

## REFERENCES

- Adesina, A. A. and M. M. Zinnah. 1993. "Technology Characteristics, Farmers' Perceptions and Adoption Decisions: A Tobit Model Application in Sierra Leone". *Agricultural Economics* 9: 297-311.
- Ayele, G. 1999. Economic Analysis of Innovation and Adoption of Vertisol Technology: A Study of Smallholder's Mixed Farming in the Highland of Ethiopia. University of Hohenheim, Stuttgart, Germany.p.156.
- Bacha, D., G. Aboma, A. Gameda, and H. D. Groote. 2001. *The Determinants of Fertilizer and Manure Use in Maize Production in Western Oromiya, Ethiopia. Seventh Eastern and Southern Africa Regional Maize Conference.* 11-15 February, 2001. p.438-441.
- Baidu-Forson, J. 1999. "Factors Influencing Adoption of Land-Enhancing Technology in the Sahel: Lessons from a Case Study of Niger", *Agricultural Economics* 20: 231-239.
- Baron, D. 1981. *Landownership Characteristics and Investment in Soil Conservation.* USDA, ERS Staff Report No. AGES810911.
- Barrett, C. B., F. Place, A. A. Aboud, (Eds.). 2002. *Natural Resource Management in African Agriculture: Understanding and Improving Current Practices.* Oxford: CABI.
- Barrios, E. and M. T. Trejo. 2003. "Implications of Local Soil Knowledge for Integrated Soil Management in Latin America". *Geoderma* 111: 217-231.
- Birmingham, D. M. 2003. "Local Knowledge of Soils: the Case of Contract in Côte d'Ivoire". *Geoderma* 111: 481-502.
- Bonati, G. and E. Gelb. 2005. Evaluating internet for extension in agriculture. In: gelb, B. And Offer, A. (ed.), *ICT in Agriculture: Perspectives of Technological Innovation*, Paris: European Federation for Information Technologies in Agriculture, Food and the Environment.
- Bot, A. and J. Benites. 2005. The Importance of Soil Organic Matter, p.21-39. In *FAO Soils Bulletin* 80. Rome: Food and Agricultural Organization, United Nations.
- Brouwers, J. H. A. M. 1993. Rural People's Response to Soil Fertility Decline. The Adja Case (Benin). Wageningen Agricultural University Papers 93-4, p.146.

- Calatrava, L. J., J. A. Franco Martínez and M. C. González Roa. 2007. "Analysis of the Adoption of Soil Conservation Practices in Olive Groves: the Case of Mountainous Areas in Southern Spain". *Spanish Journal of Agricultural Research* 5(3): 249-258.
- Carlson, J. E., D. A. Dillman and W. R. Lassey. 1981. *The Farmer and Erosion: Factors Influencing the Use of Control Practices*. University of Idaho, Agricultural Experiment Station, Bulletin No. 601.
- Carlson, J. E., M. Mcleod, W. R. Lassey and D. A. Dillman. 1977. *The Farmers, Absentee Landowners, and Erosion: Factors Influencing the Use of Control Practice*. Idaho Water Resources Institute, Moscow, Idaho.
- Carucci, V. F. P. 2001. *Guidelines on Soil and Water Conservation for the Myanmar Dry Zone*. UNDP / FAO, Yangon, Myanmar.
- Chinangwa L. L. R. 2006. Adoption of Soil Fertility Improvement Technologies Among Smallholder Farmers in Southern Malawi. Master Thesis. Norwegian University of Life Sciences. Department of International Environment and Development Studies (NORAGRIC).
- Clay, D., F. Byiringiro, J. Kangasniemi, T. Reardon, B. Sibomana and L. Uwamariya. 1995. Promoting Food Security in Rwanda through Sustainable Agricultural Productivity: Meeting the Challenges of Population Pressure, Land Degradation, and Poverty. MSU Staff Paper No. 95-085.
- Damisa, M. A. and E. Igonoh. 2007. "An Evaluation of the Adoption of Integrated Soil Fertility Management Practices Among Women Farmers in Danja". Nigeria. *Journal of Agricultural Education and Extension* 13(2): 107-116.
- Deugd M., N. Röling and E. M. A., Smaling. 1998. "A New Praxeology for Integrated Nutrient Management, Facilitating Innovation with and by Farmers". *Agriculture, Ecosystems & Environment* 71: 271-285.
- Ervin, C. A., and D. E. Ervin. 1982. "Factors Affecting the Use of Soil Conservation Practices: Hypothesis, Evidence and Policy Implications". *Land Economics* 58(3): 277-292.
- FADINAP. 2000. *Integrated Plant Nutrition Systems. Training Manual*.
- Fairhurst, T. H., C. Witt, R. J. Buresh and A. Dobermann. 2007. *Rice: A Practical Guide to Nutrient Management*. 2<sup>nd</sup> ed. International Rice Research Institute, International Plant Nutrition Institute and International Potash Institute.
- Farouque, M. G. and H. Tekeya. 2008. "Farmers' Use Integrated Soil Fertility and Nutrient Management Practices for Sustainable Crop Production: A Field-Level Study in Bangladesh". *American Journal of Agricultural and Biological Sciences* 3(4): 716-723.

