



**FEDERAL UNIVERSITY OF AGRICULTURE, ABEOKUTA (FUNAAB)
COLLEGE OF ENGINEERING (COLENG)
DEPARTMENT OF AGRICULTURAL & BIORESOURCES ENGINEERING**

ACADEMIC STAFF PROFILE: ADEWUMI JOHNSON KAYODE – SP.1125

i Brief Biography

Professor Adewumi had his primary education at St. Luke's L.E.A. Primary School between 1963 – 1970 (Primary 1 -7) Obbo-Aiyegunle in Kwara State, Proceeded to Baptist Grammar School (IBGS), Igbaja, Kwara State between 1971 – 1975 where he obtained West Africa School Certificate in 1975. Prof Adewumi proceeded to Kwara State College of Technology (School of Basic section) between 1975-1977 with Kwara State Scholarship. After completion of his A/Level, Professor Adewumi proceeded to Ahmadu Bello University, Samaru-Zaria for his Bachelor of Engineering Degree in Agricultural Engineering on Kwara state Scholarship between 1977-1980 and graduated with a Second Class honors (Upper Division) in June 1980. Between 1980-1981, he proceeded on his NYSC in Ondo State and was posted to Owo, Ondo State Ministry of Agriculture, Engineering Division and completed his NYSC in August 1981. Professor Adewumi joined his former Department as a graduate assistant in 1982 and enrolled immediately for his Master Degree Programme in Soil & Water Engineering which he completed in 1985. Professor Johnson Kayode Adewumi holds a Doctoral Degree (1998) in Agricultural Engineering with specialization in the broad area of Soil and Water Engineering –(Irrigation, Hydrology, Soil and water conservation – Erosion, Drainage) and an Advance postgraduate diploma in International Irrigation & soil Management at volcanic center, Bet – Dagan, Israel (1986).

ii Passport –sized Photograph



iii Personal Information

Professor Adewumi will be 66yrs old in November, 2023 and is happily married with four children (37yrs, 33yrs, & 31yrs respectively).

- iv. **Department:** Agricultural & Bioresources Engineering (ABE), College of Engineering.
- v. **E-MailAddress:** adewumijk@funaab.edu.ng, jjkadewumi@gmail.com,
jjkadewumi@yahoo.com.
- vi. **Phone Number:** +2348037035908, +2347059338177, +2347019453409.
- vii. **Rank: Professor**
- viii. **Designation: None**
- ix. **Researchgate Address:** johnson20182
- x. **Linkedin Address:** taiyesamson7
- xi. **Google Scholar Profile:**Adewumi Johnson Kayode-(<https://Scholar.google.com>–Profile)
- xii. **ORCID Number: 0000-0001-7569-9272**
- xiii. **Qualification:** B.Eng (Agric Eng), M.Sc (Agric Eng), Ph.D. (Soil & Water Engineering), Advance Post Graduate Diploma (International Irrigation & Soil Management).
- xiv. **Membership of Professional Bodies:**
 - i. Chartered Engineer (C.Eng) of Engineering Council U.K. (R. 468862)
 - ii. Member Council for the Regulation of Engineering Practice in Nigeria (COREN) (R. 12,222)
 - iii. Member (MIAGRE) The institution of Agricultural Engineer, U.K.
 - iv. Member, International Erosion Control Association (IECA) U.S.A.
 - v. Member, Nigerian Institution of Agric. Engineers (MNIAE (M. 162))
 - vi. Member, Nigerian Society of Engineers (MNSE) M. 10,690
 - vii. Member, Nigerian National Committee for UNESCO-IHP
- xv. **Award Received:**
 - Vision Promoter Award in Recognition of outstanding effort in expanding RCCG Apapa Family Vision in Ogun State. 4th August, 2012
 - Vice Chancellor’s Productivity Award. FUNAAB, Abeokuta. 2014.
 - Nigerian Engineering Student’s Association (FUNAAB CHAPTER) – Dean of Engineering Award of Excellence in Recognition of Meritorious Service. 2015
 - Nigerian Engineering Student’s Association (FUNAAB CHAPTER) – Dean of Engineering Award of Appreciation in recognizing of outstanding Hardwork. 2016
 - National Association of Engineering Craftmen – Award of Appreciation 2017
 - Vice Chancellor’s award of Honor as the 76th Inaugural Lecture. FUNAAB, Abeokuta. 2023.
- xvi. **Research Conducted:**
RESEARCH CONDUCTED/GRANT ATTRACTED
 - Water Harvesting in Western and Central Africa FAO 1993-1995 \$6,500.00
 - Review of Public Irrigation Sector of Nigeria (North West Zone) – 2003-2005 (N10m)
 - DFID/Propcom – Support For Small Rice Threshers In Nigeria (2007) Team Leader (N2m)
 - Affordable Indigenous Drip Irrigation System ARCN – 2010-2013 (N36m). Team Leader
 - National Water Resources Capacity Building Network (South West Zone). Coordinator 2009-2019.

