

RURAL ECONOMY

2000 ANNUAL REPORT



Department of Rural Economy
Faculty of Agriculture, Forestry,
and Home Economics
University of Alberta
Edmonton, Alberta, Canada

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August 2001

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Rural Economy in 2000: Moving Forward

The mission of the Department of Rural Economy of the University of Alberta is to pursue excellence in the discovery, application and dissemination of knowledge of economic, sociological, and business dimensions of agriculture, food, forestry and the environment. A related focus of Rural Economy's research mission is the pursuit of public involvement to ensure relevance and effectiveness in the discovery, application and dissemination of knowledge in our areas of focus.

Rural Economy was fortunate to continue to build on its academic and support staff resources in 2000, as was also the case in 1999. Towards the end of the year, Ellen Goddard was appointed to the Cooperative Chair in Agricultural Marketing and Business. Since then, Dr. Goddard has very actively revitalised the research and outreach programs of the Cooperative Chair program. Also appointed as a new faculty member late in 2000 was Desmond Ng, whose area of specialization is Agribusiness Management. Dr. Ng's academic training was at the University of British Columbia (BSc); McGill University (MSc); and the University of Illinois (PhD). The complement of faculty members that was achieved in 2000 is facilitated by a very able and dedicated group of support staff. Overall the ability of Rural Economy has been strengthened to contribute to the undergraduate programs of the Faculty of Agriculture, Forestry and Home Economics as well as to the Department's graduate programs. The Department's undergraduate courses are particularly important to the Faculty's BSc programs in Agriculture; Agriculture/Food Business Management; Environmental and Conservation Sciences; Forestry; and Forest Business Management.

A near-record number of new graduate students entered graduate programs in Rural Economy during the course of 2000. Similarly, some 17 students completed their graduate programs in that year. We are pleased that the very high quality of graduates is shown in the continuing pattern of thesis awards and the ability of our graduate students to move into good jobs. One of our MSc students, Cameron Taylor, was awarded the outstanding 2000 MSc thesis award by two different major professional associations, being selected for this honour by both the Canadian Agricultural Economics Society and the Western Agricultural Economics Society. His thesis research completed in the previous year, was co-supervised by Vic Adamowicz and Marty Luckert. As in previous years some staff and students had opportunities to engage in international programs of research and education during the course of the year, reflecting the Department's continuing involvement in international programs that contribute to teaching and research. Two further international projects were entered into in year 2000, as noted in the following pages.

The recent replacements and additions to staff resources well position Rural Economy to undertake an indepth review of the courses that are provided through this Department, at both the graduate and undergraduate levels. It is expected that this will be a major facet of strategic planning for 2001. Other issues that we expect to be of importance in 2001 are whether we should pursue a name change for the department so that the disciplinary focus of the graduate programs and research activities undertaken in the Department are more evident from its name. Currently the Department offers graduate degrees in Agriculture and Resource Economics; Forest Economics; and Rural Sociology. The current areas of research and teaching emphasis are: Resource, Environmental and Forest Economics; Agriculture and Agribusiness Economics and Management; and Rural/Resource Sociology. Two prospective alternative new names have been suggested. One of these is Agricultural and Resource Economics and Sociology. The second alternative suggested is Resource Economics and Sociology. We hope to receive feedback on this issue from friends of the Department.

The very active research programs engaged in by members of this department are illustrated by the information in this report which lists publications that were printed in the calendar year 2000 and notes the funded research projects that were held by faculty this year. Also illustrated in the following sections are the extensive communications and outreach activities of staff, in collaboration with graduate students, through presentations to professional and public groups. Research grants achieved by faculty members continue to be the most important means of funding graduate students' programs and research infrastructure. These resources have also been augmented by generous support from donors. Donations to the endowment and trust funds held by Rural Economy have supported the purchase of materials for Rural Economy's reading room; added to the opportunities for graduate students to participate in professional meetings; and provided for awards to both graduate and undergraduate students. We appreciate the generous support of our many friends and are always pleased to receive communications and visits from graduates and others interested in the mission and activities of the Department of Rural Economy.