- Featherstone, A. M. and B. K. Goodwin. 1993. "Factors Influencing Farmer's Decision to Invest in Long-Term Conservation Improvements". *Land Economics* 69(1): 67-81.
- Feder, G., R. Just and D. Zilberman. 1985. "Adoption of Agricultural Innovations in Developing Countries: A Survey". *Economic Development and Cultural Change* 33: 255-298.
- Fernando, B. J. S. S and C. Sangchyoswat. 2010. *Prediction of the Nutrient Management Adoption in Irrigated Paddy Production System in Hambantota District, Sir Lanka. International Conference on Food and Irrigation Supply Chain in Indo-China region, 29-31 March 2010, Phitsanulok, Thailand.*
- Forest Department. 1997. Forest Department, Ministry of Forestry, Myanmar.
- Gale, W. J. and C. A. Cambardella. 2000. "Carbon Dynamics of Surface Residue- and Root-Derived Organic Matter under Simulated No-Till". *Soil Science Society of America Journal* 64(1): 190-195.
- Gray, L. C., P. Morant. 2003. "Reconciling Indigenous Knowledge with Scientific Assessment of Soil Fertility Changes in South Western Burkina Faso". *Geoderma* 111: 425-437.
- Guerin, T. F. 2000. "Overcoming the Constraints to the Adoption of Sustainable Land Management Practices in Australia". *Technological Forecasting and Social Change* 65: 205-237.
- Gupta, P. K. 1999. "Hand Book of Soil Fertilizer and Manure". *Agrobotanical Journal* 58: 532-548.
- Guthrie, W. 1940. Reducing Soil Erosion: In Building Soil for Better Crops.
- Harshbarger, T. R. 1977. *Introductory Statistics*. 2<sup>nd</sup> ed. New York: Macmillan.
- Hills, J. L., C. H. Jones and C. Cutler. 1908. Why is Organic Matter So Important? In Building Soil for Better Crops.
- Hoover, H. and M. Witala. 1980. Operator and Landlord Participation in Soil Erosion Control in Maple Creek Watershed in Northeast Nebraska. Economic, Statistical and Cooperative Service, USDA.
- Hosmer, D. W. and S. Lemeshow. 1989. *Applied Logistic regression*. New York: John Willey and Sons.
- Htoo, T. 2009. Dry Zone Greening in Central Myanmar. Ministry of Forestry, Myanmar. Available online ([http:// www. Myanmar - narcotic. Net / Ministry / Forest / Environment.html](http://www.Myanmar-narcotic.Net/Ministry/Forest/Environment.html).)
- Hulugalle, N., R. Lal and C. H. H. Terkuile. 1986. "Amelio-Ration of Soil Physical Properties by Mucuna after Mechanized Land Clearing of a Tropical Rainforest". *Soil Science* 141: 219-224.

