Lagoke, A.B.J. Aina, D. Eruvbetine and O.A. Dipeolu (eds.). Enhancing Agricultural Resource Base for Youth Employment, Industrial Development and Export. Proceedings of the 35th Annual Conference of Agricultural Society of Nigeria (ASN) held at the University of Agriculture, Abeokuta, Nigeria. September 16-20, 2001. Pp 179-187. 3. K.O. Oluwasemire, S.O. Alabi and I.Y. Amapu (2002). Nitrogen fertilizer use of maize and ground water pollution under rainfed conditions in the northern Guinea savanna of Nigeria. In: Umoh, U.J., S.E. Yakubu, H.C. Nzelibe, J. Hallandendu, I.H. Anyanwu and E.C. Okolocha (eds.), 1st National Conference on Environmental Degradation: Human Dimensions and Health Implications. Institute for Development Research, ABU, Zaria, Nigeria. 12th-15th November 2002. Pp 130-137. 4. S.O. Alabi, S.O. Ajala, S.G. Ado, F.A. Showemimo, L.O. Omoigui and K.O. Oluwasemire (2002). Improvement of maize for low nitrogen tolerance: Strategy for minimizing potentials for N-pollution in the northern Guinea Savanna of Nigeria. In: Umoh, U.J., S.E. Yakubu, H.C. Nzelibe, J. Hallandendu, I.H. Anyanwu and E.C. Okolocha (eds.), 1st National Conference on Environmental Degradation: Human Dimensions and Health Implications. Institute for Development Research, ABU, Zaria, Nigeria. 12th-15th November 2002. Pp 138-151. 5. K.O. Oluwasemire, S.O. Alabi and S.O. Olaofe (2003). Screening of cotton (*Gossypium hirsutum* L) for tolerance to early season drought. In: Swanepoel A. (Chief Editor), Proceedings of the World Cotton Research Conference-3; Cotton Production for the New Millennium, Cape Town, South Africa. March 9-13, 2003. Pp 743-752. 6. S.O. Alabi, A.A. Adeoti, O. Alabi and K.O. Oluwasemire (2003). Inheritance of resistance in cotton cultivars to the HVI isolate and a mixture of two races of *Xanthomonas campestris* pv *malvacearum* (Smith) Dye in Nigeria. In: Swanepoel A. (Chief Editor), Proceedings of the World Cotton Research Conference-3; Cotton Production for the New Millennium, Cape Town, South Africa. March 9-13, 2003. Pp 275-281. 7. K.O. Oluwasemire (2006). Rainwater composition and acidity at three sites in Northern Nigeria in 2004. In: Umoh, U.J., Oluwasemire, K.O., Yakubu, S.E., Abdullahi, I.O., Umoh, V.J. and E.C. Okolocha (Eds.). Publication in the Proceeding of the 3rd Annual National

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Conference (Awka 2006) of the Society for Occupational Safety and Environmental Health (SOSEH), Nnamdi Azikwe University, Awka, Anambra State, Nigeria. 8th – 11th November 2006. pp. 46-51. 8. H.M. Lawal, J.O. Ogunwole, K.O. Oluwasemire, E.O. Uyovbisere and A.B. Lawal (2007). Effect of biodiversity on

