

Refereed Publications:

Griffin, Terry, J. Lowenberg-DeBoer, "Impact of Automated Guidance for Mechanical Control of Herbicide Resistant Weeds in Corn," *Journal of Applied Farm Economics* 1 (2) (2017), p. 62-74.

Ouraich, Ismail, J. Lowenberg-DeBoer, Alseny Soumah and Diawo Diallo, "Employment Prospects for Agricultural Graduates in Guinea Conakry," *Journal of Agricultural Extension and Rural Development*, 9 (1) (2017), p. 5-13.

Nouhoheflin, Theodore, Jeanne Y. Coulibaly, Stephen D'Alessandro, Codjo C. Aitchedji, Maiyaki Damisa, Dieudonné Baributsa, and James Lowenberg-DeBoer, "Management Lessons Learned In Supply Chain Development: The Experience of PICS Bags in West and Central Africa," *International Food and Agribusiness Management Review*, 20(3) (2017), p. 427-438.

Jones, Michael, C. Alexander, J. Ricker-Gilbert, N. Olynk, J. Lowenberg-DeBoer, "Do Insect and Mold Damage Affect Maize Prices in Africa? Evidence from Malawi," *Modern Economy*, 7 (2016), p. 1168-1185.

Gbèbèlègbè, S.D., J. Lowenberg-DeBoer, R. Adeoti, J. Lusk and O. Coulibaly, "The Estimated Ex Ante Economic Impact of Bt Cowpea in Niger, Benin, and Northern Nigeria," *Agricultural Economics*, 46 (2015), p. 563-577 DOI:10.1111/agec.12182.

Ibro, Germaine, Marie Claire Sorgho, Amina Aminu Idris, Bokar Moussa, Dieudonne Baributsa, J. Lowenberg-DeBoer, Adoption of cowpea hermetic storage by women in Nigeria, Niger and Burkina Faso, *Journal of Stored Product Research* 58 (2014), p. 87-96.

Baributsa, Dieudonne, Tahirou Abdoulaye, J. Lowenberg-DeBoer, Clementine Dabire, Bokar Moussa, Ousmane Coulibaly, Market Building for Post-harvest Technology through Large-scale Extension Efforts. *Journal of Stored Product Research* 58 (2014), p. 59-66.

Moussa, Bokar, Tahirou Abdoulaye, Ousmane Coulibaly, Dieudonne Baributsa, and J. Lowenberg-DeBoer, Adoption of on-farm hermetic storage for cowpea in West and Central Africa. *Journal of Stored Product Research*, 58 (2014), p. 77-86.

Jones, Michael, Corinne Alexander, J. Lowenberg-DeBoer, A simple methodology for measuring profitability of on-farm storage pest management in developing countries. *Journal of Stored Product Research* 58 (2014), p. 67-76.

Baributsa, Dieudonné, Abdou Kamarou, Ibrahim Baoua, Bokar Moussa and J. Lowenberg-DeBoer, The Fate of Triple-layer Plastic Bags Used for Cowpea Storage, *Journal of Stored Product Research* 58 (2014), p.97-102.

Griffin, Terry, Mark Tyler, Craig Dobbins and J. Lowenberg-DeBoer, "Estimating Whole Farm Costs of Conducting On-Farm Research on Midwestern US Corn and Soybean Farms: A Linear Programming Approach," *International Journal of Agricultural Management*, 4:1 (2014), p. 21-26.

Baoua, Ibrahim, L. Amadou, J. Lowenberg-DeBoer, L. L. Murdock. Side by side comparison of GrainPro and PICS bags for postharvest preservation of cowpea grain in Niger, *Journal of Stored Products Research*, 54 (2013), p 13-16

Baributsa, Dieudonné, Clementine Dabiré, Karim Sawadogo and J. Lowenberg-DeBoer, “Increasing Women’s Participation in Cowpea Storage Activities: The Case of Burkina Faso,” *Journal of Agricultural Extension and Rural Development*, 5(10 (November 2013), p. 232-239.

(http://www.academicjournals.org/article/article1384263442_Baributsa%20et%20al.pdf)

Delbecq, Benoit A., Jason P. Brown, Raymond J. G. M. Florax, Eileen J. Kladivko, Adela Nistor and J. Lowenberg-DeBoer, “The Impact of Drainage Water Management Technology on Corn Yields,” *Agronomy Journal*, 104(4) (2012), p. 1100-1109.

Otoo, Miriam, Germaine Ibro, Joan Fulton and J. Lowenberg-DeBoer, “Micro-Entrepreneurship in Niger: Factors Affecting Success of Women Street Food Vendors,” *Journal of African Business*, 13(1) (2012), p. 16-28.

