

REFERENCES

- Abebaw, D., and K. Belay. 2001. Factors Influencing Adoption of High Yielding Maize Varieties in Southwestern Ethiopia: An application of logit. *Quarterly Journal of International Agriculture* 40 (2).
- Adunga, T. 1997. Factors Influencing the Adoption and Intensity of Use of Fertilizer: The case of Lume District, Central Ethiopia. *Quarterly Journal of International Agriculture* 36:173-187.
- Aikens. 1975. The Role of Off-farm Income and Gender Issues in Technology Adoption in Farming Families in Southern Benin. A PhD thesis submitted to University of Hohenheim, Germany. *A farming and rural systems economics* 37.
- Akinrinde, E.A. and K.A. Okeleye, 2005. Short and long Cheng Mingfang, Jin Jiyun and Huang Shaowen, 1999. Term Effects of Sparingly Soluble Phosphates on Crop Production in Two Contrasting Nigerian Alfisols. *Western Africa journal of applied ecology*, 8: 141-150.
- Akinrinde, E.A., O.S. Bello, K.O. Ayegboyin and L. Iroh, 2005. Added Benefits of Combined Organic and Mineral Phosphate Fertilizers Applied to Maize and Melon. *Journal of Food Agricultural Environment*, 3: 75-80.
- Ameniya T. 1981. Qualitative Response Models:A Survey. *Journal of Economic Literature*. 16 (December): 1483–1536.
- 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. pp 438-441.
- Bisanda, S., W. Mwangi, H. Verkuijl, A. J. Moshi, P. Anadajayasekeram. 1998. Adoption of Maize Production Technologies in Southern Highlands of Tanzania. International Maize and Wheat Improvement Center (CIMMYT), The United Republic of Tanzania, and The Southern African Centre for Cooperation in Agricultural Research (SACCAR), 38 pp.
- Byerlee, D. and E.H. Depolanco. 1986. Farmers' Stepwise Adoption of Technological Packages: Evidence from the Mexican Altiplano. *American Journal of Agricultural Economics*, 68: 519-527.

- C.C. Myint, http://www.infric.or.jp/english/KNF_Data_Base_Web/PDF%20KNF%20Conf%20Data/C1-3-005.pdf
- Cramer, J.S. 1991. *The Logit Model for Economists*. Edward Arnold, London, New York.
- C.S.O. (Central Statistics Organization). 2006. *Statistical Year Book*. Yangon, Union of Myanmar.
- C.S.O. (Central Statistics Organization). 2008. *Statistical Year Book*. Yangon, Union of Myanmar.
- 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.
- DAR (Department of Agricultural Research). 2003. Annual meeting, Department of Agricultural Research, Yezin, Nay Pyi Taw.
- DAR (Department of Agricultural Research). 2004. Annual meeting, Department of Agricultural Research, Yezin, Nay Pyi Taw.
- DAR (Department of Agricultural Research). 2005. Annual meeting, Department of Agricultural Research, Yezin, Nay Pyi Taw.
- DAR (Department of Agricultural Research). 2009. Annual meeting, Department of Agricultural Research, Yezin, Nay Pyi Taw.
- DAR (Department of Agricultural Research). 2010. Annual meeting, Department of Agricultural Research, Yezin, Nay Pyi Taw.
- Daramola B. 1989. The Study of Socio-economic Factors Influencing Fertilizer Adoption Decisions in Nigeria: A survey of Oyo State farmers. *Fertilizer Research*, 20: 143-151.
- Degu, G., W. Mwangi, H. Verkuijl, and A. Wondimu. 2000. An Assessment of the Adoption of Seed and Fertilizer Packages and the Role of Credit in Smallholder Maize Production in Sidama and North Omo Zones of Ethiopia. CIMMYT, November 2000.
- Dudal, R., and B.H. Byrnes, 1993. The Effects of Fertilizer Use on the Environment. In H. van Reuler and W.H. Prins (eds.), *The Role of Plant Nutrients for Sustainable Food Crop Production in Sub-Saharan Africa*. Leidschendam, The Netherlands: VKP (Dutch Association of Fertilizer Producers).