selected soil properties in a managed ecosystem of the Northern Guinea savanna. In: Uyovbisere, E.O., Raji, B.A., Yusuf, A.A., Ogunwole, J.O. Aliyu, L. and Ojeniyi, S.O. (Eds.). Proceeding of the 31st Annual Conference of the Soil Science Society of Nigeria, Ahmadu Bello University, Zaria, Kaduna State, Nigeria. 13th -17th November 2006.pp 323-328. 9. A.R. Sanda, J.O. Ogunwole, K.O. Oluwasemire and B.A. Raji (2007). Effects of drainage water recycle and irrigation scheduling on soil properties and yield of Tomato under a high water table condition in Northern Nigeria. In: Uyovbisere, E.O., Raji, B.A., Yusuf, A.A., Ogunwole, J.O. Aliyu, L. and Ojeniyi, S.O. (Eds.). Proceeding of the 31st Annual Conference of the Soil Science Society of Nigeria, Ahmadu Bello University, Zaria, Kaduna State, Nigeria. 13th -17th November 2006.pp 225-232. 10. B.M. Sani and K.O. Oluwasemire (2007). Water use of maize in response to planting density and irrigation. In: Uyovbisere, E.O., Raji, B.A., Yusuf, A.A., Ogunwole, J.O. Aliyu, L. and Ojeniyi, S.O. (Eds.). Proceeding of the 31st Annual Conference of the Soil Science Society of Nigeria, Ahmadu Bello University, Zaria, Kaduna State, Nigeria. 13th -17th November 2006.pp 239-246. 11. B.M. Sani, K.O. Oluwasemire and M.M. Jaliya (2007). Soil water storage pattern as affected by irrigation regime and maize plant. In: Uyovbisere, E.O., Raji, B.A., Yusuf, A.A., Ogunwole, J.O. Aliyu, L. and Ojeniyi, S.O. (Eds.). Proceeding of the 31st Annual Conference of the Soil Science Society of Nigeria, Ahmadu Bello University, Zaria, Kaduna State, Nigeria. 13th -17th November 2006.pp 252-258. 12. E.O. Uyovbisere, B.A. Raji, K.O. Oluwasemire, W.B. Malgwi, T. Kparamwang, B.D. Tarfa, J.O. Ogunwole,, I.Y. Amapu, E.Y. Oyinlola, D.T. Tagwai, A.A. Yusuf, A.B. Momodu and A.B.I. Igboanugo (2007). Evaluation of the effects of various sand dune stabilization structures on the fertility and productivity of the Gidan Kaura sand dune formation in Sokoto State. In: Uyovbisere, E.O., Raji, B.A., Yusuf, A.A., Ogunwole, J.O. Aliyu, L. and Ojeniyi, S.O. (Eds.). Proceeding of the 31st Annual Conference of the Soil Science Society of Nigeria, Ahmadu Bello University, Zaria, Kaduna State, Nigeria. 13th -17th November 2006.pp 461-475. 13. K.O. Oluwasemire (2008). Contributions of agricultural land use to climate change through

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gaseous emissions. In: Umoh, U.J., Oluwasemire, K.O., Yakubu, S.E., Abdullahi, I.O., Umoh, V.J. and E.C. Okolocha (Eds.). Publication in the Proceeding of the 4th Annual National Conference (Zazzau 2008) of the Society for Occupational Safety and Environmental Health (SOSEH), Ahmadu Bello University, Zaria, Kaduna State, Nigeria. 11th – 14th March 2008. pp. 64-67. 14. K.O. Oluwasemire, A.A. Makinde and O.J. Egwu (2009). Growing Degree Days and Photothermal Units Accumulation of Tomato (*Lycopersicon esculentum*) Genotypes as Influenced by Dates of Sowing. In: Bala, M.G., Auwalu, B.M. and Manga, A.A. (Eds.). Proceeding of the 27th Annual Conference of the Horticultural Society of Nigeria (HORTSON), Royal Tropicana Hotel, Niger Street, Kano, Kano State, Nigeria. 11th -16th October 2009.pp 119-122. 15. S.O. Oshunsanya, K.O. Oluwasemire, Akinawo, O.O. and R.O. Awosanmi (2010). A comparison of field and laboratory saturated hydraulic conductivities of an Alfisol in Ibadan. In: Ojeniyi, S.O. (Editor-in- Chief). Proceeding of the 34th Annual Conference of the Soil Science Society of Nigeria, Institute of Agricultural Research and Training, Ibadan, Oyo State, Nigeria. 22nd - 26th March 2010. pp 97-104. 16. K.O. Oluwasemire, A.C. Anuforum and J.E. Ukeje (2012). Assessment of Meteorological Infrastructure and Agro-Meteorological Data for the Implementation of Weather Based Insurance Scheme in Nigeria .In: Odjugo P.A.O., Asikhia M.O. and Ikelegbe O.O. (Eds.). Proceeding of the 2012 Annual Conference of the Nigerian Meteorological Society (NMetS). Department of Geography and Regional Planning, University of Benin, Edo State, Nigeria. 5th - 9th November 2012. pp 193-207. 17. A.M. Yamusa, K.O. Oluwasemire, R.A. Yahaya and U.D. Idris (2013). Planting date prediction and nitrogen fertilizer effects on the yield and the yield components of sorghum at Samaru Northern Nigeria. In: Adediran, J.A, Saka, J.O., Ibrahim, A.G.,

Adenekan, M.O., Atere, A.O. and Adeyemi, V.A. (Eds.). Proceeding of the 47th Annual Conference of the Agricultural Society of Nigeria (ASN). Federal College of Animal, Health and Production Technology, Moor Plantation, Ibadan, Oyo State, Nigeria. 4th - 8th November 2013. pp 2730.

