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KEY QUALIFICATIONS:

Dr. Lowenberg-DeBoer has 30 years of worldwide experience in agricultural research, teaching, outreach and administration. His research focuses on the economics of agricultural technology. He has published 82 articles in refereed journals, two books and chapters in seven other books. He is a pioneer in the use of spatial regression in analysis of crop sensor data with published work in this area from the U.S., Argentina and South Africa. He is PI for the Purdue Improved Cowpea Storage (PICS) project funded by the Bill & Melinda Gates Foundation. In 2012 he was made a Chevalier of the National Order by the government of Burkina Faso for his work improving food security in the country in PICS. From 1997 to 2007 he was West Africa facilitator for the USAID Bean/Cowpea Collaborative Research Support Program (CRSP) working to build multidisciplinary teams and supervising CRSP social science research and outreach in that region. From 1988 to 1992 he served as economist and team leader of a USAID-funded institution building project in Niger. From 1992 to 1994 he was campus coordinator for the Agricultural Research and Training Support (ARTS) project in Burkina Faso. His work has taken him to Afghanistan, Angola, Argentina, Australia, Bangladesh, Benin, Brazil, Bulgaria, Burkina Faso, Cambodia, Cameroon, Canada, Chad, Chile, Peoples Rep. of China, Colombia, Costa Rica, Côte d'Ivoire, Egypt, Ethiopia, France, Germany, Ghana, Guinea, The Netherlands, India, Italy, Israel, Jordan, Kenya, Lebanon, Lesotho, Liberia, Malawi, Mali, Mauritania, Morocco, Mozambique, Myanmar, Nepal, Nicaragua, Niger, Nigeria, Palestine, Philippines, Qatar, Republic of Georgia, Senegal, Sierra Leone, South Africa, South Sudan, Spain, Swaziland, Sweden, Syria, Tajikistan, Tanzania, Togo, Uganda, Ukraine, and Zimbabwe. He brings to his research, teaching, outreach and administration a perspective gained through private sector experience as a farmer and journalist.

EDUCATION:

Ph.D. Agricultural Economics, Iowa State University, Ames, Iowa, 1985
M.S. Agricultural Economics, Cornell University, Ithaca, New York, 1982
B.A. Journalism and Comparative Literature, University of Iowa, Iowa City, Iowa, 1979

LANGUAGES:

English – fluent
French – fluent
German – rusty
Hausa – basic

PROFESSIONAL EXPERIENCE:

2016 to present	College of Agriculture Professor of Excellence in International Entrepreneurship
2006 to 2015	Associate Dean and Director of Purdue International Programs in Agriculture (IPIA). Responsible for coordinating all international activities of the Purdue College of Agriculture including international research, international engagement and study abroad (www.agriculture.purdue.edu/ipia). During his time at IPIA grant and contract expenditures grew from about \$0.5 million annually to about \$6 million. Internal university general funds budget was roughly constant at about \$0.5 million during this period. He oversees an on-campus staff that averages 12, and international staff based outside the US as required for project implementation.
2004 – 2006	Interim Associate Dean and Director of Purdue International Programs in Agriculture.
2000 - 2006	Director, Site-Specific Management Center, School of Agriculture, Purdue University. Responsible for coordinating a team of fifteen faculty members working on applications of information technology in agriculture (e.g. Global Positioning Systems – GPS, Geographic Information Systems – GIS, Remote Sensing) (www.purdue.edu/ssmc).
1998 - Present	Professor, Department of Agricultural Economics, Purdue University. Duties in research, extension, and teaching.
1990-1998	Associate Professor, Department of Agricultural Economics, Purdue University. Duties in research, extension, and teaching.
1997-2007	West Africa Facilitator, Bean/Cowpea Collaborative Research Support Program (CRSP). Responsible for coordinating CRSP social science in West Africa and facilitating multidisciplinary collaboration.
1992-1994	Campus Coordinator, Burkina Faso Agricultural Research and Training Support Project.
1991-1992	Chief of Party and Agricultural Economist, USAID Niger Applied Agricultural Research Project in Niamey, Niger. Chief-of-party duties included management of local project activities, serving as advisor to the Director General and senior INRAN staff, and supervision, in collaboration with the INRAN Training Coordinator, of long- and short-term training activities of the project. About 75% of the time

dedicated to the duties of chief of party and the other 25% in fulfilling the role of agricultural economist as described below.