- Farming Systems Assessment of Water Harvesting in Western Africa: The Nigeria Case. A Commission Technical report submitted to FAO regional office for Africa, Accra-Ghana. (1999)
- “Review of the Public Irrigation Sector in Nigeria” Report Submitted to ENPLAN GROUP, Abuja. (North West Zone). Commission study by Food and Agricultural Organization of the United Nations. (2004 -2005)
- “Dryland Management Practices in Nigeria with lessons from other Sub-Sahara – African Countries: (1999)
- Utilization of water use in Zobe dam Irrigation Project in Dutse- Mai, Katsina State (Pilot Scheme project) under Irrigation Research Programme. ABU, ZARIA (1987)
- Analysis of Soil and Water for Irrigation purposes in Zobe dam Irrigation Project in Dutse-mai, Katsina State (Pilot Scheme Project) under Irrigation Research Programme. ABU, ZARIA. (1988)
- Farmers managed Irrigation Project” (The project is funded by the Ford Foundation for some selected parts of Northern Nigeria) under Irrigation Research Programme. A.B.U, Zaria (1988)
- Adoption of a suitable Erosion Model for Estimation of soil Loss in Samaru – Zaria. A Research Attachment at Cranfield University, Silsoe Campus, Bedford, England, U.K. (1994)
- “Estimation of Water Erosion of a Nigerian Guinea Savanna Soil”.Department of Agricultural Engineering, Ahmadu Bello University, Zaria.
- Irrigation Efficiencies at Kadawa Sector of Kano River Basin. Department of Agricultural Engineering, Ahmadu Bello University, Zaria.
- Re-calibration of the Blaney - Criddle Evapotranspiration equation for four selected crops at Samaru. Department of Agricultural Engineering, Ahmadu Bello University, Zaria.

xvii. Conferences Attended:

International conferences

- First International Conference Organised in the College of Engineering, FUNAAB, Abeokuta. 2016.
- First Regional Symposium on farming system approach to research extension and training in Africa, Nairobi, Kenya 31st – 5th November, 1993.
- Farming Systems Assessment of Water Harvesting in Western and Central Africa Held at Niamey, Niger Republic, Organized by FAO regional Office for Africa, Accra – Ghana. November 25 – 30 1999.
- First West African Society of Agricultural Engineering International Conference held at Yar’adua conference center, Abuja 19th – 31st October 2002.
- First General Meeting/workshop of West Africa Net Work for Capacity Building in IWRM. Held at Erata Hotel, East Legon. Accra – Ghana. 25th – 26th 2007

Local Conferences

- Nigeria Society of Engineer’s Conference Tagged Strategies for Promotion of Sustainable Driven Economy in Nigeria. HARMONY 2012. Kwara Hotel, Ilorin. Kwara State. (2012)

- 23rd Annual Conference of the Soil Science Society of Nigeria Faculty of Agriculture, Usmanu Danfodiyo University, Sokoto. 2 – 5 March 1997.
- 15th annual conference of the NSAE held at University of Maiduguri, Maiduguri. 1991
- Farmers Participation in Irrigation Development and management in Nigeria, held at the Institute for Agricultural Research Conference Room, A.B.U. Samaturu – Zaria Nigeria. May 7 – 8 1990.
- Nigeria Society of Agricultural Engineers held at NAERLS Conference hall, 1989. Department of Agricultural Engineering, Ahmadu Bello University, Zaria.
- Workshop on Irrigation Water Measurement Held in the Conference Hall NAERLS, A.B.U. Zaria. August 10 – 12 1989.

- 9th Annual Conference of the Nigeria Society of Agricultural Engineers, Concords Hotel, Owerri, Imo State. 1985
- 18th National Society of Engineering Conference and Annual General Meeting, Owerri, 2010
- 17th Engineering Assembly. International Conference Center, Abuja. 23rd – 24th Sept, 2008
- Regional ToT on Economic and Financial Techniques in IWRM. 14th – 20th December, 2008. Held at National Water Resources Institute, Mando Road, Kaduna. Nigeria.
- National Society of Engineering Conference and Annual General Meeting, Gateway 2006. Held at Gateway Hotel, Abeokuta. 4th – 8th December 2006.
- 1st National Water and Sanitation Forum. Held at Abuja Sheraton Hotel and Towers. 29th August – 1st September 2006.
- 15th Engineering Assembly. International Conference Center, Abuja. 25th – 26th July, 2006
- The 7th International Conference and 28th Annual General Meeting of the Nigerian Institution of Agricultural Engineers. November 6th – 10th 2006. NAERLS. Zaria
- 24th Annual Conference of Nigerian Society of Agricultural Engineers held at Federal Polytechnic, Bauchi, Bauchi State. 7th – 11th September 1999.
- 23rd Annual Conference of the Soil Science Society of Nigeria Faculty of Agriculture, Usman Danfodiyo University, Sokoto, 2 – 5 March, 1997.
- 15th Annual Conference of the NSAE held at University of Maiduguri, Maiduguri, September 1991.
- National Workshop of Farmers Participation in Irrigation Development and Management in Nigeria, Held at IAR Conference Room, A.B.U., Zaria May 7 – 8, 1990.
- National Irrigation and Workshop on Irrigation Water Measurement Held in the Conference Hall NAERLS, A.B.U Zaria. August 10 – 12 , 1989

- Nigeria Society of Agricultural Engineers 12th Annual Conference held at NAERLS Hall, September 1989. Department of Agricultural Engineering A.B.U. Samaru, Zaria.
- Nigeria Society of Agricultural Engineering, 9th Annual Conference of the Nigeria Society of Agricultural Engineers Concord Hotel, Owerri, Imo State. September 1985.
- Soil and Water Management Symposium / 8th Annual Conference of the NSAE Dubar Hotel, Kaduna, November 26 – 30, 1984.
- The 4th Annual Conference of the Nigerian Society of Agricultural Engineers, University of Ibadan, Ibadan, Oyo State. August 27 – 28, 1980.

xviii. Publications:

1. **Adewumi, J.K.** and Duru, J.O. (1984). ‘Consumptive Use coefficients for Selected Crops in Samaru Northern Nigeria. Nigerian Journal of Engineering Vol. II No. 1 pp. 1 – 8.
2. Odunze, A.C., K.B. Adeoye, J.J. Owonubi, **J.K. Adewumi**, V.O. Chude and E.N.O. Iwuafor (1997). Rainfall Characteristics and soil tillage timing for Rain fed crop production in the Northern Savanna of Nigeria. ITC Journal (1997 – 3/4), Geo-information for Sustainable Land Management (SLM), Pp 59 – 65.
3. **Adewumi, J.K.** (2000). “Soil Loss Tolerance Limit for Effective Conservation Measure in Samaru, Northern Nigeria”. Savanna Journal of Agricultural Mechanization. Vol. 2. No. 1. 2000 pg 23 – 27.
4. **O.J. Mudiare**, and **J.K. Adewumi**, (2000). “Estimation of infiltration from field – measured sorptivity values”, Nigerian Journal of Soil Research. Vol. 1 pp. 1 – 3, 2000.
5. **Adewumi, J.K.** (2001). Soil detachment by raindrop impact: Comparison of predictive models. Savanna Journal of Agricultural Mechanization. Vol. 3, No. 1. ISSN: 1 – 596 – 153 – 2. Pp. 25 – 30.
6. **Adewumi, J.K.**, O.J. Mudiare and J.J. Owonubi. (2001). Soil Erosion Prediction in Samaru – Zaria.: Comparison of two predictive models. Savanna Journal of Agricultural Mechanization. Vol. 3 No. 1 ISSN: 1 – 596 – 153 – 2, pp 9 – 13.
7. Abubakar, S.Z., M.K. Othman, O.J. Mudiare and **J.K. Adewumi** (2001). Hydraulic Functioning of Main System of Hadejia – Valley – Irrigation – Project and Effective User Participation in Operation and Maintenance. Savanna Journal of Agricultural Mechanization. Vol. 3. No. 1 pp 19 – 23. ISSN: 1 – 596 – 153 – 2
8. Abubakar, M.S., A. Ahmed, O.J. Mudiare and **J.K. Adewumi** (2001). Hydraulic Performance Evaluation of the distribution system of Hadejia Valley Irrigation Project. Savanna Journal of Agricultural Mechanization. Vol 3. No. 1 pp 1 – 7 ISSN:- 596 – 153 – 2.

9. **Adewumi, J.K.** and A. Kolawole. (2002). Water Harvesting for dry land Farming. "ZARIA GEOGRAPHER". Journal of Environmental Studies and Human Development: New Series. Vol. 15. No. 1. pp 24 – 33. ISSN: 0795 – 7599
10. Othman, M.K., A. Ahmadu, **J.K. Adewumi** and S. Miko (2002). The Performance of Some Irrigated Vegetable Crops under Mulching Condition in "Fadama" Area of Semi-Arid Region. Nigeria. Savanna Journal of Agricultural Mechanization. Vol. 4. No. 1 pp 21 – 25. ISSN: 1 – 596 – 153 – 2.
11. Mofoke, A.L.E., **J.K. Adewumi**, O.J. Mudiare and A.A. Ramalan (2004). Design Construction and Evaluation of An Affordable Continuous – flow Drip Irrigation System". Journal of Applied Irrigation Science, Germany. Vol. 39. No. 2/2004, pp. 253 – 269. ISSN 0049 – 8602. <http://www.dlg-verlag.de>
12. Mofoke, A.L.E., **J.K. Adewumi**, O.J. Mudiare (2004). "Structuring and Characterisation of the medical infusion set as emitter for low – cost drip irrigation system". Arid Zone Journal of Engineering, Technology and Environment. University of Maiduguri, Nigeria. Vol. 4, October 2004. Pp 1 – 15
13. Egharevba, N.A., O.J. Mudiare and **J.K. Adewumi** (2005). Crop Coefficient of Corn (zea mays) as influenced by water table depths under green house culture, Nigerian Journal of Engineering. Vol. 12. No. 2, 2005. Pp 54 - 59
14. Mofoke, A.L.E., **J.K. Adewumi**, F.E. Babatunde, O.J. Mudiare and A.A. Ramalan (2006). Yield of tomato grown under continuous-flow drip irrigation in Bauchi state of Nigeria. Journal of Agricultural Water Management 84 (2006) 166 – 172. UK: www.elsevier.com/locate/agwat
15. Sobowale, A., **J.K. Adewumi**, and M. Onwuka, (2008). Productivity of some water wells in the Alluvial Sediments of Lake Chad. ASSET Journal, Series B, Volume 7, No. 1 (2008) pp. 72 - 79
16. Sobowale, A., **J.K. Adewumi**, Otun, J.A. and Adie, D.B. (2008) Water Resources Management of Jamaare And Misau Rivers Sub-Catchment of Komadugu Yobe River Basin, Nigeria. Nigerian Journal of Engineering, Ahmadu Bello University, Zaria Vol. 14, No 2. Pages 54 - 59 2008.
17. Mofoke, A.L.E., F.E. Babatunde, S.M. Musa, **J.K. Adewumi** and O.J. Mudiare (2008). Analysis of the Hydraulic Performance of a Continuous-flow Drip Irrigation System Tested on a Tomato Field in Bauchi, Nigeria. Arid Zone Journal of Engineering, Technology and Environment. Vol. 6, pp 10-21
18. Otun, J.A and **J.K. Adewumi**. (2009). "Rainfall Variability and Drought Inference in Sudano-Sahelian Region of Nigeria." ASSET Journal, (an international journal) Series B, Volume 8, No 2, (2009).pages 164-175 Accepted for Publication, 4th July, 2009.