- Hussain, N., G. Hassan, M. Arshadullah and F. Mujeeb. 2001. "Evaluation of Amendments for the Improvement of Physical Properties of Sodic Soil". *International Journal of Agricultural and Biological Science* 3: 319-322.
- IFAD, 2003. The Adoption of Organic Agriculture Among Small Farmers in Latin America and the Caribbean Thematic Evaluation. Report No. 1337.
- IFPRI. 2001. "Sustainable Food Security for All by 2020". *Food and Nutrition Bulletin* 26: 351-352.
- Illukpitiya, P and C. Gopalakrishnan. 2004. "Decision-Making in Soil Conservation: Application of a Behavioral Model to Potato Farmers in Sri Lanka". *Land Use Policy* 21: 321-331.
- JICA. 2007. Interim Report (1), The Development Study on Sustainable Agricultural and Rural Development for Poverty Reduction in Programme in Central Dry Zone, the Union of Myanmar, prepared for the Ministry of Agriculture and Irrigation, Myanmar, Japan International Cooperation Agency (JICA).
- Karki, L. B. and S. Bauer. 2004. Technology Adoption and Household Food Security. Analyzing Factors Determining Technology Adoption and Impact of Project Intervention: A Case of Smallholder Peasants in Nepal. Paper prepared to present in the Deutscher Tropentag to be held on 5-7 October, 2004, Humboldt University, Berlin.
- Khan, N. I., A. U. Malik, F. Umer and M. Irfan Bodla. 2010. "Effect of Tillage and Farm Yard Manure on Physical Properties of Soil". *International Research Journal of Plant Science* 1(4): 75-82, October, 2010. Available online <http://www.interestjournals.org/IRJPS>.
- Kyu, M. M. 2006. Intercropping Systems in Some Agroecological Zones of Myanmar and Effects of Maize-Mungbean Intercropping Patterns on Yield and Weed Suppression. Ph.D. dissertation. Yezin Agricultural University, Yezin, Myanmar.
- Lasley, P., and M. Nolan. 1981. Landowner Attitudes Toward Soil and Water Conservation in the Grindstone-Lost Muddy Creek Project. Unpublished Manuscript, Department of Rural Sociology, University of Missouri.
- Malawi Government. 2002. *Malawi Poverty Reduction Strategy Paper*. Final Draft. Lilongwe, Malawi.
- Marenya, P. P and C. B. Barrett. 2007. "Household-Level Determinants of Adoption of Improved Natural Resources Management Practices Among Smallholder Farmers in Western Kenya". *Food Policy* 32: 515-536.
- Masavisuthi, P. 2005. Farmers' Adoption of Sunflower Production Technology under Sunflower Extension and Development Project, Changwat Lop Buri. Master of Science Thesis in Agricultural Extension, Kasetsart University, Thailand.

- Mbaga-Semgalawe, Z and H. Folmer. 2000. "Household Adoption Behavior of Improved Soil Conservation: The Case of the North Pare and West Usambara Mountains of Tanzania". *Land Use Policy* 17: 321-336.
- McDowell, C and R. Sparts. 1989. "Multivariate Modeling and Prediction of Farmer's Conservation Behavior Towards Natural Ecosystems". *Journal of Environmental management* 28: 185-210.
- Mendis, I. U. 2005. Factors Affecting Adoption of Recommended Crop Management Practices in Paddy Cultivation in Kalutara District. Master of Science Thesis in Agricultural Extension, Kasetsart University, Thailand.
- Menegay, M. R. 1975. "Socioeconomic Factors Affecting Cropping Systems for Selected Taiwan Farmers". International Rice Research Institute, p.231-251. In *Proceeding of the Cropping Systems Workshop*. Los banos, Philippines.
- Mosher, A. T. 1978. *An Introduction to Agricultural Extension*. Singapore: Singapore University Press.
- Namara, R. E., P. Weligamage and R. Baker. 2003. Prospects for Adopting Systems of Rice Intensification in Sri Lanka: A Socio Economic Assessment. Research Report 75. Colombo, Sri Lanka: International Water Management Institute.
- NCEA. 1997. Myanmar Agenda 21. NCEA (National Commission for Environmental Affairs), Ministry of Foreign Affairs, Yangon, Myanmar.
- Nkamleu, G. B. 2007. "Modeling Farmers' Decisions on Integrated Soil Nutrient Management in Sub-Saharan Africa: A Multinomial Logit Analysis in Cameroon". A. Bationo (eds.), *Advances in Integrated Soil Fertility Management in Sub-Saharan Africa: Challenges and Opportunities*, 891-903. © 2007 Springer.
- Norris, P. E. and S. S. Batie. 1987. "Virginia Farmers' Soil Conservation Decisions: An Application of Tobit Analysis". *Southern Journal of Agricultural Economics* July.
- Nowak, P. J. and P. F. Korsching. 1983. "Social and Institutional Factors Affecting the Adoption and Maintenance of Agricultural BMPs", in F. Schaller and G. Bailey (eds.). *Agricultural Management and Water Quality*, Iowa State University Press, Ames, Iowa.
- Nyeko, P., G. Edward-Jones, R. K. Day and T. Raussen. 2002. "Farmers' Knowledge and Perceptions of Pests in Agroforestry with Particular Reference to *Alnus* Species in Kabale District, Uganda". *Crop Protection* 21: 929-941.
- Oluoch-Kosura, W. A., P. Phiri Marenja and M. J. Nzuma. 2001. Soil Fertility Management in Maize-Based Production Systems in Kenya: Current Options and Future Strategies. The Seventh Eastern and Southern Africa Regional Maize Conference, 11-15 February, p.350-355.