- 1988-1991 Agricultural Economist, USAID Niger Applied Agricultural Research Project in Niamey, Niger. Working with counterpart Nigerian economists in the Department of Research in Rural Economics (DECOR), encouraging the development of a strong interdisciplinary research program on both rainfed and irrigated farming systems; work with rural sociologist to extend the on-farm research program and developing rapid reconnaissance techniques for this program; determining economic viability of themes proposed for extension.
- 1985-1990 Assistant Professor, Department of Agricultural Economics, Purdue University. Duties in research, teaching, and extension. Research focused on technology assessment and analysis of production and finance interactions. Taught the basic graduate-level agricultural production economics course. Extension activities mainly in cooperation with the Agronomy Department and focused on helping farmers evaluate production systems.
- 1981-1985 Graduate Assistant and Instructor, Department of Economics, Iowa State University. Coordinator of project assessing the impact of income and estate taxes on farm management. The project involved three other students. Taught undergraduate and graduate agricultural finance.
- 1981 Graduate Research Assistant, Cornell University, Department of Agricultural Economics. Research on the financial problems of beginning farmers.
- 1979-1980 News manager, Sheldon Mail and Sun newspaper, Sheldon, Iowa. Covered agriculture and supervised work of four other reporters and several free-lance writers.
- 1977-1979 Completed undergraduate work at University of Iowa. Various part-time journalism jobs, including summer position as farm editor of Cedar Rapids, Iowa, Gazette.
- 1972-1976 Self-employed farmer near Rock Rapids, Iowa. Produced corn, soybeans, alfalfa, hogs and sheep.
- 1971 Farm Apprentice for Landwirt Wilt Lubbers, Woltzeten, West Germany.

AWARDS:

Phi Beta Kappa
Sage Fellowship, 1981-82, Cornell University
Pace Award, Iowa State University, 1982
Research Excellence Award, Iowa State University, 1985

Temoinage Official de Satisfaction (Official Testimonial of Satisfaction) Ministry of Agriculture, Republic of Niger, 1992
Quality of Communication Award, American Society of Agronomy, 2001
Siteliner Award, Croplife Magazine, Meister Publications, 2001
Precision Agriculture Legacy Award, 2010
Purdue College of Agriculture TEAM Award for the Purdue College of Agriculture Afghanistan Team, 2011
International IPM Award, 2012, IPM Symposium Steering Committee
Chevalier De L'Ordre National, Government of Burkina Faso, 2012
Best Paper Award, Journal of African Business, 2013

PROFESSIONAL SERVICE:

Technical Committee, Bean/Cowpea Collaborative Research Support Program, 1997 - 2007.
Board of Directors, International Sorghum and Millet Collaborative Research Support Program (INTSORMIL), 2004 – 2012. Chair, 2007 - 2009.
Board of Directors, Peanut CRSP, 2004 - 2010. Chair, 2009-2010.
Board of Directors, Sustainable Agriculture and Natural Resource Management Collaborative Research Support Program (SANREM), 2005 - 2009.
Associate Editor, *Journal of Production Agriculture*, 1992-1998
Associate Editor, *Agronomy Journal*, 1998 to 2004
Reviewed manuscripts in the last ten years for:

African Journal of Business Management
Agricultural Economics
Agricultural Systems
Archives of Agronomy and Soil Science
Food Policy
Food & Nutrition Bulletin
Journal of Agricultural and Resource Economics
Journal of Agricultural Economics
Nutrient Cycling in Agroecosystems
Precision Agriculture
Global Food Systems

LIST OF PUBLICATIONS

1. Refereed Journal Articles

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.