Mishili, Fulgence, Anna Temu, Joan Fulton and J. Lowenberg-DeBoer, “Consumer Preferences as Drivers of the Common Bean Trade in Tanzania: A Marketing Perspective.” *Journal of International Food and Agribusiness Marketing*, 23(2) (2011), p. 110-127.

Bokar Moussa, J. Lowenberg-DeBoer, J. Fulton and Kathryn Boys, “The Economic Impact of Cowpea Research in West and Central Africa: A Regional Impact Assessment of Improved Cowpea Storage Technologies,” *Journal of Stored Products Research* 47 (2011), p. 147-156.

Moussa, Bokar, Miriam Otoo, Joan Fulton, and J. Lowenberg-DeBoer, “Effectiveness of Alternative Extension Methods through Radio Broadcasting in West Africa,” *Journal of Agricultural Education and Extension*, 17(4) (2011), p. 355-369.

Maine, N., J. Lowenberg-DeBoer, W.T. Nell, and Z.G. Alemu, “Impact of Variable-Rate Application of Nitrogen on Yield and Profit: A Case Study from South Africa.” *Precision Agriculture Journal*, 11(5) (2010), p. 448-463.

Lowenberg-DeBoer, James and Bruce Erickson, “The Search for the Killer App: Precision Farming in Africa.” *Georgetown Journal of International Affairs*, 11(2) (2010), p. 107-116.

Griffin, Terry, Craig Dobbins, Raymond Florax, J. Lowenberg-DeBoer, and Tony Vyn, “Spatial Analysis of Precision Agriculture Data: Role for Extension.” *NACAA Journal*, 3(1) (2010), <http://www.nacaa.com/journal/index.php?jid=40>.

Tenkorang, Frank, and J. Lowenberg-DeBoer, “Forecasting Long Term Global Fertilizer Demands.” *Nutrient Cycling in Agroecosystems*, 83 (2009), p. 233-247.

Mishili, Fulgence, Joan Fulton, Musa Shehu, Saket Kushwaha, Kofi Marfo, Mustafa Jamal, Alpha Chergna and J. Lowenberg-DeBoer, “Consumer Preferences for Quality Characteristics Along the Cowpea Value Chain in Nigeria, Ghana and Mali.” *Agribusiness: An International Journal*, 25(1) (2009), p. 16-35.

Ibro, Germaine, Ramatou Seydou, Kaka Saley, Kira Everhart-Valentin, Joan Fulton, James Lowenberg-DeBoer, and Miriam Otoo, “Testing the Market Potential for a New Value-Added Cowpea Product to Improve the Well-Being of Women Entrepreneurs in Niger.” *Journal of International Agriculture Extension and Education*, 16(1) (2009), p. 43-56.

Griffin, Terry W., Craig L. Dobbins, Tony J. Vyn, Raymond J.G.M. Florax and J.M. Lowenberg-DeBoer, “Spatial Analysis of Yield Monitor Data: Case Studies of On-Farm Trials and Farm Management Decision Making.” *Precision Agriculture*, 9 (2008), p.

269-283.

Tenkorang, Frank, and J. Lowenberg-DeBoer, "On-Farm Profitability of Remote Sensing in Agriculture." *Journal of Terrestrial Observation*, 1(1) (2008), p. 50-59.
<http://docs.lib.psu.edu/cgi/viewcontent.cgi?article=1025&context=jto>

Saket Kushwaha, A.S. Musa, James Lowenberg-DeBoer, Joan Fulton, "Consumer Acceptance of GMO Cowpeas in Sub-Saharan Africa." *Journal of International Food and Agribusiness Marketing*, 20(4) (2008), p. 7-23.

Boys, Kathryn., Mbene Faye, Joan. Fulton, and J. Lowenberg-DeBoer, "The Economic Impact of Cowpea Research in Senegal: An Ex-Post Analysis with Disadoption," *Agricultural Economics*, 36 (2007), p. 363-375.

Bullock, David, and J. Lowenberg-DeBoer, "Using Spatial Analysis to Study the Values of Variable Rate Technology and Information." *Journal of Agricultural Economics*, 58(3) (2007), p. 517-535.

Lambert, D.M., J. Lowenberg-DeBoer, and G. Malzer, "Managing Phosphorous Soil Dynamics over Space and Time." *Agricultural Economics*, 37 (2007), p. 43-53.

Urcola, Hernan, J. Lowenberg-DeBoer, "A Stochastic Dominance Method for Incorporating Yield Monitor Data into the Hybrid and Variety Decisions of Argentinean Farmers." *Computers and Electronics in Agriculture*, 58(1) (August 2007), p. 4-12.

