

## REFERENCES

- ABDUL-HANAN, A., AYAMGA, M. and DONKOH, S. A. (2014). Smallholder adoption of soil and water conservation techniques in Ghana. *African Journal of Agricultural Research*, 9(5), 539-546. DOI: [10.5897/AJAR2013.7952](https://doi.org/10.5897/AJAR2013.7952)
- ADESINA, A. A. and BAIDU-FORSON, J. (1995). Farmers' perceptions and adoption of new agricultural technology: evidence from analysis in Burkina Faso and Guinea, West Africa. *Agricultural economics*, 13(1), 1-9. <https://EconPapers.repec.org/RePEc:eee:agecon:v:13:y:1995:i:1:p:1-9>
- ANANDAJAYASEKERAM, P., PUSKUR, R., SINDU W. and HOEKSTRA, D. (2008). *Concepts and practices in agricultural extension in developing countries: A source book*. IFPRI (International Food Policy Research Institute), Washington, DC, USA, and ILRI (International Livestock Research Institute), Nairobi, Kenya. [https://cgspace.cgiar.org/bitstream/handle/10568/99/Source\\_book.pdf](https://cgspace.cgiar.org/bitstream/handle/10568/99/Source_book.pdf)
- ANGELUCCI, F., ASANTE-POKU, A. and ANAADUMBA, P. (2013). *Analysis of incentives and disincentives for rice in Ghana*. Technical notes series, MAFAP, FAO, Rome. [www.fao.org/3/a-at546e.pdf](http://www.fao.org/3/a-at546e.pdf)
- AZUMAH, S. B., DONKOH, S. A. and ANSAH, I. G. K. (2017). Contract farming and the adoption of climate change coping and adaptation strategies in the northern region of Ghana. *Environment, Development and Sustainability*, 1-21. DOI: <https://doi.org/10.1007/s10668-016-9854-z>
- AZUMAH, S. B., TINDJINA, I., OBANYI, S. and WOOD, T. N. (2017). Productivity Effect of Urea Deep Placement Technology: An Empirical Analysis from Irrigation Rice Farmers in the Northern Region of Ghana. *World Academy of Science, Engineering and Technology, International Journal of Biological, Biomolecular, Agricultural, Food and Biotechnological Engineering*, 11(3), 194-199. <https://pdfs.semanticscholar.org/3e38/ee5114a071ebeb60eb0b30d8564427129baf.pdf>
- BÖHNING, D., DIETZ, E., SCHLATTMANN, P., MENDONCA, L. and KIRCHNER, U. (1999). The zero-inflated Poisson model and the decayed, missing and filled teeth index in dental epidemiology. *Journal of the Royal Statistical Society, Series A (Statistics in Society)*. Wiley Online Library. 162 (2): 195–209. DOI: [10.1111/1467-985X.00130](https://doi.org/10.1111/1467-985X.00130)
- CAMERON, A.C. and TRIVEDI, P.K. (2010). *Microeconometrics Using Stata*: Stata Press.
- DANSO-ABBEAM, G., and BAIYEGUNHI, L. J. (2017). Adoption of agrochemical management practices among smallholder cocoa farmers in Ghana. *African Journal of Science, Technology, Innovation and Development*, 1-12. DOI: [10.1080/20421338.2017.1380358](https://doi.org/10.1080/20421338.2017.1380358)
- DANSO-ABBEAM, G., SETSOAFIA, D. E. and ANSAH, I. G. K. (2014). Modelling Farmers Investment in Agrochemicals: The Experience of Smallholder Cocoa Farmers in Ghana. *Research in Applied Economics*, 6(4), 12–27. DOI: <https://doi.org/10.5296/rae.v6i4.5977>
- dEGRAFT-JOHNSON M., SUZUKI, A., TAKESHI SAKURAI, T. and OTSUKA, K. (2014). On the transferability of the Asian rice green revolution to rain fed areas in sub-Saharan Africa: An assessment of technology intervention in Northern Ghana. *Agricultural Economics*, 45, 555–70. DOI: <https://doi.org/10.1111/agec.12106>
- DONKOH, S. A. and AWUNI, J. A. (2011). Adoption of farm management practices in lowland rice production in northern Ghana. *Global Research Journal*, 2(6), 189-191.
- FOOD AND AGRICULTURE ORGANISATION (FAO) (2013). *Success Stories on Climate-Smart Agriculture*. FAO Climate-Smart Agriculture (CSA) Sourcebook 2013. [www.fao.org/climatechange/climatesmart/en/](http://www.fao.org/climatechange/climatesmart/en/)
- FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO) (2011). *The State of Food and Agriculture 2010–2011 – Women in Agriculture: Closing the Gender Gap for Development*. FAO; Rome, Italy: 2011. [www.fao.org/docrep/013/i2050e/i2050e.pdf](http://www.fao.org/docrep/013/i2050e/i2050e.pdf)
- GHANA STATISTICAL SERVICE (GSS, 2012). *Population and Housing Census, 2010*. Ghana. [www.statsghana.gov.gh](http://www.statsghana.gov.gh)
- GHANA STATISTICAL SERVICE (GSS, 2014). *Ghana Living Standard Survey Round 6. Poverty Profile in Ghana (2005-2013)*. <http://www.statsghana.gov.gh>
- GHANA STATISTICAL SERVICE (GSS, 2014). *National Accounts Statistics. Final 2012 Gross Domestic Product & Revised 2013 Gross Domestic Product*. [www.statsghana.gov.gh](http://www.statsghana.gov.gh)
- ISGIN, T., BILGIC, A., FORSTER, D. L. and BATTE, M. T. (2008). Using count data models to determine the factors affecting farmers' quantity decisions of precision farming technology adoption. *Computers and Electronics in Agriculture*, 62, 231–242. DOI: <https://doi.org/10.1016/j.compag.2008.01.004>
- JOHNSON, N. L., KOTZ, S. and KEMP, A. W. (1992). *Univariate Discrete Distributions (2nd Ed.)*. Wiley. 312–314.
- LAMBERT, D. (1992). Zero-Inflated Poisson Regression, with an Application to Defects in Manufacturing. *Technometrics*, 34 (1), 1–14. DOI: [10.2307/1269547](https://doi.org/10.2307/1269547)
- LOHR, L. and PARK, T. A. (2002). Choice of insect management portfolios by organic farmers: Lessons and comparative analysis. *Ecological Economics*, 43: 87–99. DOI: [https://doi.org/10.1016/S0921-8009\(02\)00184-2](https://doi.org/10.1016/S0921-8009(02)00184-2)
- MENSAH-BONSU, A., SARPONG, D. B., AL-HASSAN, R., ASUMING-BREMPOG, S., EGYIR, I. S., KUWORNU, J. K., and OSEI-ASARE, Y. B. (2017). Intensity of and factors affecting land and water management practices among smallholder maize farmers in Ghana. *African Journal of Agricultural and Resource Economics*, 12(2), 142-157.
- MINISTRY OF FOOD AND AGRICULTURE (MoFA) (2013). *Agriculture in Ghana: Facts and Figures (2012)*. Statistics, Research and Information Directorate (SRID) (pp. 1–45). Accra. [www.mofa.gov.gh](http://www.mofa.gov.gh)
- MINISTRY OF FOOD AND AGRICULTURE (MoFA) (2016). *Agriculture in Ghana. Facts and Figures 2015*. Statistics, Research and Information Directorate (SRID) of MoFA, October 2016. [www.mofa.gov.gh](http://www.mofa.gov.gh)
- NDPC (2005). *Growth and poverty reduction strategy (GPRS II): 2006 – 2009*. National Development Planning