- 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., 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, "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. 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. 604-615.
- Turvey, Calum and J. Lowenberg-DeBoer, "Farm to Farm Productivity Differences and Whole Farm Production Functions." *Canadian Journal of Agricultural Economics*, 36 (1988), p. 295-312.
- 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. 233-246.
- Lowenberg-DeBoer, J., Allen M. Featherstone, and David J. Leatham, "Nonfarm Equity Capital Financing of Production Agriculture." *Agricultural Finance Review*, 49 (1989), p. 92-104.
- 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. 96-102.
- 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.

- Foltz, John C., Marshall A. Martin, and Jess Lowenberg-DeBoer, "Inclusion of Alfalfa (*Medicago Sativa* 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.
- 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.
- 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.
- Ziyu, 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.
- 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.
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- 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.

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- Lowenberg-DeBoer, "Comment on "Site-Specific Crop Management: Adoption Patterns and Incentives." *Review of Agricultural Economics*, 22(1) (2000), p. 245-247.
- Zougmore, 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.
- 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.
- Lambert, Dayton and J. Lowenberg-DeBoer, "Economic Analysis of Row Spacing for Corn and Soybeans." *Agronomy Journal*, 95 (2003), p. 564-573.
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- Bongiovanni, Rodolfo, and J. Lowenberg-DeBoer, "Precision Agriculture and Sustainability." *Precision Agriculture*, 5 (2004), p. 359-387.
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- 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 Política Agrícola*, 14(4) (2005), p. 20-38.
http://www.embrapa.br/a_embrapa/unidades_centrais/sge/publicacoes/tecnico/revistaAgricola/index_htm
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- 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/>)
- 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.
- 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.
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<http://docs.lib.purdue.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-Sahara Africa." *Journal of International Food and Agribusiness Marketing*, 20(4) (2008), p. 7-23.
- 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.
- 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>.
- 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.

Delbecq, Benoit A., Jason P. Brown, Raymond J. G. M. Florax, Eileen J. Kladienko, 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.

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.

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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.

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

Boureima, S., Moussa B., Lowenberg-DeBoer, Jess, Analysis of the Profitability of PICS Bags for the Storage of Bambara Groundnut Seeds in Three Regions of Niger, *Purdue University Department of Agriculture Economics, Working Papers*, 15-3, (2015)
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Boureima, S., Moussa B., Lowenberg-DeBoer, Jess, “Analysis of the Profitability of PICS BAGS for the Storage of Roselle Granis (*Hibiscus sabdariffa*) in Three Regions in Niger. *Purdue University Department of Agriculture Economics, Working Papers*, 15-2, (2015) <http://purl.umn.edu/208450>

2. **Books and Chapters in Books**

Boehlje, Michael and J. Lowenberg-DeBoer. 1986. “Integration of Production and Financial Theory in Analyzing Farm Firm Behavior.” In *Agriculture in a Turbulent World Economy*, ed. Allen Maunder, 668-679. Brookfield, Vermont: Gower Publishing.

Lowenberg-DeBoer, J. 1986. *The Microeconomic Roots of the Farm Crisis*. 175 pages. New York, New York: Praeger. (Reviewed by Glenn Johnson, *Agricultural History*, 1988).

Lowenberg-DeBoer, J. and Scott Swinton. 1997. “Economics of Site-Specific Management of Agronomic Crops.” In *The State of Site-Specific Management in Agriculture*, ed. F. J. Pierce, P.C. Robert and J.D. Sadler, Madison, WI: SSSA-CSSA.

Murdock, L.L., R.E. Shade, L.. Kitch, G. Ntougam, J. Lowenberg-DeBoer, J.E. Huesing, W. Moar, O.L. Chambliss, C. Endondo, and J.L. Wolfson. 1997. “Postharvest Storage of Cowpea in Sub-Saharan Africa.” In *Advances in Cowpea Research*, eds. B. B. Singh, D. R. Mohan Raj, K E. Dashiell, and L.E.N. Jackai, 302-312. Devon, UK: Sayce Publishing.