Nistor, Adela and J. Lowenberg-DeBoer, "Drainage Water Management Impact on Farm Profitability." *Journal of Soil and Water Conservation*, 66(6) (Nov./Dec. 2007), p. 443-446.

Maine, N, W.T. Nell, J. Lowenberg-DeBoer, and Z.G. Alemu, "Economic Analysis of Phosphorus Application Under Variable and Single-Rate Applications in the Bothaville District." *Agrekon*, 46(4) (Dec. 2007), p. 532-547.

Lambert, Dayton, J. Lowenberg-DeBoer and Gary Malzer, "Economic Analysis of Spatial-Temporal Patterns in Corn and Soybean Response to Nitrogen and Phosphorous." *Agronomy Journal*, 98 (2006), p.43-54.

Faye, M., A. Jooste, J Lowenberg-DeBoer and J. Fulton, "Impact of Sucrose Contents and Cooking Time on Cowpea Prices in Senegal." *South African Journal of Economic and Management Sciences*, 9(2) (June 2006), pp. 207-212.

Langyintuo, Augustine, and J. Lowenberg-DeBoer, "Potential Regional Trade Implications of Adopting Bt Cowpea in West and Central Africa." *AgBioForum*, 9(2), 2006, p. 111-120. (<http://www.agbioforum.org/>)

Erickson, Bruce, Fulgence Mishili, and J. Lowenberg-DeBoer, "Value of More Uniform Nitrogen Application Across the Toolbar." *Crop Management*, 2005.
(<http://www.plantmanagementnetwork.org/cm/element/cmsum2.asp?id=4872>).

Fountas, S., D.R. Ess, C.G. Sorensen, S.E. Hawkins, H.H. Pedersen, B.S. Blackmore and J. Lowenberg-DeBoer, "The Current Status of Precision Agriculture in Denmark and Indiana, USA." *Precision Agriculture*, 6 (2005), p. 121-141.

Langyintuo, A.K., A.K. Yiridoe, W. Dogbe and J. Lowenberg-DeBoer, "Yield and Income Risk Efficiency Analysis of Alternative Fallow Systems for Risk Production in the Guinea Savannah of Northern Ghana." *Agricultural Economics*, 32 (2005), p. 141-150.

Hamadou, S., M. Kamuanga, T.A. Abdoulaye, and J. Lowenberg-DeBoer, "Facteurs Affectant L'adoption des Cultures Fourragères dans Élevages Laitiers Périurbains de Bobo-Dioulasso (Burkina Faso)." *Tropiculture*, 23 (2005), p. 29-35.

Tre, J.P. and J. Lowenberg-DeBoer, "Ex-Ante Economic Analysis of Alternative Biomass Management Systems for Continuous Plantain Production in Southeastern Nigeria." *Agricultural Systems*, 86 (2005), p. 52-75.

Langyintuo, A., J. Lowenberg-DeBoer and C. Arndt, "Potential Impacts of the Proposed West African Monetary Zone on Cowpea Trade." *Agricultural Economics*, 33 (2005), p. 411-421.

Griffin, Terry, and J. Lowenberg-DeBoer, "Worldwide Adoption and Profitability of Precision Agriculture: Implications for Brazil." *Revista de Politica Agricola*, 14(4) (2005), p. 20-38.

http://www.embrapa.br/a_embrapa/unidades_centrais/sge/publicacoes/tecnico/revistaAgricola/index_htm

Faye, M., A. Jooste, J Lowenberg-DeBoer and J. Fulton, "The Influence of Cowpea Characteristics on Cowpea Prices in Senegal." *Agrekon*, 43(4) (December 2004), p. 418-425.

Adamchuk, Viacheslav, Mark Morgan and J. Lowenberg-DeBoer, "A Model for Agro-Economic Analysis of Soil pH Mapping." *Precision Agriculture*, 5 (2004), p. 111-129.

Anselin, L., R. Bongiovanni and J. Lowenberg-DeBoer, "A Spatial Econometric Approach to the Economics of Site-Specific Nitrogen Management in Corn Production." *American Journal of Agricultural Economics*, 86 (2004), p. 675-687.

Bongiovanni, Rodolfo, and J. Lowenberg-DeBoer, "Precision Agriculture and Sustainability." *Precision Agriculture*, 5 (2004), p. 359-387.

Lambert, D., J. Lowenberg-DeBoer and R. Bongiovanni, "A Comparison of Four Spatial Regression Models for Yield Monitor Data: A Case Study from Argentina." *Precision Agriculture*, 5 (2004), p. 579-600.