- 19 Sobowale, A., **J.K. Adewumi**, J.A. Otun and D.B. Adie (2010): “Water Resources Potentials of Hadejia River Sub-catchment of Komadugu Yobe River Basin in Nigeria”, Agric. Eng. International: CIGR Journal, 2010, 12(2): pages 1-6. Open access at <http://www.cigrjournal.org> or <http://www.cigrjournal.org/index.php/Ejournal/article/view/1065>
- 20 Otun, J.A. and **J.K. Adewumi**. (2010). Analysis of Dry Spells and its Application to Crop Planning in the Sudano-Sahelian Region of Nigeria. Arid Zone Journal of Engineering, Technology and Environment; August, 2010. Vol. 7, pp. 34 – 43.
- 21 Musa, J.J., **J.K. Adewumi**, A.P. Adeoye, I.H. Mustapha and E.S. Adebayo (2011). Physicochemical Assessment of Groundwater as a Source of Domestic Water Use in Some Selected Settlements in Minna, Niger State. The IUP Journal of Science & Technology, Vol. 7, No. 2, 2011.
- 22 Musa, J.J., **Ode, O. G; Anijofor, SC and Adewumi, JK.** (2011). “Quality Evaluation of Household wastewater for irrigation”. Journal of Applied Sciences & Environmental Management (JASEM). ISSN – 1119 – 8362. (2011). <http://www.ajol.info/jasem>.
- 23 **Adewumi J.K.**, Sobowale, A, and Kolawole, A. (2011). Rain water harvesting and farming system productivity in drought prone areas of Nigeria. European Journal of Social Science. Vol. 42. (EJSS) [www.http://eurojournals.com/1htm](http://eurojournals.com/1htm) .
- 24 Musa, J.J., **J.K. Adewumi**, J. Ohu and G.A. Bolaji (2011). “Seasonality Effect of Infiltration Rates of some Selected Soil Types of Soil in North Central Area of Nigeria”. Journal of Biodiversity and Ecological Sciences (JBES). No.1 Issue 4. Pp. 342 – 351. ISSN: 2008-9287. Fall 2011 JBES. info@jbes.ir
25. Dada, P.O.O., Salako, F.K. and **Adewumi, J.K.** (2011). “Maize Root Characterization Using Image Analysis as Affected by Topsoil Removal and Soil Strength”. Transnational Journal of Science and Technology. March edition, Vol. 2, No 2. Pp. 80-92.
- 26 **Musa, J.J., J.K. Adewumi** and J. Ohu (2012). “Comparing Developed Manning Coefficients for Some Selected Soils of Gidan Kwano with Existing Values”, The Electronic Journal of Geotechnical Engineering (EJGE), Vol. 17 (2012), Bund. V. ISSN 1089-3032. Pp 2999 – 3008.
- 27 Adekunle, A.A., **J.K. Adewumi**, N.J. Bello and J.O. Akinyemi (2012). “Stromwater Characteristics on 3rd Mainland Bridge Lagos, Nigeria”. Journal of Applied Technology in Environmental Sanitation. Vol. 2, No. 2. Pp.
- 28 Musa, J. J., **Adewumi, J. K.**, Ohu, J. and Bolaji, G. A. (2012): Effect of Surface Runoff on Sediment Yield of Some Soils in Gidan Kwano Area of Niger State Nigeria. *International Journal of Life Science Biotechnological and Pharm Research*. Vol. 1 (2): 86-94. Published in Hyderabad India
- 29 Musa, J. J., **Adewumi, J. K.**, and Ohu, J. (2012): Development of an

- Empirical Hydrologic Model to Determine Manning and Runoff Coefficient for Some Selected Soils of the Permanent Site of Federal University of Technology, Minna, Nigeria. *Journal of Science, Technology, Mathematics and Education (JOSTMED)* pp. 165-171. Published in FUT Minna
30. Oladipo, I.O. and **J.K. Adewumi** (2013). Computer Aided Drip Irrigation Design for Nigerian Agricultural Environment. *Open Access Scientific Reports*. 2: 638. Doi:10.4172/scientificreports.638. Vol. 2 Issue 2. 2013. Pp. 1-4
 31. **Musa, J.J., J.K. Adewumi** and J. Ohu (2013). "Comparing Developed Runoff Coefficients for Some Selected Soils of Gidan Kwano with Existing Values", *International Journal of Basics and Applied Sciences*. Vol. 01, No 03, Jan. 2013. Pp 473-469. P-ISSN: 2301-4458; E-ISSN: 2301-8038.
 32. Oladipo, I.O., **Adewumi, J.K.**, Dairo, O.U., Adejuyigbe, S.B. and Ajayi, E.A. (2013): Performance Evaluation of Dry Season Okra under Sawdust and Trash Mulch Cover Treatments in Southwestern Nigeria. *Open Journal of Soil Science*. Vol.3. pp. 337-341. Published Online December 2013. www.scirp.org/journal/ojss
 33. Sobowale A., **Adewumi, J.K.**, Ogunniranye, G.B. and Sajo, O.S. (2014): Analysis of Soil Water Dynamics in a Tropical Rain Forest Soil (Arinic lixisol), Abeokuta, Nigeria. *Journal of Agricultural Science and Technology A.4* (2014). Vol. 4, No 6. (Serial Number 38) pp. 494-503. David Publishing.
 34. **Adewumi, J.K.**, Sobowale Adeyinka and Are Kolawole (2015): Influence of Water Harvesting Practices on Farmer's Productivity in Semi-Arid Areas of Nigeria. *Journal of Agricultural Science and Technology A.5* (2015). Vol. 5, No 1. (Serial Number 43) pp. 8-14. David Publishing.
 35. Sobowale A., **Adewumi, J.K.** and Bamgboye, O.A. (2015): Smoting Integrated Water Resources Mmanagement in South West Nigeria: The Need for Collaboration and Partnership. *Nigerian Journal of Technology (NiJoTech)*. Vol. 34, No 2 April 2015. Pp. 414-420. ISSN: 1115-8443. www.nijotech.com
 36. Ola, I.A., Dada, P.O.O., Adeosun, O.J., Ismaila, S.O. and **Adewumi, J.K.** (2015): Development of an Indigenous Environmentally Friendly Refuse Picker. *Journal of Natural Sciences, Engineering and Technology (Formerly ASSET: an International Journal (Series B))*. JNSET 095. ISSN: 2277-0593; Online 2315-7461. www.funaab.edu.ng
 37. Musa, J.J., Mohammed, A.S., **Adewumi, J.K.**, Dada, P.O.O. and Kuti, A.I. (2017). Short Term Analysis of quality parameters of selected deep wells: A case study of an Agrarian Community in Bosso Local Government Area, Niger State. *FUW Trends in Science & Technology Journal*. www.firstjournal.com. Federal University of Wukari, Nigeria. Vol.2, No 18, pp 532-536.