- Ekasingh, B., P. Gypmantasiri, K. Thong-ngam and P. Grudloyma. 2004. Maize in Thailand: Production Systems, Constraints, and Research Priorities. Mexico, D. F.: CIMMYT.
- Friensen, D.K., A.S.R. Juo and M.H. Miller, 1982. Residual Effects of Lime and Leaching of Ca in a Kaolinitic Ultisol in the High Rainfall Tropics. *Soil Sci. Soc. Am. J.*, 46: 1184-1189.
- Fufa.B and R.M. Hassan. 2006. Determinants of Fertilizer Use on Maize in Eastern Ethiopia: A weighted endogenous sampling analysis of the extent and intensity of adoption *Journal of Agricultural Economics*, 45, (1):p 47
- Guerre E, Moon HR (2004). A Study of a Semiparametric Binary Choice Model with Integrated Covariates. LSTA, niversite Paris 6 and CREST.
- Hailu Z. 1990. The Adoption of Modern Farm Practices in African Agriculture: Empirical Evidence about the Impacts of Household Characteristics and Input Supply Systems in Northern Ghana. Nyankpala Agricultural Research Report No. 7.
- Hardwick Tchale, Peter Wobst and Klaus Frohberg. 2004. Soil Fertility Management Choice in the Maize-Based Smallholder Farming System in Malawi. African Association of Agricultural Economists. Shaping the Future of African Agriculture for Development: The Role of Social Scientists. *Proceedings of the Inaugural Symposium*, 6 - 8 December 2004, Grand Regency Hotel, Nairobi, Kenya.
- Hausman, J & McFadden, D, 1984. Specification tests for the multinomial logit model. *Econometrica* 52 (5), 1219-40.
- Heisey, P.W., and W. Mwangi, 1996. Fertilizer Use and Maize Production in Sub-Saharan Africa. CIMMYT Economics Working Paper 96-01. Mexico, D.F.: CIMMYT.
- Hopper, W. D. 1993. Indian Agriculture and Fertilizer: An Outsider's Observations. Keynote address to the FAI Seminar on Emerging Scenario in Fertilizer and Agriculture: Global Dimensions. New Delhi: FAI.
- Hosmer, D.W., and S. Lemeshow. 1989. Applied Logistic Regression. New York: John Willey and Sons.
- Isham, J, 2002. The Effect of Social Capital on Fertilizer Adoption: Evidence from Rural Tanzania. *Journal of African Economics*, 11 (1): 39-48.

- John Ba Maw, Toe Aung, Ah Mar Yi, Aung Myint Tun and Thant Lwin Oo, 2000. Development of Release of High Yielding Hybrid Corn Varieties in Myanmar. In: Proc.of the Ann Res. Conf, held in Yangon, Myanmar.
- Joshi, P.K., R.L. Shiyani, M.C.S. Bantilan, P. Pathak, and G.D. Nagescuara Rao. 2002. Impact of Vertisol Technology in India. ICRISAT, Paterncheru 502324, Andhra Pradesh, India. P 1-26.
- Kaliba, A.R.M., H. Verkuijl, W. Mwangi, A.J.T. Mwilawa, P. Anandajayasekeram, and A.J. Moshi. 1998. *Adoption of Maize Production Technologies in Central Tanzania*. Mexico, D.F.: International Maize and Wheat Improvement Center (CIMMYT), the United Republic of Tanzania, and the Southern Africa Centre for Cooperation in Agricultural Research (SACCAR).
- 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.
- Kay, R.D., and W.M. Edwards, 1999. Farm management. Fourth Edition. Mc Graw-Hill Inc.
- Kumar. 1993. Online available (http://www.arpnjournals.cm/jabs/research_papers/rp_2008/jab_0308_72.pdf).
- Kumwenda, J.D.T., S.S. Snapp, V.H. Kabambe, A.R. Saka, and R.P. Ganunga. 1996. Effects of Organic Legume Residues and Inorganic Fertilizers on Maize Yield in Malawi. Target Newsletter No.7, Soil Fertility Network for Maize-Based Farming Systems, CIMMYT, Harare, Zimbabwe.
- Lindner, R. K, P. G Pardey and F.G Jarrett. 1982. Distance to Information and the Time lag to Early Adoption of Trace Element Fertilisers. *Australian Journal of Agricultural Economics* 26: 98–113.
- L. Seng Kham. 2009. Factors Influencing the Adoption of Maize Production Technologies in Selected Areas of Northern Shan State, Myanmar. M.Agr.Sc. Thesis, YAU, Yezin.
- Madalla, G.S. 1983. Limited Dependent and Qualitative Variables in Econometrics. Cambridge University Press, NewYork, 401 p.