Langyintuo, A., G. Ntoukam, L. Murdock, J. Lowenberg-DeBoer and D. J. Miller, "Consumer Preference for Cowpea in Cameroon and Ghana." *Agricultural Economics*, 30 (2004), p. 203-213.

O'Neal, Monte, Jane Frankenberger, Dan Ess and J. Lowenberg-DeBoer, "Profitability of On-Farm Precipitation Data for Nitrogen Management Based on Crop Simulation." *Precision Agriculture*, 5 (2004), p. 153-178.

Lambert, Dayton and J. Lowenberg-DeBoer, "Economic Analysis of Row Spacing for Corn and Soybeans." *Agronomy Journal*, 95 (2003), p. 564-573.

Langyintuo, A., J. Lowenberg-DeBoer, M. Faye, D. Lambert, G. Ibro, B. Moussa, A. Kergna, S. Kushwaha and G. Ntoukam, "Cowpea Supply and Demand in West Africa." *Field Crops Research*, 82 (2003), p. 215-231.

Bullock, David, J. Lowenberg-DeBoer and Scott Swinton, "Adding Value to Spatially Managed Inputs by Understanding Site-Specific Yield Response." *Agricultural Economics*, 27 (2002) p. 233-245.

- Abdoulaye, Tahirou, and J. Lowenberg-DeBoer, "Intensification of Sahelian Farming Systems: Evidence from Niger." *Agricultural Systems*, 64 (2000), p. 67-81.
- Bongiovanni, Rodolfo, and J. Lowenberg-DeBoer, "Economics of Variable Rate Lime in Indiana." *Precision Agriculture*, 2(1) (2000), p. 55-70.
- Lowenberg-DeBoer, "Comment on "Site-Specific Crop Management: Adoption Patterns and Incentives." *Review of Agricultural Economics*, 22(1) (2000), p. 245-247.
- Zougmoré, Robert, Daniel Kaboré and J. Lowenberg-DeBoer, "Optimal Spacing of Soil Conservation Barriers: Example of Rock Bunds in Burkina Faso." *Agronomy Journal*, 92(2) (2000), p. 361-368.
- Hallman, Alan, and J. Lowenberg-DeBoer, "Cost, Average Returns and Riskiness of Switching to Narrow Row Corn." *Journal of Production Agriculture*, 12 (October-December 1999), pp. 685-691.
- Lowenberg-DeBoer, J. and Anthony Aghib, "Average Returns and Risk Characteristics of Site-Specific P & K Management: Eastern Corn Belt On-Farm Trial Results." *Journal of Production Agriculture*, 12 (1999), p. 276-282.
- Lowenberg-DeBoer, J., "Risk Management Potential of Precision Farming Technologies." *Agricultural and Applied Economics*, 31(2) (August, 1999), p. 275-285.
- Swinton, S.M. and J. Lowenberg-DeBoer, "Evaluating the Profitability of Site-Specific Farming." *Journal of Production Agriculture*, 11 (1998), p. 439-446.
- Doering, Otto, Michael Habeck, J. Lowenberg-DeBoer, J. C. Randolph, Jerry J. Johnson, Bill Z. Littlefield, Michael Mazzacco, Mamweni Kinwa and Rebecca Pfeifer, "Mitigation Strategies and Unforeseen Consequences: A Systematic Assessment of the Adaption of Upper Midwest Agriculture to Future Climate Change." *World Resources Review*, 9(4) (1997), p. 447-459.
- Hien, Victor, Daniel Kaboré, Sansan Youl and J. Lowenberg-DeBoer, "Stochastic Dominance Analysis of On-Farm-Trial Data: The Riskiness of Alternative Phosphate Sources in Burkina Faso." *Agricultural Economics*, 15(3) (January 1997), p. 213-221.
- Nagarajan, Kumar, R.J. O'Neil, C.R. Edwards, J. Lowenberg-DeBoer, "Indiana Soybean System Model (ISSM): II Mexican Bean Beetle Model Development and Validation." *Agricultural Systems*, 45 (1994), p. 291-313.
- Ziyou, Yu, R. Deuson, E. Bomans and J. Lowenberg-DeBoer, "Analysis of the Competition for Labor by Dryland and Irrigated Crops: the Case of Rice and Millet in Niger" *Journal of Farming Systems Research and Extension*, 4 (1994), p. 27-44.
- Ibro, Germaine, J. Lowenberg-DeBoer, K.C. Reddy, and Seyni Maïga, «Comparison des Méthodes de Traitement Phytosanitaires de Niébé.» *Systèmes Agricoles en Afrique*, 3 (1993), p. 33-41.
- Nagarajan, Kumar, R. J. O'Neil, J. Lowenberg-DeBoer and C. R. Edwards, "Indiana Soybean System Model (ISSM): I. Crop Model Evaluation" *Agricultural Systems*, 43 (1993), p. 357-379.
- Foltz, John C., Marshall A. Martin, and Jess Lowenberg-DeBoer, "Inclusion of Alfalfa (*Medicago Saliva L.*) in Crop Rotations in the Eastern Corn Belt: Some Environmental and Economic Implications." *Journal of Sustainable Agriculture*, 2(2) (1991), p. 117-133.