Michele Veeman, Chair

Rural Economy Staff

Academic Staff

Wiktor L. Adamowicz, PhD (Minnesota); Professor; Environmental Economics, Econometrics, Forest Economics.
Peter C. Boxall, PhD (Alberta); Associate Professor; Environmental Economics, Resource & Forest Economics.
Kevin Z. Chen, PhD (Guelph); Associate Professor; Food Marketing, Policy.
James H. Copeland, MSc (Alberta); Faculty Service Officer; Computing and Statistical Analysis.
Debra J. Davidson, PhD (Wisconsin-Madison); Assistant Professor; The State and Environmental Policy, Globalization, First Nations Issues.
E.W. Goddard, PhD (Bundoora, Australia); Professor and Cooperative Chair; Agricultural Marketing and Business (*effective December 15, 2000*).
Grant K. Hauer, PhD (Minnesota); Assistant Professor; Resources & Environmental Economics, Trade.
Scott R. Jeffrey, PhD (Minnesota); Associate Professor; Agricultural Business Management, Production Economics.
Naomi T. Krogman, PhD (Colorado State); Assistant Professor; Sociology of Natural Resources, International Development, Gender.
Mel L. Lerohl, PhD (Michigan State); Professor; Agricultural Policy and Trade. *Graduate Coordinator*.
Martin K. Luckert, PhD (British Columbia); Professor; Forest Economics, Natural Resource Economics.
D.W. Ng, PhD (Illinois); Assistant Professor; Agribusiness Management & Strategy, Business Strategy.
Jim R. Unterschultz, PhD (Alberta); Associate Professor; Agribusiness, Finance and Marketing.
Michele M. Veeman, PhD (California at Berkeley); Professor and Chair; Markets, Policy, Trade. *Graduate Co-Coordinator*.
Terry S. Veeman, PhD (California at Berkeley); Professor; International Development, Resource and Environmental Economics. Joint appointment with Economics.

Associated Academic Staff

Leonard P. Apedaile, PhD (Iowa State); Professor Emeritus; Agricultural Policy, Rural Development.
Len Bauer, PhD (Oregon State); Professor Emeritus; Agricultural Management, Production Economics.
Tom M. Beckley, PhD (Wisconsin); Adjunct Professor; Forest Sociology.
Dhara S. Gill, PhD (Cornell); Professor Emeritus; Rural Sociology, Agricultural Extension.
Murray H. Hawkins, PhD (Ohio State); Professor Emeritus; Marketing, Business Management.
G. Wayne Lamb, PhD (Texas A & M); Adjunct Professor (Faculty of Extension); Extension Education.
Benoit Laplante, PhD (Queens); Adjunct Professor (World Bank); Environmental Economics.
B.L. McFarlane, PhD (Alberta); Adjunct Professor; Forest Social Science.
Glen A. Mumey, PhD (Washington); Adjunct Professor (Faculty of Business); Finance, Management.
Eloise C. Murray, PhD (Pennsylvania State); Professor Emeritus; Gender Issues, Extension, Int'l. Development.
Brian T. Oleson, PhD (Minnesota); Adjunct Professor (Canadian Wheat Board); Marketing, Trade.
T. Alf Petersen, PhD (Washington State); Professor Emeritus; Farm Management, Extension.
W.E. Phillips, PhD (California at Berkeley); Professor Emeritus; Forest Economics, Resource Economics.
Joseph J. Richter, Dr. Rer. Pol. (Graz, Austria); Professor Emeritus; Marketing, Trade.
Wolfgang M. Schultz, PhD (Oklahoma State); Professor Emeritus; Production and Natural Resource Economics.
Richard C. Stedman, PhD (Wisconsin); Adjunct Professor; Sociology and Rural Sociology.
Frank J. Tough, PhD (York); Adjunct Professor; Aboriginal Natural Resource Management.
Ed W. Tyrchniewicz, PhD (Purdue); Professor Emeritus; Policy, Transportation, International Development.