- Matlon, P.J., and D.S.C. Spencer, 1984. Increasing Food Production in Sub-Saharan Africa: Environmental Problems and Inadequate Technological Solutions. *American Journal of Agricultural Economics* 66(5): 671-676.
- M.A.S. (Myanma Agriculture Service). 2000. Annual report of Myanmar Agriculture Service, Ministry of Agriculture and irrigation, Myanmar.
- M.O.A.I. (Ministry of Agriculture and Irrigation). 2007. Myanmar agriculture at a glance, Department of agricultural Planning, Ministry of Agriculture and irrigation, Myanmar.
- M.O.A.I. (Ministry of Agriculture and Irrigation). 2008. Myanmar agriculture at a glance, Department of agricultural Planning, Ministry of Agriculture and irrigation, Myanmar.
- M.O.A.I. (Ministry of Agriculture and Irrigation). 2009. Myanmar agriculture at a glance, Department of agricultural Planning, Ministry of Agriculture and irrigation, Myanmar.
- Morrison, M.J., McVetty, P.B.E., and Shaykewich, C.F. 1989. The Determination and Verification of a Baseline Temperature for the Growth of Western summer rape. *Canadian Journal of Plant Science*, 69:455-464.
- Namara, R.E., P. Weligamage, and R. Barker, 2003. Prospects for Adopting Systems of Rice Intensification in Sri Lanka. A socio economic assessment. *International Water Management Institute*. Research Report 75. Colombo, Sri Lanka.
- Nicholaides, J.J., P.A. Sanchez and S.W. Buol, 1983. Proposal for the Oxisol-Ultisol. Network of IBSRAM. Raleigh, North Carolina State University, pp: 16.
- Nerlove, M., S.Vosti, and W. Basel. 1994. Role of Farm Level Diversification in the Adoption of Modern Technology in Brazil. Research Report. *International Food Policy Research Institute*, Washington D.C. P 3.
- Nkamleu, G. B. and O. Coulibaly. 2000. Le choix des méthodes delutte contre les pestes dans les plantations de cacao et de café au Cameroun. *Economie Rurale* No. 259, 2000, 75-85.
- Nkamleu, G.B., and V.M.Manyong, 2005. Factors Affecting the Adoption of Agro forestry Practices by Farmers in Cameroon. *Small-scale Forest Economics, Management and Policy*. 4(2): 135-148

- Nyein Nyein Htwe. 2000. A Study on the Farmers' Technical Knowledge, Communication, and Adoption Behaviour on Rice Production Technology Package in Pyinmana Township. M.Agr.Sc. Thesis, YAU, Yezin.
- Oguntoyinbo, F.I., E.A. Aduayi and R.A. Sobulo. 1996. Effectiveness of some Local Liming Materials in Nigeria as Ameliorant of Soil Acidity. *J. Plant Nutr.*, 19: 999-1016. Oluwatoyinbo, F.I., Mls of the tropics. Properties and Appraisal. McGraw-Hall Incorporation, pp: 163- 173.
- Oluoch-Kosura, W.A., P. Phiri Marenya 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, pp: 350-355.
- Palm C.A., Myers R.J.K. and S.M. Nandwa. 1997. Combined Use of Organic and Inorganic Nutrient Sources for Soil Fertility Maintenance and Replenishment. In: Buresh R.J. et al. (eds), *Replenishing Soil Fertility in Africa*. SSSA and ASA, Madison, WI, USA, pp. 193–217.
- 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, November 4/ December 2006, p 491-500.
- Pandey, S. 1999. Adoption of nutrient management technologies for rice production: economics and institutional constraints and opportunities. *Nutrient Cycling in Agroecosystems*, 53(1): 103-111.
- Pandey, S.P. 2000. Current Soil Fertility Management Recommendations, Constraints and Opportunities for Maize based Cropping Systems in the Hills of Nepal. In: Tripathi, B.P., N.P. Rajbhandari and J.K. Ransom (eds.). *Improved Soil Fertility Management for Sustainable Maize Production – Proceedings of a Working Group Meeting of the Hill Maize Research Project*. Kathmandu: NARC and CIMMYT. Pp. 55-60.
- Polson, A. and D.S. Spencer. 1991. The Technology Adoption Process in Subsistence Agriculture: The Case of Cassava in Southern Nigeria. *Agricultural Systems* 36: 65-78.
- Ransom, J.K., and K. Paudyal. 2002. Soil Fertility Practices and Constraint to Fertilizer Adoption in the Hills of Nepal, *Proceedings of 8th Asian Regional Maize Workshop*, 5-8 August, 2002. Bangkok, Thailand.

