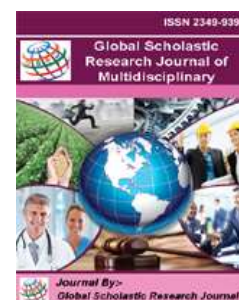




A PEER REVIEWED INTERNATIONAL  
JOURNAL OF GLOBAL SCHOLASTIC  
RESEARCH JOURNAL

**GSRJ**

GLOBAL SCHOLASTIC RESEARCH  
JOURNAL OF MULTIDISCIPLINARY



## AN OVERVIEW OF CHALLENGES ON SMALLHOLDER AGROFORESTRY FARMS IN JIGAWA STATE, NORTHERN NIGERIA

UMAR S. DAURA<sup>1</sup>; AZIZA M. BADR<sup>2</sup>; ATTIA M. EL-TANTAWI<sup>3</sup>

<sup>1</sup> Lecturer of physical Geography, Umaru Musa Yar'adua University-Katsina, Nigeria

<sup>2</sup> Prof. of Human Geography, Institute of African Research and Studies, Cairo University, Egypt

<sup>3</sup> Prof. of physical Geography, Institute of African Research and Studies, Cairo University, Egypt

---

### Abstract

Under the threat from a cocktail of climate change, environmental and soil, degradation and present economic meltdown in the country and world over, the practice of agroforestry come under a myriad of challenges. This study looks at Jigawa state, which has an agrarian based economy. With an estimate of 0.8ha being the average size of farmlands in the state, this study attempts to outline the pressing challenges facing these smallholder farms. A multistage sampling was employed for the study. Using division of the state into 3 zones which include; Jigawa southwest, Jigawa northwest, Jigawa northeast and. Out of each zone, 3LGA were selected out of which 50 respondents were purposively targeted from each community providing the study with sampling frame of 450 respondents. The analysis proceeded by using mean, percentages and use of table and figures. The results show that tenure insecurity, herder problems as challenges to the farmers. Laxity on part of the institutions adds to the list. The study recommends the revitalization of relevant bodies charged with maintenance and dissemination of information and incentives on use of modern agroforestry to ensure its sustainability.

**Keyword:** Agroforestry, Smallholder, Tenure insecurity, Herder Problem

---

## References

Abubakar. M.S. and Ahmad. D. (2010) *Utilization of and Constraints on Animal Traction in Jigawa State, Nigeria*. Australian Journal of Basic and Applied Sciences, 4(6): 1152-1156,

Adedapo J. O.(2014) The Role Of Agroforestry Practices In Sustainable Land Management In Rural Areas Of Kaduna State, Nigeria. Unpublished MSc Thesis Submitted to Department of geography Ahmadu Bello University, Zaria.

Adedayo A.G., Oluronke S. (2014) Farmers' Perception and Adoption of Agroforestry Practices in Osun State, Nigeria. Forest Res 3: 127.

Ajayi OC , Akinnifesi FK, Gudeta S, Chakeredza S (2007) Adoption of Renewable Soil Fertility Replenishment Technologies in Southern African Region: Lessons Learnt and the Way Forward. Natural Resource Forum 31 (4): 306-317

Akinnifesi FK, Sileshi G, Ajayi OC, Chirwa PW, Kwesiga F, Harawa R (2008) Contributions of agroforestry research and development to livelihood of smallholder farmers in Southern Africa: 2. Fruit, medicinal, fuelwood and

Audu,S.D (2013). Conflicts among Farmers and Pastoralists in Northern Nigeria Induced by Freshwater Scarcity *Journal of Environmental and earth science Developing Country Studies Vol.3, No.12, 2 ISSN 2224-607X Biodiversity Journal, 4(3):427-434*

Dakata F. A. G. and Yelwa S A. (2012) An Assessment of mean and inter-seasonal variation during growing season across Kano region, Nigeria using Normalized Difference Vegetation Index derived from SPOT satellite data. Unpublished MSc Thesis Usman Danfodio University

David.O.O., Jamala G. Y., (2013) Traditional Agroforestry Practice and Woody Conservation in derived Savanna ecosystem of Adamawa *International organization of scientific Research journal*

Ekwugha, U. E.(2016) Impacts of Agroforestry Technologies on Watershed Management in Imo State, Southeastern Nigeria *Nigerian Journal of PH Agriculture, Food and Environment. Vol.12 (1):12-16*Fodder tree systems. Agricultural Journal 3 (1): 76-88

Hadejia .I, Smith. A (2017) Improving economic empowerment through the development of cluster farming initiatives in Jigawa State Paper presented at the "2017 World Bank Conference on Land and Poverty "The World Bank - Washington Dc.

Hassan .U.B (2004)Conflict between Farmers and Pastoralistsin Jigawa state; A study of Birniwa and Kirikasmma Local government areas. Unpublished MSc Thesis Submitted to Department of geography Bayero University Kano

Kabiru, A. (1998) "Status of Bennisced in Jigawa State." In: Proceedings of the first National Workshop on Bennisced, 3-5 March 1998 Badegi, pp 136-143

Masebo.N and Menamo.M (2016) A Review Paper on: The Role of Agroforestry for Rehabilitation of Degraded Soil *Journal of Biology, Agriculture and Healthcare Vol.6, .(5), ISSN 2224-3208*

Masebo.N and Menamo.M (2016) A Review Paper on: The Role of Agroforestry for Rehabilitation of Degraded Soil *Journal of Biology, Agriculture and Healthcare Vol.6, .(5), ISSN 2224-3208*

Nair PKR, Kumar BM, Nair V.D (2009) Agroforestry as a strategy for carbon sequestration. *J Plant Nutr Soil Science 172:10–23*

NPC (2010) Nigeria population commission Report Abuja. . Federal Republic of Nigeria.

Olaagunu.E.T,. (2015)Drought, desertification and the Nigerian environment: A review *Journal of ecology and Natural Environment Vol.(7) 7*

Ofuoku. A. U. and. Isife, B. I (2009) Causes, effects and resolution of farmers-nomadic cattle herders' conflict in Delta state, Nigeria *International Journal of Sociology and Anthropology Vol. 1(2) pp. 047-054*

Olofin, E. A (1987). Some aspects of the physical geography of the Kano region and related human responses. Departmental Lecture Note Series: Geography Department, Bayero University. Debis Standard Printers, Kano, Nigeria

Robert J. Zomer A, Antonio Trabucco B,C, Deborah A. Bossio C, Louis V. Verchot A World Agroforestry Centre.(2008) Climate change mitigation: A spatial analysis of global land suitability for clean development mechanism afforestation and reforestation. *Agriculture, Ecosystems and Environment 126: 67–80*, Nairobi, Kenya

Sabo. U.U, (2005)Impact of Participatory Extension Activities on Sesame production in Ringim and Taura local government areas of Jigawa state A Thesis Submitted to the Post-graduate School, Ahmadu Bello University, Zaria

Saminu U.D, (2011) An Assessment of tree density and Diversity on smallholder farm Parkland agroforestry systems in Daura. Unpublished MSc Thesis Submitted to Department of geography Bayero University Kano.

Selmyihun K. (2004) Using Eucalyptus saligna for soil and water conservation on the highland vertisoil of Ethiopia .PhD thesis, Wagenign University

Tonah S (2006). Managing Farmer-Herder Conflicts in Ghana's Volta Basin. Ibadan *Journal of Social Sciences 4(1): 33-45*

UNEP. (2007). Global Environment Outlook GEO 4 environment for development, Valletta (Malta): Progress Press Ltd. 540pp.