38. Omofunmi, O.E., ***Adewumi, J.K.***, Adisa, A.F. Alegbeleye, S.O. (2017). Development of a Paddle Wheel Aerator for Small and Medium Fish in Nigeria. *Agricultural Mechanization in Asia, Africa and Latin America*. Vol. 48. No 1. Pp 22 – 26.
39. Komlan Koudahe, ***Adewumi, J.K.***, Awokola, O.S., Adekunle A. A. (2017). Trend Analysis in Standard Precipitation Index and Standardized Anomaly Index in the Context of Climate Change in Southern Togo. *Atmospheric and Climate Sciences*. Vol. 7. Pp 401 – 423.
40. Dada, P.O.O., Ohu, J.O., Musa, J.J. and ***Adewumi, J.K.*** (2018). Effects of Load Application and Organic Materials incorporation on Physical Properties of Sandy Loam Soil in Southwestern Nigeria. (*International Soil and Water Conservation Research*. Elsevier.).
41. Koudahe, K., Koffi, D., ***Kavode Johnson Adewumi***, Awokola, S.O. and Adebola, A.A. (2018). Impact of Climate Variability on Crop Yields in Southern Togo. *Environment Pollution and Climate Change*, an Open access Journal. Vol.2, Issue 1.Pp 1-9.
42. Komlan Koudahe, Koffi Djaman and ***Johnson K. Adewumi*** (2018).” Evaluation of the Penman–Monteith reference evapotranspiration under limited data and its sensitivity to key climatic variables under humid and semiarid conditions”. *Modelling Earth Systems and Environment*. Vol 4, No. 3. Pp 1239 – 1257. ISSN 2363-6203
43. J.J. Musa, ***J.K. Adewumi***, P.O.O. Dada, I.A. Kuti, A.S. Mohammed and T.N. Eze (2018). ‘Determination of Soil Erodibility Indices for Selected Soils in Southern Guinea Savanna Ecological Zone of Nigeria Under Rainfed Agricultural Practice’. *FUW Trends in Science & Technology Journal*. www.ftstjournal.com. Pp.652-657. Vol.3 No 2. 2018. e-ISSN: 24085162, p-ISSN: 20485170.
44. Adeyanju, O.R., Dada, P.O.O., Adesodun, J.K., Adeosun, O.J. and ***Adewumi, J.K.*** (2018). Evaluation of Soil and Nutrient Losses from Cassava Manually Harvested in Odeda Local Government Area, Ogun State, Nigeria. *Umudike Journal of Engineering and Technology (UJET)*, Vol.4 No.2. Pp. 97-103. www.ujetmouau.com
45. Dada, P.O., Musa, J.J., ***Adewumi, J.K.*** and I.A. Ola (2019). Cattle Treading Effects on Soil Physical and Hydraulic Properties in Abeokuta. Southwestern Nigeria. *FULafia Journal of Science & Technology*. Vol. 5 No 2. June 2019 Pp 12-17
46. Musa, J. J. , ***Adewumi, J. K.*** , Otuario, E. A. and Musa, M. T. (2019). Effect of Water Stress on the Yield of Selected Vegetable Crops in the Southern Guinea Savannah Ecological Zone of Nigeria. *Open Access Library Journal*, 6, 1-12, e5938. doi: <http://dx.doi.org/10.4236/oalib.1105938>.