- Jomini, Patrick, Robert Deuson, J. Lowenberg-DeBoer, and André Batiano, "Modeling Stochastic Crop Response to Fertilization When Carryover Matters." *Agricultural Economics*, 6 (1991), p. 97-113.
- Lowenberg-DeBoer, J., M. Krause, R.R. Deuson and K.C. Reddy, "Simulation of Yield Distributions in Millet-Cowpea Intercropping." *Agricultural Systems*, 36 (1991), p. 471-487.
- Krause, M.A., R. R. Deuson, T.G. Baker, P.V. Preckel, J. Lowenberg-DeBoer, K.C. Reddy, and M. Kadi, "Risk Sharing Versus Low Cost Credit Systems for International Development: The Nigerien Case." *American Journal of Agricultural Economics*, 72 (1990) p. 911-922.
- Lowenberg-DeBoer, J. and Miguel Lopez-Pereira, "Risk Assessment for Herbaceous Biomass Crops: The Case of Perennial Grasses." *Biomass*, 23 (1990), p. 125-152.
- Ngambeki, D.S., R.R. Deuson, and J. Lowenberg-DeBoer, "The Impact of Farming Systems Research on Agricultural Productivity: A Case of Northern Cameroon." *Journal of Farming Systems Research/Extension*, 1 (1990), p. 125-152.
- Ziyou Yu, Jay T. Akridge, Michael N. Dana, and J. Lowenberg-DeBoer, "An Economic Evaluation of Horticultural Alfalfa as a Substitute for Sphagnum Peat Moss." *Agribusiness*, 6 (1990), p. 443-462.
- Lowenberg-DeBoer, J. and J.H. Cherney, "Biophysical Simulation for Evaluating New Crops: The Case of Switchgrass for Biomass Energy Feedstock." *Agricultural Systems*, 29 (1989), p. 233246.
- Lowenberg-DeBoer, J., Allen M. Featherstone, and David J. Leatham, "Nonfarm Equity Capital Financing of Production Agriculture." *Agricultural Finance Review*, 49 (1989), p. 92104.
- Lowenberg-DeBoer, J., Germaine Ibro, Robert Deuson and Peter Ensink, «Integration des Donnees Biologique et Economique dans l'Evaluation des Technologies Agricole en Terre Aride» *Les Cahiers de la Recherche Développement*, 22 (1989), p. 96102.
- Turvey, Calum and J. Lowenberg-DeBoer, "Farm to Farm Productivity Differences and Whole Farm Production Functions." *Canadian Journal of Agricultural Economics*, 36 (1988), p. 295312.
- Lowenberg-DeBoer, J. and Michael Boehlje, "The Distributional Impact of 1981 and 1982 Federal Income Tax Legislation: Which Farmers Benefit?" *Northeastern Journal of Agricultural and Resource Economics*, 16 (April 1987), p. 44-53.
- Lowenberg-DeBoer, J. and Calum Greig Turvey, "A Note on the Changing Tax Treatment of Farmland Capital Gains and Losses in Canada and the United States." *Canadian Journal of Agricultural Economics*, 35 (3) (November 1987), p. 604615.
- Lowenberg-DeBoer, J. and Michael Boehlje, "The Impact of Farmland Price Changes on Farm Size and Financial Structure." *American Journal of Agricultural Economics*, 68(4) (November 1986), p. 838-848.
- Lowenberg-DeBoer, J., Sandra Johnson Monson and Michael Boehlje, "The Estate Tax Provisions of the 1981 Economic Recovery Tax Act: Which Farmers Benefit?" *Southern Journal of Agricultural Economics*, 17(2) (December 1985), p. 77-86.
- Lowenberg-DeBoer, J. and Michael Boehlje, "Evaluation of State Legislative Programs to Assist Beginning Farmers." *Agricultural Finance Review*, 43 (1983), p. 9-20.

Lowenberg-DeBoer, J. and B.F. Stanton, "Getting Started in Farming, 1910, 1930, 1950 and 1978: Is It More Difficult?" *Journal of the Northeastern Agricultural Economics Council*, 12(1) (Spring 1983), p. 1-6.