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Abdoulaye, Tahirou, J. Lowenberg-DeBoer, K.C. Reddy, and Phillip Abbott, « Les contraintes socio-économiques au niveau de l'exploitation sur l'intensification de la culture de Niébé au Niger (Socio-Economic Constraints at the Farm Level on the Intensification of Cowpea Production in Niger). » Document 24 F, INRAN/DECOR, Niamey, (1992), 53 p.

Abdoulaye, Tahirou, J. Lowenberg-DeBoer and Fred Kruit, « Enquête sur la rentabilisation de la culture attelée dans une zone sahélienne (A Study of the Profitable Use of Animal Traction on the Sahelian Zone). » Document N 25 F, INRAN/DECOR, (1992), 45 p.

Lowenberg-DeBoer, J., Hadiza Zarafi and Mohamed Abdoulaye, « Enquête sur l'Adoption des Technologies Mil-Niébé à Kouka, Maïguéro, Rigial et Kandamo (A Study of Adaption of Millet-Cowpea Technologies at Koula, Maïguéro, Rigial and Kandomo). » Document N° 26F, INRAN/DECOR, (1992), 57 p.

Lowenberg-DeBoer, J., K.C. Reddy, and Assane Marou Zarafi, « Rapport sur les caractéristiques de risque des technologies mil-niébé testées en milieu réel à Maïguéro et Rigial Obandawaki (Report on the Risk Characteristics of Millet-Cowpea Technologies Tested in On-Farm-Trials at Koula, Maïguéro, Rigial and Kandomo). » Document 27 F, INRAN/DECOR, (1992).

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h. Posters

Jones, M., C. Alexander, J. Ricker-Gilbert, N. Olynk, J. Lowenberg-DeBoer, “Consumer Preferences for Maize in Malawi: A Stated Preferences Approach Correcting for Attribute Non-Attendance to Evaluate Impact of Insect Damage, Variety, and Mold.” Poster presented at Purdue Improved Crop Storage Project Lessons Learned Workshop, Accra, Ghana, (April 10-12, 2012).

Baributsa, D., K Sawadogo and J. Lowenberg-DeBoer, “Evaluation de l'Utilisation des Technologies de Stockage par les Commerçants du Niébé au Burkina Faso,” Poster presented at Purdue Improved Crop Storage Project Lessons Learned Workshop, Accra, Ghana, (April 10-12, 2012).

Baributsa, B., K. Djibo, J. Lowenberg-DeBoer, B. Moussa and I.B. Baoua, “The Fate of Triple-Layer Plastic Bags Used for Cowpea Storage in Africa: Are they an Environmental

Problem?" Poster presented at Purdue Improved Crop Storage Project Lessons Learned Workshop, Accra, Ghana, (April 10-12, 2012).

Moussa, Bokar, D. Baributsa, and J. Lowenberg-DeBoer, "Adoption of Hermetic Storage for Cowpea in Niger and Burkina Faso in 2010." Poster presented at the World Cowpea Conference, Saly, Senegal, (September 27-October 1, 2010).

Abifarin, Ayo, T. Abdoulaye and J. Lowenberg-Deboer, "Extension of Purdue Improved Cowpea Storage Technology: Impacts and Challenges Case Study of Plateau State Nigeria." Poster presented at the World Cowpea Conference, Saly, Senegal, (September 27-October 1, 2010).

6. Invited Lectures

Lowenberg-DeBoer, J., "The Linkage Between Farmland Price Changes and Farm Management Decisions: An Empirical Test." Seminar presented at Department of Agricultural & Applied Economics, University of Minnesota, St. Paul, MN, (May 6, 1986).

Lowenberg-DeBoer, J., "Integration des Donnees Biologique et Economique: Le Cas de la Simulation de la Culture Associee (Integration of Biological and Economic Data: The Case of Simulation of Intercropping)." Seminar presented at the Centre Ivoirien de Recherche Economique et Sociologique, Abidjan, Côte d'Ivoire, (April 1989).