47. Musa, J. J., Dada, P.O.O., **Adewumi, J.K.**, Akpoebidimiyen, O.E., Musa, E.T., Otache, M.Y. and Yusuf, S. (2020). Fish Pond Effluent Effect on Physico-chemical Properties of Soils in Southern Guinea Savanna, Nigeria. Open Access Library Journal, 7: 1-16, <https://doi.org/10.4236/oalib.1105990>
48. Musa, J. J., Akpoebidimiyen, O. E., **Adewumi, J. K.**, Eze, P. C., Adesiji, R., Gupa, Y. U. (2020). Influence of Soil Bulk Density and Porosity on Soil Hydraulic Conductivities for Selected Land Management Practice in North-central Nigeria. *International Journal of Agricultural and Environmental Sciences*. Vol. 5, No. 1, pp. 1-7.
49. Dada, P. O. O., Musa, J. J., **Adewumi, J. K.**, Ohu, J. O., and Akintola, A. (2020). Comparison of Infiltration Rate and Hydraulic Conductivity of Three Dominant Soil Series for Irrigation Planning in Federal University of Agriculture, Abeokuta Southwestern Nigeria. *Journal of Engineering Research*, Volume 25, Number 4, 1-10.
50. **Adewumi, J. K.**, Musa, J., Adeosun, O., Akpoebidimiyen, O., Adekunle, A. and Adewumi, B. (2020). Soil Detachment with Organic Mulching Using Rainfall Simulator in Comparison with a Short Duration Natural Rainfall for Effective Soil Conservation. *Journal of Environmental Protection*, **11**, Pp 457-469. doi: [10.4236/jep.2020.116027](https://doi.org/10.4236/jep.2020.116027).
51. Dada, P.O.O., J.J. Musa, O.O. Olla, J.O. Ohu and **J.K. Adewumi** (2020). Effects of Tractorization and Organic Manure on Physical Properties of Sandy Loam Soil in Abeokuta, Nigeria. *Nigerian Journal of Technological Development*. Vol. 17, No 4 Pp. 295-300. <https://dx.doi.org/10.4314/njtd.v17i4.7> ISSN: 2437-2110.
52. Musa J.J, E.A. Oturo, Dada P.O.O., **J.K. Adewumi** and Gupta, Y.U. (2021). Effect of Land Management on Soil Hydraulic Conductivity in Gidan Kwano, Niger State, Nigeria. *Open Journal of Forestry*, Vol. 11 Pp. 108-116. <https://doi.org/10.4236/ojf.2021.112008>
53. Musa J.J, E.A. Oturo, Dada P.O.O., **J.K. Adewumi** and Okafor, C.A. (2021). Evaluation of Different Irrigation Methods in Chanchaga Irrigation Scheme, North Central Nigeria. *Journal of Research in Forestry, Wildlife and Environment*. Vol. 13 No. 2. Pp. 27-36.
54. Musa, J.J. E.A. Oturo, P.O.O. Dada, **J.K. Adewumi**, I. A. Kuti and Jamil Adams-Suberu (2021). Validation of Universal Soil Loss Equation for Selected Soil Locations in North Central Nigeria Using a Rainfall Simulator. *AgricEngInt: CIGR Journal Open access at <http://www.cigrjournal.org>*. Vol. 23. No.3. Pp 21-30 (Sept).
55. Dada, P. O. O., Musa, J. J., **Adewumi, J. K.** and Olla O. O. (2022). Effect of tractorization and manure incorporation on soil hydraulic properties in a loamy sand soil in Abeokuta, southwest, Nigeria. *African Journal of Agriculture, Technology and Environment* Vol. 11(2): pp. 10-18 December, 2022. E-ISSN: 2346-7290.

56. Adebayo K.R. , **Adewumi J.K.** , Adeosun O.J. and Awokola O.S. (2021). Impact of Stationary Magnets as Irrigation Water Softener for Sustainable Cowpea Production. Journal of Research in Forestry, Wildlife & Environment Vol. 13(4) September, 2021. ISBN: 2141 – 1778. Pp. 29-35.
57. K.R. Adebayo1, **J.K. Adewumi** , O.J. Adeosun , O.S. Awokola. (2022). Effect of Magnetized Irrigation Water on Germination and Yield of IAR-48 Cowpea Cultivar. AgricEngInt: CIGR Journal Open access at <http://www.cigrjournal.org> Vol. 24, No.3. pp. 35-44.
58. Dada, P. O. O., Musa, J. J., **Adewumi, J. K.** and Olla O. O. (2023). Effect of Tillage Methods on Soil Physical and Strength Properties under Amaranthus Hybridus Production in a Sandy-Loam Environment. LAUTECH Journal of Engineering and Technology 17 (1) 2023: 107-115.

**Papers in Refereed Conference Proceedings/ Peer reviewed proceedings/
International Proceedings:**

59. K. R. Adebayo, **J. K. Adewumi** , O. J. Adeosun. and O. S. Awokola.(2021). Effect Of Stationary Magnetic Fields On Germination Potential Of Cowpea Cultivar. Proceedings of the 3rd International Conference on Engineering Innovations as a Catalyst for Rapid Economic Growth tagged COLENG 2021, Federal University of Agriculture, Abeokuta, Nigeria, May 24 -26, 2021. Pp. 530-535.
60. G.A. Bolaji, O.A. Agbede, **J.K. Adewumi** and J.O. Akinyemi (2008): “Selection of flood frequency model in Niger Basin using maximum likelihood method”: In : Water & Urban Development Paradigms. Edited by, Jan Feyen, Kelly Shannon & Matthew Neville. Pages 337 – 342. CRC Press. Taylor & Francis Group. A Balkema Book.
61. Otun, J. A. and **J. K. Adewumi** (2009): “Drought quantifications in semi-arid regions using precipitation effectiveness variables” In 18th World IMACS/MODSIM Congress, Cairns, Australia. 13 – 17 July, 2009. Pp. 3266 – 3272. www.mssanz.org.au & www.research.rutgers.edu/-imacs/
62. Othman, M.K., **J.K. Adewumi**, O.J. Mudiare, A.A. Ramalan and S.Z. Abubakar (2006). “Effects of Irrigation Network Deterioration on Water Distribution, Productivity and Environment in Kano River Irrigation Project (KRIP)”. **Proceedings of the 7th International Conference and 28th Annual General Meeting of the Nigerian Institution of Agricultural Engineers. Volume 28. Pp 261 – 268. 2006.**
63. Duru, J.O. and **J.K. Adewumi** (1980). “Evapotranspiration: Potential to crop. **“Proceedings for Nigerian Society of Agricultural Engineers.** Vol. 4. Pp. 120 – 135. Edited by Prof. J.C. Igbeka.
64. **J.K. Adewumi** (1986). “Effects of Soil Erosion on reservoirs capacity in Nigeria”. Proceedings of the National Workshop on Ecological Disasters: Soil Erosion, Owerri 8 –