(b) Patents: None

(c) Articles that have already appeared in learned Journals

18. K.O. Oluwasemire, C.J. Stigter, J.J. Owonubi and S.S. Jagtap (2002). Seasonal water use

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and water productivity of millet based intercropping systems in the Nigerian Sudan Savanna near Kano. *Agricultural Water Management* 56 (3): 207-227. 19. K.O. Oluwasemire (2002) Soil evaporation measurements beneath irrigated crop canopies during dry season. *Journal of Agriculture and Environment* 3 (2): 299-307. 20. K.O. Oluwasemire (2003). Effect of air temperature on soil water content determination by Neutron Thermalization. *Journal of Sustainable Tropical Agricultural Research* 6: 90-95. 21. K.O. Oluwasemire, S.O. Alabi and P.I. Agber (2004). Effect of tillage practices on the yield and fiber quality of some upland cotton (*Gossypium hirsutum* L) varieties. *Savanna* 19 (1): 33-49 22. K.O. Oluwasemire and S.O. Alabi (2004). Ecological impact of changing rainfall pattern, soil processes and environmental pollution in the Nigerian Sudan and northern Guinea savanna agro-ecological zones. *Nigerian Journal of Soil Research* 5:23-31. 23. Stigter Kees, J. Kinama, Yingcui Zhang, K.O. Oluwasemire, Dawei Zheng, K.N. Nawal, Al-Amin and Ahmed el-Tayeb Abdalla. (2005). Agrometeorological services and information for decision-makers: Some examples from Africa and China. *Journal of Agricultural Meteorology* 60 (5):327-330. 24. C.J. Stigter, S.B.B. Oteng'i, K.O. Oluwasemire, N.K.N. Al-amin, J.M. Kinama and L.O.Z. Onyewotu, (2005). Recent answers to farmland degradation illustrated by case studies from African farming systems. *Annals of the Arid Zone* 44 (3& 4):255-276. 25. Jayeoba, K.O. Oluwasemire, I.O. Abiola, N.E. Uzokwe. B.A. Adams, O.R. Ajayi , B. Osikabor and B. Olagunju (2006). Leaf Area Prediction Models for *Treculia africana* (African Breadfruit "AFON") Using Linear Measurements. *Savannah Journal of Agriculture* 1 (1): 27-31. 26. N.M. Danmowa, K.B. Adeoye and K.O. Oluwasemire (2006). Effect of soil compaction and moisture stress on yield parameters of cowpea in two soils in Northern Guinea Savanna. *Biological and Environmental Science Journal for the Tropics* 3 (2): 43-47. 27. Jayeoba, R. Tabo, J.J. Owonubi, V.O. Chude and K.O. Oluwasemire (2006). Evaluation of APSIM to simulate soil water balance of a long-term sorghum based cropping system in Sudan0-Sahelian zone of Nigeria. *Savannah Journal of Agriculture* 1(1): 33-37. 28. B.M. Sani, K.O. Oluwasemire and H.I. Mohammed (2008). Effect of irrigation and plant density on the growth, yield and water use efficiency of early maize in the Nigerian savanna. *ARPN Journal of Agricultural and Biological Science* 3 (2): 33-40. 29. R.B.O. Suleiman, K.O. Oluwasemire and D.M. Kulla (2008). A method for estimating solar radiation from air temperature data in Samaru, Northern Guinea Savanna of Nigeria. *Global*