Lowenberg-DeBoer, J., "Evidence for the Existence of a Free Lunch in Niger." International Programs in Agriculture seminar, Purdue University, West Lafayette, IN, (October 1989).

Lowenberg-DeBoer, J., "Identifying Sustainable Technologies." Seminar presented in the Dept. of Agricultural Economics, Indian Agricultural Research Institute, New Delhi, India, (February 12, 1990).

Lowenberg-DeBoer, J., "The Value of the Future in Niger: Implications for Sustainability and Agricultural Research." International Programs Seminar, Purdue University, (October 16, 1991).

Lowenberg-DeBoer, J., "The Opportunity Cost of Capital Invested in Nigerien Agriculture." seminar presented in the Agricultural Economics Dept., Michigan State University, East Lansing, MI, (October 10, 1991).

Lowenberg-DeBoer, J., « La Modélisation de la Relation Main d'Oeuvre - Capital dans les Systèmes de Production Agricole Traditionnels. » Ivorian Center for Economic and Sociological Research (CIRES), Abidjan, (March 26, 1993).

Lowenberg-DeBoer, J., « Valeur du Temp dans La Gestion des Terroirs. » Ivorian Center for Economic and Sociological Research (CIRES), Abidjan, (July 1, 1994).

Lowenberg-DeBoer, J., "Alternative Techniques in Farming Systems Research." presented at the Workshop on Applied Research and Education in Sustainable Agriculture: What have We Learned?" Indianapolis, IN, (April 1994).

Lowenberg-DeBoer J., "Economics of Going Precision on Your Own: Payoff in the Future." Agriculture Equipment Technology Conference, ASAE, Chicago, IL, (November 3, 1995).

Lowenberg-DeBoer, J., "Dynamics of Technical Change in Agriculture." Commercial Agriculture Institute, Crop Institute, University of Missouri, Columbia, MO, (January 9, 1997).

Lowenberg-DeBoer, J., "What Are The Returns to Site-Specific Management?" American Society of Agronomy Annual Meeting, Anaheim, CA, (October 1997).

Lowenberg-DeBoer, J., "Cost, Average Returns and Riskiness of Switching to Narrow Row Corn." Symposium on Exploring New Crop Management Systems, American Society of Agronomy Annual Meeting, Baltimore, MA, (October 1998).

Lowenberg-DeBoer, J., "Steps That the Agricultural Sector is Taking in Response to Climate Change." presented at the Conference on Climate Change: What Does It Mean for the Southwest?" EPA, Phoenix, AZ, (September 1998).

Lowenberg-DeBoer, J., "Economic Impact Assessment for Cowpea Utilization Research." International Workshop on Cowpea Processing and Utilization, University of Ghana, Legon, Accra, Ghana, (January 25-29, 1999).

Lowenberg-DeBoer, J., "Risk Management Potential of Precision Farming Technologies." SAEA Annual Meeting, Memphis, TN, (February 2, 1999).

Lowenberg-DeBoer, J., "Managing Production Risk with Precision Farming Technologies." Van Buren Lecture, Department of Agricultural, Environmental and Development Economics, Ohio State University, Columbus, Ohio, (April 29, 1999).

Lowenberg-DeBoer, J., "Conflict in Africa: A Socio-Economic Perspective." Wabash Area Lifelong Learning Association (WALLA), West Lafayette, IN, (October 26, 1999).

Lowenberg-DeBoer, J., "Current Status of Precision Agriculture in the U.S. and Potential for Application of Precision Agriculture in Developing Countries." Conference on Research Priorities and Methods of Applying Precision Agriculture in the Southern Cone Countries, PROCISUR, Buenos Aires, Argentina, (June 1, 2000).

Lowenberg-DeBoer, J., "Precision Farming on the Ragged Edge of Ag Technology." U.S. Ag Communicators Conference, Washington, D.C., (July 26, 2000).