- 12 September, 1986 pp. 262 – 267, 2nd edition. Edited by G.O. Saqqua, E.E. Enabor, F.K. Ofomata, K.O. Ologe and Lekan Oyebande.
65. Maurya, P.R., A. Ahmed and **J.K. Adewumi** (1986). “Towards Farmer – Managed Irrigation Water Distribution Systems in Nigeria”. **Proceedings of International Workshop on Design Issues in farmer – managed Irrigation systems.** Held at Chaing mai 12th to 15th December, 1989 pp. 51 – 57. Edited by Robert Yoder and Juanita Thurston.
 66. **J.K. Adewumi** (1987). “Water conveyance, application and Distribution efficiency – case for Nigeria Irrigation System evaluation”. **Proceedings of the 10th National Irrigation Seminar on Water for Irrigation.** NWRI Kaduna November 23 – 26 1987 pp 31 – 321. Edited by S.S. Abubakar. NAERLS
 67. Owonubi, J.J., V. Kumar **J.K. Adewumi** and D.O.A. Phillip (1989). “Management of large-scale Irrigation farms in Nigeria” **Proceedings of International Seminar on applied Agricultural Research in Mechanized Farming in Tropical Areas.** Sponsored by the FMST and CIRAD (French Embassy) NIIA Lagos 8 – 10 November, 1989 pp 1 – 19.
 68. Ahmed, A. **J.K. Adewumi** and A.D.K. Muhammed (1990). “Irrigation Water Allocation and distribution Schedule” In: **Farmer Participation in Irrigation Development and Management, Proceedings of National Workshop,** held at the Institute for Agricultural research, Samaru – Zaria Nigeria. May 7 – 8 1990. Edited by P.R. Maurya, J.J. Owonubi, V. Kumar, J.Y. Yayock and S. Abdulmimin pp 139 – 145 ABU Press.
 69. **Adewumi, J.K.**, K.F. Omotayo and I.O. Oladipo (2011). “Climatic Variability and Water Resources Development: A case study of Rivers Ogbese and Owena” In: Water and Sanitation Sector Reform: Empowering LGAs in Achieving National Development Objectives and the MDGs Targets. Proceeding of the 2nd National Water and Sanitation Conference, NWRI, Kaduna, 23RD – 25TH March, 2011.
 70. Oladipo, I.O., K.F. Omotayo and **Adewumi, J.K.** (2011). “Runoff Catching: A Mechanism for Sustainable Ground Water Recharge”. In: Water and Sanitation Sector Reform: Empowering LGAs in Achieving National Development Objectives and the MDGs Targets. Proceeding of the 2nd National Water and Sanitation Conference, NWRI, Kaduna, 23RD – 25TH March, 2011.
 71. Ahmed, S.D., A.K. Ndahi, **J.K. Adewumi** and S. Dauda. (2011).”Rural Water Supply and Sanitation in Nigeria: The Need for Scaling up Services”. In: Water and Sanitation Sector Reform: Empowering LGAs in Achieving National Development Objectives and the MDGs Targets. Proceeding of the 2nd National Water and Sanitation Conference, NWRI, Kaduna, 23RD – 25TH March, 2011.

72. Adekunle, A.A. and **J.K. Adewumi**. (2011). "The Challenge of Meeting Capacity Building in the Local Government Water Supply". In: Water and Sanitation Sector Reform: Empowering LGAs in Achieving National Development Objectives and the MDGs Targets. Proceeding of the 2nd National Water and Sanitation Conference, NWRI, Kaduna, 23RD – 25TH March, 2011.
73. Sobowale, A., **J.K. Adewumi**, O.S. Awokola, O.A. Bamigboye, D. Bashir and A.N. Egbulem (2011). "Towards Integrated Water Resources Management in South West Nigeria: The role of Capacity Building Institutions (CBIs). In: Water and Sanitation Sector Reform: Empowering LGAs in Achieving National Development Objectives and the MDGs Targets. Proceeding of the 2nd National Water and Sanitation Conference, NWRI, Kaduna, 23RD – 25TH March, 2011.
74. Sobowale, A., **Adewumi, J.K.**, O.A. Bamigboye and O.S. Awokola (2011): Capacity Building Network Approach to IWRM Implementation in South West Nigeria. International Conference on Integrated Water Resources Management IWRM. In Management of Water in a Changing World: Lessons Learnt and Innovative Perspective. Book of Abstracts. 12-13 October, 2011. Dresden, Germany. Pp. 213-216.

Books/Monographs and Chapter in Books

Chapter in Books:

75. Are Kolawole, and **J.K. Adewumi** and P.E. Odo. (1996) Firji – Masakwa Cultivation in Borno, North – East Nigeria, Chapter 11, pp. 90 – 96 In: **Sustaining The soil: Indigenous Soil and Water Conservation in Africa.** Chris Reij, Ian Scoones and Camila Toulmin (eds). EARTHSCAN, U.K. 1996. ISBN 1 – 85383 – 372 – X.
76. Are Kolawole, and **J.K. Adewumi** (2001). Water Harvesting in various farming systems in Nigeria in "La collecte des eaux de surface en Afrique de l'ouest et du centre" Edited by Kunze, D and Sourakata Bangora (eds). Chap 2.3. (Pp. 63 – 68) FAO/RAFA. RAF/Publication 2001.
77. Abubakar, S.Z., B. Lidon and **J.K. Adewumi**. (2003). Application of Agency – Farmer – Joint – Management (AFJM) concept in Hadejia Valley Irrigation Project in Nigeria. In: Promotion of Participatory Irrigation Management in HVIP, Nigeria. Experiences on Approaches, Lesson and Prospects. Abubakar and Kuper (eds). ISBN: 978 – 060 – 332 – 8. pp 67 – 80.
78. Sabiru, G.M. O.J. Mudiare, **J.K. Adewumi**, and A.A. Ramalan. (2003). Irrigation operation and Maintenance: Cost recovery and cost sharing between agency and farmers in Hadejia Valley Irrigation Project. In: Promotion of Participatory Irrigation Management in HVIP, Nigeria. Experiences on Approaches, Lessons and Prospects. Abubakar and Kuper (eds). ISBN: 978 – 060 – 332 – 8 pp 111 – 117.