- Osbahra, H. 1997. Indigenous Knowledge, Fallow Systems and Indicator Species: A Case Study from Fandou Be'ri, South-Western Niger. MRes Thesis. University College London.
- Osbahra, H. and C. Allan. 2003. "Indigenous Knowledge of Soil Fertility Management in Southwest Niger". *Geoderma* 111: 457-479.
- Palis, F. G. 2006. "The Role of Culture in Farmer Learning and Technology Adoption: A Case Study of Farmer Field Schools Among Rice Farmers in Central Luzon, Philippines". *Agriculture and Human Values* 23: 491-500.
- Palm, C., R. J. Myers and S. M. Nandwa. 1997. Combined Use of Organic and Inorganic Sources for Soil Fertility Maintenance and Replenishment. SSSA Special publication No. 51:193-218.
- Pnadey, S. 1999. "Adoption of Nutrient Management Technologies for Rice Production: Economics and Institutional Constraints and Opportunities". *Nutrient Cycling in Agroecosystems* 53(1): 103-111.
- Pung, H., P. L. Aird and S. Cross. 2004. The Use of Brassica Green Manure Crops for Soil Improvement and Soilborne Disease Management. 3rd Australasian Soilborne Diseases Symposium 8-11 February 2004.
- Rahm, M. R., and W. E. Huffman. 1984. "The Adoption of Reduced Tillage: The Role of Human Capital and Other Variables". *American Journal of Agricultural Economics* 66(4): 405-413.
- Rahman, S. 2003. "Environmental Impact of Modern Agricultural Technology Diffusion in Bangladesh: An Analysis of Farmers' Perceptions and their Determinants". *Journal of Environmental Management* 68: 183-191.
- Reardon, T., C. B. Barrett, V. Kelly and K. Savadogo. 2001. Sustainable versus Unsustainable Agricultural Intensification in Africa: Focus on Policy Reforms and Market Conditions. In: Lee, D.R., Barrett, C.B. (Eds.), Tradeoffs or Synergies? Agricultural Intensification, Economic Development and the Environment. Oxford: CABI.
- Reardon, T., E. Crawford and V. Kelly. 1995. Promoting Investment in Sustainable Intensification of African Agriculture. Michigan State University Staff Paper No. 95-18.
- Reij, C. and A. Waters-Bayer. 2001. Farmers Innovation in Africa. A Source of Inspiration for Agricultural Development. Earth Scan Publication Ltd, Sterling, VA, U.K.
- Rogers, E. M. 1962. *Diffusion of Innovations*, First Edition, Simon and Schuster.
- Ryan, B., and N. C. Gross. 1943. "The Diffusion of Hybrid Seed Corn in Two Iowa Communities". *Rural Society* 8: 15-24.