Commission, Accra, Republic of Ghana.  
[www.ndpc.gov.gh](http://www.ndpc.gov.gh)

NDPC (2010). *Implementation of the growth and poverty reduction strategy, 2009: Annual Progress Report*. Development Planning Commission, Accra, Republic of Ghana. [www.ndpc.gov.gh](http://www.ndpc.gov.gh)

NKEGBE, P. and SHANKAR, B. (2014). Adoption intensity of soil and water conservation practices by smallholders: evidence from Northern Ghana. *Bio-based and Applied Economics*, 3(2), 159-174. DOI: [10.13128/BAE-13246](https://doi.org/10.13128/BAE-13246)

RAGASA, C., DANKYI, A., ACHEAMPONG, P., NIMO WIREDU, A., CHAPOTO A., ASAMOAH, M. and TRIPP, R. (2013). *Patterns of Adoption of Improved Rice Technologies in Ghana*. GSSP-IPFRI. Working Paper 35, July 2013.

SHARMA, A., BAILEY, A. and FRASER, I. (2011). Technology adoption and pest control strategies among UK cereal farmers: Evidence from parametric and nonparametric count data models. *Journal of Agricultural Economics*, 62(1), 73–93. DOI: [10.1111/j.1477-9552.2010.00272.x](https://doi.org/10.1111/j.1477-9552.2010.00272.x)

UNITED NATIONS FRAMEWORK CONVENTION ON CLIMATE CHANGE (UNFCCC) (2007). *Climate change: impacts, vulnerabilities and adaptation in developing countries*. (Available at <http://unfccc.int/resource/docs/publications/impacts.pdf>)

UZONNA, U. R. and QIJIE, G. (2013). Effect of extension programs on adoption of improved farm practices by farmers in Adana, southern Turkey. *Journal of Biology, Agriculture and Healthcare*, 3, 17-23.

WANG, L., HUO, X. and KABIR, M.S. (2013): Technical and cost efficiency of rural household apple production. *China Agricultural Economic Review*, 5(3), p. 391-411. DOI: [10.1108/CAER-08-2011-0087](https://doi.org/10.1108/CAER-08-2011-0087).