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Journal of Engineering Research 7 (1): 21-28. 30. I.B. Mohammed, O.O. Olufajo, B.B. Singh, K.O. Oluwasemire and U.F. Chiezey (2008). Productivity of millet/cowpea intercrop as affected by cowpea genotype and row arrangement. *World Journal of Agricultural Sciences* 4 (5): 818-824. 31. R.N. Edoga, K.O. Oluwasemire and C. Anyika (2009). Effect of soil management practices on evapotranspiration of sorghum plot. *Continental Journal of Agricultural Science* (3): 34-37 32. I.B. Mohammed, O.O. Olufajo, B.B. Singh, K.O. Oluwasemire and U.F. Chiezey (2009). Cowpea genotype and row arrangement effects on the productivity and economic returns of sorghum/cowpea intercrop in the Nigerian savanna. *Agricultura Tropica et Subtropica* 43 (3): 145-151. 33. A.M. Yamusa, K.O. Oluwasemire, B.D. Tarfa and R.A. Yahaya (2010). Planting date prediction and nitrogen fertilizer effects on the growth and yield of maize at Samaru, Northern Nigeria. *International Journal of Agriculture* 2 (5): 54-60. 34. C. I. Iloyanomom, E.A. Akinrinde and K.O. Oluwasemire (2011). Response of Cocoa (*Theobroma cacao*) seedlings to varying levels of phosphate fertilizers in Ibadan. *Journal of Soil and Nature* 5 (1): 6-10. 35. A.A. Abdullahi, E.O. Uyovbisere, I.Y. Amapu, K.O. Oluwasemire and N. Abdu (2011). Effects of some micronutrients application on NERICA rice varieties in the savanna. *Nigerian Journal of Soil and Environment Research* 9: 36-43. 36. S.O. Oshunsanya, K.O. Oluwasemire and K.S. Ogunwumi (2012). The use of Vetiver grass slips in removing heavy metal contamination of dumpsite in Ibadan metropolis. *Scholarly Journal of Agricultural Science* 2 (6): 115-118. 37. A. A. Sanni, K.O. Oluwasemire and N.O. Nnoli (2012). Traditional capacity for weather prediction, variability and coping strategies in the front line states of Nigeria. *Agricultural Sciences* 3 (4): 625-630. 38. K.O. Oluwasemire, G.T. Oyerinde and S.O. Oshunsanya (2012). Effects of Water Pollution on Soil Physical and Hydrological Properties of a Valley Bottom at the University of Ibadan, Ibadan, Oyo State, Nigeria. *Nigerian Journal of Ecology* 12:1-12. 39. A.A. Makinde, K.O. Oluwasemire, O.A. Akintola and H.A. Adeniyi, H.A (2012). Seasonal variability and row arrangements effects on the performance of groundnut (*Arachis hypogea* L.) And okra (*Abelmoscus esculentus*) intercrop in a forest-savanna transition zone of Nigeria. *Journal of Applied Agricultural Research* 4 (2):111-120. 40. A.I. Oyeogbe, K.O. Oluwasemire and G.E. Akinbola (2012). Modelling soil water

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characteristics of an inland valley soil. *Indian Journal of Agricultural Research* 46 (4): 317-323. 41. K.O. Oluwasemire (2013). Climate change and its implications on the assessment of planting opportunities in the dry northern savanna. *Ibadan Journal of Agricultural Research* 9: 244-256. 42. A.I. Oyeogbe and K.O. Oluwasemire (2013). Evaluation of SOILWAT Model for predicting soil water characteristics in southwestern Nigeria. *International Journal of Soil Science* 8 (2): 58-67. 43. S.O. Oyatokun, G.O. Adeoye and K.O. Oluwasemire (2013). Influence of N starter dose on yield and N-uptake of two varieties of soyabean varieties in Southern Guinea savanna of Nigeria, West Africa. *Environtropica* 10: 28-36. 44. O.A. Aina-Oduntan, K.O. Oluwasemire, O.J. Oyelowo and A.J. Oloketuyi (2013). Impact of urbanization on greenhouse gases emission and its estimation on Alabubosa Forest Reserve area. *Journal of Agriculture, Forestry and the Social Sciences* 11:91-98. 45. S.O. Oyatokun and K.O. Oluwasemire (2014). Evaluating Starter N application to Soybean with CROPGRO-Soybean Model in the Southern Guinea Savanna Agro-ecology of Nigeria. *Journal of Agricultural Sciences* 6 (8): 83-100. 46. K.O. Oluwasemire and G.O. Odugbenro (2014). Solar radiation interception, dry matter production and yield among different plant densities of *Arachis* spp. in Ibadan, Nigeria. *Agricultural Sciences* 5 (10): 864-874. 47. M.O. Anetor, J.A.I. Omueti and K.O. Oluwasemire (2015). Responsiveness of soil series in Southwestern Nigeria to Single Super Phosphate Fertilization. *Journal of Agricultural Sciences* 7(1):78-87. 48. N.C. Odoh and K.O. Oluwasemire (2015). Evaluation of mycorrhizae potentials in enhancing the growth and yield of *Dioscorea*

rotundata genotypes in moisture stressed soil. *International Journal of Agriculture Innovations and Research* 4 (3): 475-480. 49. I.O. Fademi and K.O. Oluwasemire (2015). Soil physical and hydraulic properties modification under *Arachis* cultivation in the derived savanna agroecological zone of southwestern Nigeria. *Journal of Agriculture, Forestry and the Social Sciences* 14:5270. 50. A.A. Wahab, K.O. Oluwasemire, S.O. Oshunsanya and A.Hamza (2016). Yield and growth responses of sweet corn (*Zea mays saccharata*) to water stress regimes on a loamy sand soil. *Journal of Natural and Applied Sciences* 5 (3): 1-18.