- Ransom, J. K., K. Paudyal, and K. Adhikari. 2003. Adoption of Improved Maize Varieties in the Hills of Nepal. *Agricultural Economics*, Blackwell. 29 (3), p 299-305.
- Reardon, A. Thomas and B. Barrett Christopher. 1999. The Ambiguous Effects of Policy Reforms on Sustainable Agricultural Intensification in Africa: Renewed Threats to Fragile Margins? September 1999. <http://ssrn.com/abstract=185370>
- Rogers, E.M. 1962. Diffusion of innovations. pp.119-120.
- Salasya, B.D.S., W. Mwangi, H. Verkuil, M.A Odendo, and J.O Odenya. 1998. An Assessment of the Adoption of Seed and Fertilizer Packages and the Role of Credit in Smaller Maize Production in Kakamega and Vihiga Districts, Kenya. <http://www.cimmyt.org/english/docs/eco-wpaper/coast Kenya/pdf/ P 1-26>.
- Sanders J.H. and Ahmed M, 2001. Developing a Fertilizer Strategy for Sub-Saharan Africa Sustainability of Agricultural Systems in Transition. ASA Special Publication no. 64. ASA-CSSA-SSSA, Madison, WI, USA, pp. 173–181.
- Sanchez, P.A. 1976. Properties and Management of Soils in the Tropics. JohnWiley, NewYork, USA.
- Sanchez, P.A., A-M.Izac, I. Valenica and C. Pieri.1997. 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, Addis Ababa, Ethiopia.
- 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.
- Shields et al., (1993). Technology Adoption: Literature Review. Chapter 2. <http://www.etsd02.inx390.su.edu/docs/available/etd-1112102-18055/unrestricted/Chapter-Two-pdf>. P 29-42.
- 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].
- Singh U., Diels J., Henao J. and H. Breman, 2001. Decision Support Systems for Improving the Application of Integrated Nutrient Management Technologies. In: Tian et al. (eds), *Sustaining Soil Fertility in West Africa*. SSSA Special

Publication no. 58. Soil Science Society of America and American Society of Agronomy, Madison, WI, USA, pp. 305–321.

Smale, M., P.W. Heisey, and H.D. Leathers. 1995. Maize of the Ancestors and Modern Varieties: The Microeconomics of High-Yielding Variety Adoption in Malawi. *Economic Development and Cultural Change*, 43: 351-360.

S.HtayWin, Online (Available <http://www.fao.org/docrep/010/ag120e/AG120E23.htm>)

Theingi Myint. 2001. Analysis of Constraints and Technical Efficiency of Irrigated Rice Production System. M.Agr.Sc. Thesis. Yezin Agricultural University (YAU), Yezin, Myanmar. P 11.

Thin Thin Aye. 2004. Economic Analysis on Adoption of Improved Cotton Production Technology Packages in Meiktila Township: A Case Study of Pre-monsoon Cotton Farmers. M.Agr.Sc. Thesis, YAU, Yezin.

Thirtle, C., L. Beyers, Y. Ismael, and J. Piesse. 2003. Can GM-Technologies Help the Poor? The Impact of Bt. Cotton in Makhathini Flats, Kwazulu-Natal. *World Development* Vol. 31, No.4, pp: 717-732. Elsevier Science Ltd., Great Britain.

Tin Cho Cho Myat. 2004. Economic Analysis on Adoption of Improved Production Technology for Selected Sugarcane Farmers. M.Agr.Sc. Thesis, YAU, Yezin.

Tomich, T.P., P. Kilby, and B.F. Johnston. 1995. *Transforming Agrarian Economies: Opportunities Seized, Opportunities Missed*. Ithaca, N.Y.: Cornell University Press.

Tse, YK, 1987. A Diagnostic Test for the Multinomial Logit Model. *Journal of Business and Economic Statistics* 5 (2), 283–86.

Viyas, V.S. 1983. Asian Agriculture: Achievements and Challenges, *Asian Development Review* 1 (1), pp; 27-44.