79. Abubakar, M.S., A. Ahmed, **J.K. Adewumi** (2003). Water Management by farmers at the tertiary system in Hadejia Valley Irrigation Project. In: Promotion of Participatory Irrigation Management in HVIP, Nigeria. Experiences on Approaches, Lessons and Prospects. Abubakar and Kuper (eds). ISBN: 978 – 060 – 332 – 8. pp 103 – 110.

Technical Reports/Exhibition reports/Patents

TECHNICAL REPORT:

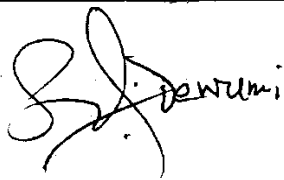
80. **Adewumi, J.K. (Team Leader)** and Afolabi, Y.S. (1996). Diagnostic Survey of Umarson Agricultural Development Authority Ltd. Zungeru. Niger State. (78 pages).
81. J.J. Owonubi (Coordinator), Dr. A.M. Falaki, Dr. B.A. Raji, Dr. T. Kparmwang, **Adewumi, J.K.** Dr. O.J. Mudiare and Dr. W.B. Malgwi. (1997). **Soil Survey and Water Quality Analysis of 8,500 Hectares Land in Jigawa State Part One.** World Bank Sponsored Project.
82. J.J. Owonubi (Coordinator), Dr. A.M. Falaki, Dr. T. Kparmwang, **Adewumi, J.K.**, Dr. O.J. Mudiare and Dr. W.B. Malgwi. (1997). **Soil Survey and Water Quality Analysis of 8,500 Hectares Land in Jigawa State Part Two.** World Bank Sponsored Project.]
83. Are Kolawole and **Adewumi, J.K.** (1998). Farming Systems Assessment of Water Harvesting in Western Africa: The Nigeria Case. A Commission Technical report submitted to FAO regional office for Africa, Accra-Ghana. (82 pages).
84. **Adewumi, J.K.** (Team Leader) and O.J. Ogunwole (2004). “Review of the Public Irrigation Sector in Nigeria” Report Submitted to ENPLAN GROUP, Abuja. (North West Zone). Commission study by Food and Agricultural Organization of the United Nations. (130 pages)

Unpublished Conference and Seminars Presentations:

1. Martins, O.O., S.B. Adejuyigbe, M.A. Waheed and **J.K. Adewumi** (2012). “Computerization of Production Progress and Control of Small Scale Bottled Water Industry in Nigeria”. Paper Presented in The Nigeria Society of Engineer’s Conference Tagged Strategies for Promotion of Sustainable Driven Economy in Nigeria. HARMONY 2012. Kwara Hotel, Ilorin. Kwara State.
2. Are Kolawole and **J.K. Adewumi** (1997), “Dryland Management Practices in Nigeria with lessons from other Sub-Sahara – African Countries: An Overview”. A lead paper presented at the 23rd Annual Conference of the Soil Science Society of Nigeria Faculty of Agriculture, Usmanu Danfodiyo University, Sokoto. 2 – 5 March 1997.
3. **J.K. Adewumi** and M.K.D. Babangida (1991). “Analysis of Rainfall Data for the design of Conservation Structures for IAR farm Samaru – Zaria”. Paper

presented at the 15th annual conference of the NSAE held at University of Maiduguri, maiduguri.

4. Ahmed, A. **J.K. Adewumi** and A.D.K. Muhammed (1990).” Irrigation Water Allocation and distribution Schedule”. Paper Presented at the National Workshop on Farmers Participation in Irrigation Development and management in Nigeria, held at the Institute for Agricultural Research Conference Room, A.B.U. Samaturu – Zaria Nigeria. May 7 – 8 1990.
5. **J.K. Adewumi** and Rabo Lalong (1989). “Soil Loss Tolerance limit for Effective Conservation measure in Samaru – Northern Nigeria”. Paper presented at the Nigeria Society of Agricultural Engineers held at NAERLS Conference hall, 1989. Department of Agricultural Engineering, Ahmadu Bello University, Zaria.
6. **J.K. Adewumi** (1987). “Field Practicals on Constructions of Measuring Equipments, Water Measurements and recording”. A paper Presented at the Workshop on Irrigation Water Measurement Held in the Conference Hall NAERLS, A.B.U. Zaria. August 10 – 12 1989.
7. **J.K. Adewumi** (1987). “ Water conveyance, application and Distribution efficiency at Kadawa sector of Kano River Basin of Nigeria” A Seminar Presented at the 17th International Course on Irrigation and Soil Management, Volcalnic Centre Bet- Dagan, Israel. November 10 1986.
8. **J.K. Adewumi** J.O. Duru and R.C. Yadav. (1985). “Irrigation Efficiencies at Kadawa Sector of Kano River Basin “Paper No. NSAE 85 – 018, 9th Annual Conference of the Nigeria Society of Agricultural Engineers, Concords Hotel, Owerri, Imo State.



Engr. Prof. J.K. Adewumi

Past South West Regional Coordinator for National Water Resources Capacity Network

Past Dean, College of Engineering, (August 2013 – July 2018)

Past Chairman, Committee of Deans of Directors (CODAD) Sept. 2017- July2018

Federal University of Agriculture, Abeokuta. Ogun State. Nigeria.