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51. S.O. Oshunsanya, K.O. Oluwasemire and O.J. Taiwo (2017). Use of GIS to delineate site-specific management zone for precision agriculture. *Communication in Soil Science and Plant Analysis* 45 (5): 565-575. 52. S.O. Oyatokun, B.N. Okafor, K.O. Oluwasemire and G.O. Adeoye (2017). Properties of some soils developed from basement complex parent materials in a savanna zone of Nigeria and their effect on soybean (*Glycine max*) production. *American-Eurasian Journal of Agricultural and Environmental Science* 17(4): 280- 283. 53. Oluwasemire, K. O. and Oladuji, Y. F. (2018). Development and yield of two okra (*Abelmoschus esculentus* L. Moench) cultivars under limiting soil water conditions on a sandy loam. *Nigerian Journal of Ecology*, 17 (1): 14- 28.. 54. Fagbayide, S. D., Ewemoje, T. A. and Oluwasemire, K. O. (2018). Yield, growth and water use efficiency of drip irrigated *Jathropha curcas* L. in South Western Nigeria. *Journal of Sustainable Technology*, 9 (1): 98-109. 55. Oni, F. G. O and Oluwasemire, K. O. (2018). Phenotypic stages of some improved varieties of groundnut (*Arachis hypogaea* L) in the humid South Western Nigeria. *Journal of Biology, Agriculture and Healthcare*, 8 (24): 54-59. 56. Oladitan Titilayo, Oluwasemire Olatunji and Agele Samuel (2020). Influence of Manuring on Growth and Yield of Tomato Varieties in Akure, a Rain Forest Zone of South West Nigeria. *Journal of Experimental Agriculture International*, 42(9): 147-157. 57. AyanfeOluwa, O.E., AdeOluwa O.O., Oluwasemire, K.O. and Awodoyin, R.O. (2021). Performance of an accelerated compost as influenced by ecological zones: A case study of derived savannah and rain forest in Nigeria. *Eurasian Journal of Soil Science*, 10 (2): 111 - 122 (d) Books, Chapters in Books and Articles already accepted for Publication

(e) Chapters in Books already published

58. K.O. Oluwasemire, J.J. Owonubi, E.O. Oladipo, S.S. Jagtap and C.J. Stigter (1995) Microclimate improvement and soil protection aspects of intercropping with a leguminous (cover) crop. In: The TTMI-project and the "PICNIC" model: an internal evaluation of approaches and results and of prospects for TTMI-units (Eds. C.J. Stigter, F.J. Wang'ati, J.K. Ng'ang'a and D.N. Mungai), Wageningen Agric. University, The Netherlands. Chapter 26. pp 212-223. ISBN: 90-6754-403-5.

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59. Tunji (K.O.) Oluwasemire, C.J. Stigter and J.J Owonubi (2010). Improved design of millet based intercropping systems using on-station field research and microclimate manipulation (Nigeria). In: Kees Stigter (Ed.), *Applied Agrometeorology*. Springer, Heidelberg, Germany. xxviii + 1101 pp. Pg 168-173. ISBN: 978-3-540-74697-3.

(f) Technical Reports and Monographs

60. K.O. Oluwasemire (2001). Global Warming Effects on Tropical Agriculture. NAQAS Newsletter Vol.1, No. 2, Feb. 2001. pp 7-9. 61. N.O. Nnoli, S.S. Jagtap, K.O. Oluwasemire, S.A. Sanni, S.A. Ibrahim, J.M. Jibrin, S. Adebola, A.O. Ekeke, A.I. Yakubu, S. Miko, G.O. Ajaezi, J.B. Omotosho, B. Akwarandu, S.K. Muyiolu, J.U. Kemakolam, M.A. Ogunwale and V.F. Adejokun (2006). Strengthening the capacity for providing reliable planting date forecast in Nigeria. Report submitted to the International START Secretariat for grant US NSF (GEO-0203288), Washington, DC, USA. 40pp.

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