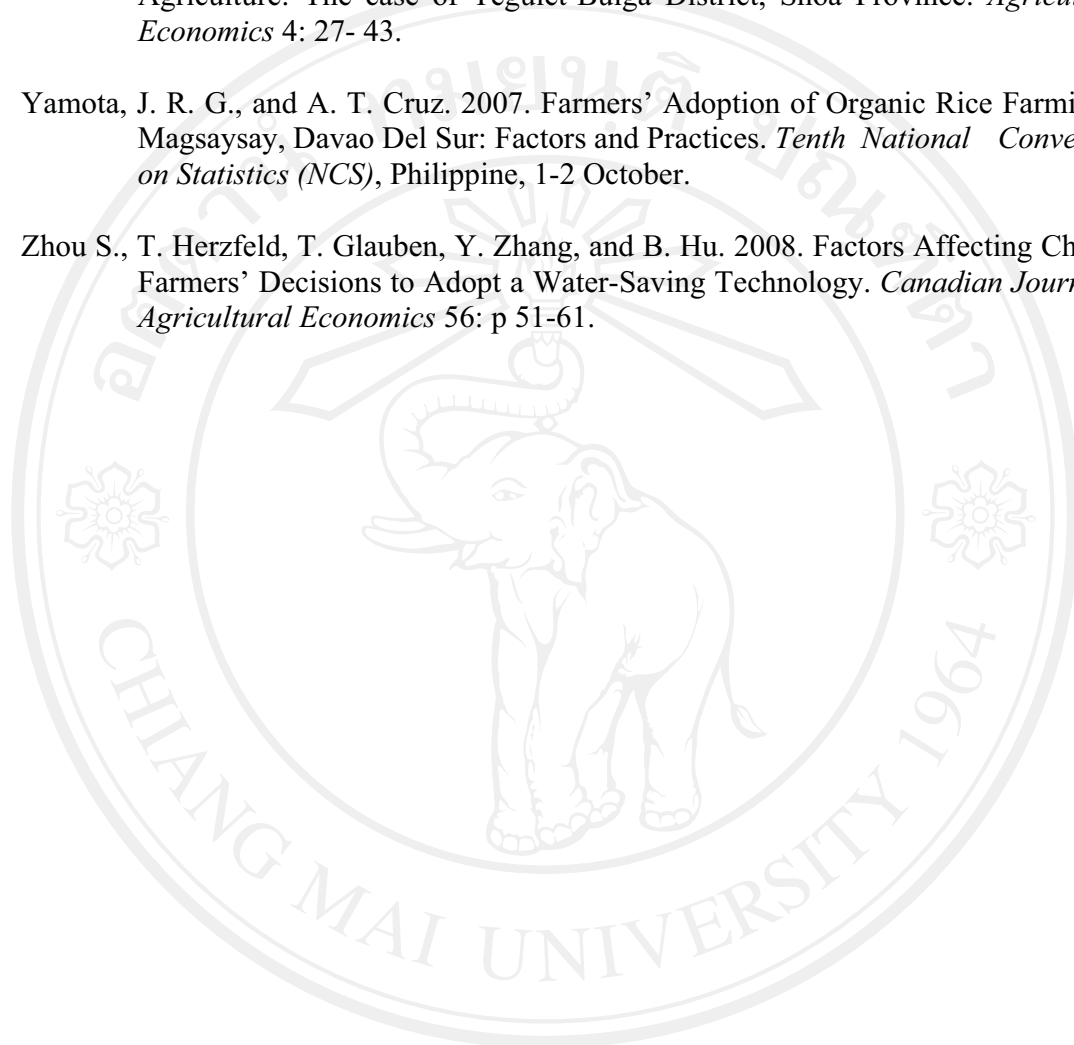
Wang, Feng Qin, WChen, Wen-Ming, de Faria, Sergio M., James, Euan K., Elliott, Geoffrey N., Lin, Kuan-Yin, Chou, Jui-Hsing, Sheu, Shih-Yi, Cnockaert, M., Sprent, Janet I., Vandamme, Peter. 2007. *Burkholderia nodosa* sp. nov., Isolated from Root Nodules of the Woody Brazilian Legumes *Mimosa bimucronata* and *Mimosa scabrella* *Int J Syst Evol Microbiol*, May 2007; 57: 1055 - 1059. Abstract

Wubeneh, N.G., and Sanders, J.H. 2006. Farm-level Adoption of Sorghum Technologies in Tigray, Ethiopia. *Agricultural Systems* 91:122-134.

Yahanse, K., K. Gunjal and G. Coffin. 1990. Adoption of New Technologies in Ethiopian Agriculture: The case of Tegulet-Bulga District, Shoa Province. *Agricultural Economics* 4: 27- 43.

Yamota, J. R. G., and A. T. 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.

Zhou S., T. Herzfeld, T. Glauben, Y. Zhang, and B. Hu. 2008. Factors Affecting Chinese Farmers' Decisions to Adopt a Water-Saving Technology. *Canadian Journal of Agricultural Economics* 56: p 51-61.



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