- Sa'idou, A., T. W. Kuyper, O. K. Kossou<sup>1</sup>, R. Tossou and P. Richards. 2004. "Sustainable Soil Fertility Management in Benin: Learning from Farmers". *NJAS- Wageningen Journal Life Sciences* 52: (3/4), 349-369.
- Sanchez, P. A., B. Jama, A. I. Niang and C. A. Palm. 2001. Soil Fertility, Small Farm Intensification and the Environment in Africa. In: Lee, D.R., Barrett, C.B. (Eds.), *Tradeoffs or Synergies? Agricultural Intensification, Economic Development and the Environment*. Oxford: CABI.
- Sanchez, P., A-M. Izac, I. Valenica and C. Pieri. 1996. Soil Fertility Replenishment in Africa; A Concept Note. In: breth (eds), *Proceedings of the workshop on achieving greater impact from research investments in Africa*, 26-30 September 1996.
- Sandor, J. A. and L. Furbee. 1996. "Indigenous Knowledge and Classification of Soils in the Andes of Southern Peru". *Soil Sciences Society of America Journal* 60: (1), 502-512.
- Sarwar M. N. and M. A. Goheer. 2007. "Adoption and Impact of Zero Tillage Technology for Wheat in Rice-Wheat System, Water and Cost Saving Technology." A Case Study of Pakistan (Punjab). Discussion Paper Series. No: 13. Center for Research on Poverty Reduction and income Distribution, Islamabad, Pakistan.
- Schoonmaker-Freudenberger, K. 1994. Challenges in the Collection and Use of Information on Livelihood Strategies and Natural Resource Management. In: I. Scoones & J. Thompson (eds), *Beyond Farmer First*, p.124-133. IIED. International Technology publications, Southampton Row, London, UK.
- Schultz, T. W. 1975. "The Value of the Ability to Deal with Disequilibria." *Journal of Economic Literature* 13: 827-846.
- Shekya, P. B. and J. C. Flinn, 1985. "Adoption of Modern Varieties and Fertilizer Use on Rice in the Eastern Tarai of Nepal". *Journal of Agricultural Economics* 36: 409-419.
- Shiferaw, B. and S. T. Holden. 1998. "Resource Degradation and Adoption of Land Conservation Technologies in the Ethiopian Highlands: A Case Study in Aedit Tid, North Shewa". *Agricultural Economics* 18: 233-247.
- Shultz, S., J. Faustino and D. Melgar. 1997. "Agroforestry and Soil Conservation: Adoption and Profitability in El Salvador". *Agroforestry Today* 9: 16-17.
- Simtowe, F. 2006. "Can Risk-Aversion Towards Fertilizer Explain Part of the Non-Adoption Puzzle for Hybrid Maize? Empirical Evidence from Malawi". Munich Personal RePEc Archive paper No: 1241. <http://mpra.ub.uni-muenchen.de/1241/>[Accessed on 01.01.2010].
- UNCCD, 2000. United Nations Convention to Combat Desertification. National Report on the UNCCD Implementation.

- Violic, A. D. 2000. Integrated Crop Management, p.258-260. In R. L. Paliwai and A.D.Violic, Tropical Maize improvement and production. FAO. *Plant Production and Protection Series* No. 28, 2000.
- Winters, P., B. Davis and L. Corral. 2002. "Assets, Activities and Income Generation in Rural Mexico: Factoring in Social and Public Capital". *Agricultural Economics* 27: 139-156.
- Wubeneh, N. G. and J. H. Sanders. 2006. "Farm-Level Adoption of Sorghum Technologies in Tigray". *Ethiopia Agricultural Systems* 91: 122-134.
- Yamota, J. R. G. and A. Tan-Cruz. 2007. "Farmers' Adoption of Organic Rice Farming in Magsaysay, Davao Del Sur: Factors and Practices". *Tenth National Convention on Statistics (NCS)*, Philippine, 1-2 October.
- Yapa, L. S. and R. C., Mayfield. 1978. "Non-Adoption of Innovations: Evidence from Discriminant Analysis". *Economic Geography* 54: 145-156.
- Zhou, S., T. Herzfeld, T. Glauben, Y. Zhang and B. Hu. 2008. "Factor Affecting Chinese Farmers' Decisions to Adopt a Water-Saving Technology". *Canadian Journal of Agricultural Economics* 56: 51-61.