Coulibaly, Ousmane, and J. Lowenberg-DeBoer, "The Economics of Cowpea in West Africa." Symposium/Workshop on the Genetic Improvement of Cowpea, Dakar, Senegal, (January 2001).

Bongiovanni, R. and J. Lowenberg-DeBoer, "Precision Agriculture and Sustainability." VII Congreso de Maiz. Pergamino, Argentina, 45 (November 2001).

Lowenberg-DeBoer, J., "Agriculture et Développement Durable." Lecture series sponsored by U.S. State Department, Bureau of Oceans and International Environmental and Scientific Affairs (OES); Nouakchott, Mauritania; Bamako, Mali, and Niamey, Niger, (August 2002).

Lowenberg-DeBoer, J., "Precision Agriculture." Purpan, Toulouse, France, (October 25, 2002).

Lowenberg-DeBoer, J., "Opportunities For Millet and Sorghum as Livestock Feed in Sub-Saharan Africa." INTSORMIL All researcher Conference, Addis Ababa, Ethiopia,

(November 20, 2002).

Lowenberg-DeBoer, J., "Economics of Remote Sensing For Management Zone Determination." American Society of Agronomy Annual Meeting, Denver, CO, (November 2003).

Lowenberg-DeBoer, J., "Economics of Genetically Modified Insect Resistant Crops in Developing Nations." International Plant Resistance to Insects Workshop, Purdue University, West Lafayette, Indiana, USA, (April 11, 2006).

Lowenberg-DeBoer, J. and Terry Griffin, "Adoption and Profitability of Precision Agriculture Worldwide and Implications for Brazil." Keynote address at the Brazilian Precision Agriculture Conference, Sao Pedro, SP, Brazil, (June 5, 2006).

Lowenberg-DeBoer, J., "Adoption and Profitability of Precision Agriculture Worldwide." Keynote address at the 8th International Precision Agriculture Conference, Minneapolis, MN, (July 23-26, 2006).

Lowenberg-DeBoer, J., "Adoption and Economics of Precision Agriculture." Invited lecture at the Research Center for Precision Agriculture, China Agricultural University, Beijing, China, (August 5, 2006).

Lowenberg-DeBoer, J. and Bruce Erickson, "Economics of Innovative Technologies in Precision Agriculture Nutrient Management." Agronomy Society of America, Annual Meeting, Indianapolis, Indiana, (Nov. 14, 2006).

Lowenberg-DeBoer, J., "Searching for Silver Bullets: Is there a Role for Industrialized Country Innovation to Help African Farmers?" Invited lecture at the Institut fur Agrartechnik, Potsdam, Germany, (July 10, 2007).

Lowenberg-DeBoer, J., "CRSP Impacts on Public Welfare." Collaborative Research Support Program (CRSP) Symposium, American Society of Agronomy Annual Meeting, Division A6 International Agronomy, New Orleans, USA, (Nov. 6, 2007).
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Griffin, T.W., R. Bongiovanni, and J. Lowenberg-DeBoer, "Worldwide Adoption of Precision Agriculture Technology: The 2010 Update." Global Proliferation of Precision Agriculture and its Applications, 10th International Conference on Precision Agriculture, Denver, Colorado, USA, (July 18-21, 2010).

Lowenberg-DeBoer, J., "Purdue Improved Crop Storage: Hermetic Storage for Grain." Invited presentation at the Improving Food Security by Reducing Post-Harvest Losses Meeting, World Bank, Washington, D.C., (September 20, 2011).

Lowenberg-DeBoer, J., "Economic Basis for Adoption of Site-Specific Crop Management and Information Technologies," II International Conference: A Systematic Approach in Implementation of Informational and Resource-Saving Technologies in Crop Production," Varva, Ukraine, Oct. 5, 2012.

Lowenberg-DeBoer, "Precision Agriculture Adoption: Past, Present & Next Steps," Keynote Address for the European Conference on Precision Agriculture (ECPA), Lleida, Spain, (July 8, 2013).