Support Staff

Judy Boucher, Administrative Assistant
Liz Bruce, Student Services Coordinator
Randy Page, LAN Administrator
Marilou Stegmeier, Department Administrator
Dawn Zrobok, Reading Room Supervisor

Sessional Lecturers and Research Fellows

Shiferaw Adilu, Sessional Lecturer
Bob Burden, Sessional Lecturer
Atakelty Hailu, Post Doctoral Research Fellow
Michel Haener, Research Associate
Brenda Powell, Sessional Lecturer

Ellen Taylor, Sessional Lecturer
Marian Weber, Post Doctoral Research Fellow
Jeji Varghese, Research Associate

Awards to Graduate Students in 2000

Armstrong Duku-Kaakyire - Graduate Intern Tuition Supplement

Chanchoura Bouphasiri - BJ McBain Scholarship (1999 – 2000)

Cyril Chami - African Economic Research Consortium (AERC) Scholarship

Lorraine Dzuda - CANFOR Scholarship in Ecosystem Management
- Graduate Intern Tuition Supplement

Mohamed Gheblawi - Graduate Intern Tuition Supplement

Young Wok Han - Graduate Intern Tuition Supplement

Wuyang Hu - FS Chia PhD Scholarship

Tanya Hunt - Graduate Studies and Research Scholarship

Israel Huygen - BJ McBain Scholarship (2000 - 2001)

Innocent Karamagi - African Economic Research Consortium (AERC) Scholarship
- Graduate Studies Research Scholarship

Renee Boyoung Kim - Japanese Government (Monbusho) Scholarship

Roy Larsen - Graduate Studies and Research Scholarship

Xiaozhan (Jean) Liu - FS Chia PhD Scholarship

Norah MacKendrick - Graduate Intern Tuition Supplement

Jody Mackenzie - University of Alberta Graduate Student Teaching Award

Diane McCann - Canadian Wheat Board Graduate Fellowship
- Graduate Studies and Research Scholarship

Neelum Miraj - Canadian Commonwealth Scholarship

Sibongile Moyo - Fund for the Support of International Development Activities (FSIDA)

Gordon Murray - Graduate Studies and Research Scholarship

David Nanang - FS Chia PhD Scholarship

Mike Patriquin - Province of Alberta Graduate Scholarship

Jason Politylo - Graduate Intern Tuition Supplement
- John Proskie Memorial Scholarship

Kwamena Quagraine - Canadian Wheat Board Graduate Fellowship

William Rutakumwa - Fund for the Support of International Development Activities (FSIDA)

Cameron Taylor - Western Agricultural Economics Association outstanding Master's thesis, and the Canadian Agricultural Economics Society Master's Thesis award.

Awards to Staff in 2000

Debra Davidson - Appointed Adjunct Professor in Sociology.

Naomi Krogman - Received the NACTA (National Association of Colleges and Teachers of Agriculture) Teaching Award of Merit.

Mel Lerohl - Named to the AFHE Teaching Wall of Fame.

Terry Veeman - Named to the AFHE Teaching Wall of Fame.

Professional Offices Held by Staff in 2000

Wiktor Adamowicz - Project Leader, SFM Network of Centres of Excellence; Member of Editorial Board for the Journal of Forest Economics; Member of Editorial Council for the Journal of Environmental Economics and Management.

Peter Boxall - Associate Editor for Economics, International Journal of Wildland Fire; Co-Chair of the Society and Stewardship Section for the Millennial Conference on Sustainable Forestry.

Chen, Kevin - Member, Western Coordinating Committee; Member, ad-hoc Alberta Agriculture's China Interest Group.

Debra Davidson - Member of the Editorial Board for the Human Ecology Review.

Scott Jeffrey - Member of the Advisory Council, Western Canadian Dairy Seminar.

Naomi Krogman - Associate Editor, Society and Natural Resources.

Marty Luckert - Associate Editor, Forestry Economics and Policy, Canadian Journal of Forest Research and Forestry Chronicle.

James Unterschultz - Executive Member of Alberta Agricultural Economics Association; Alberta Representative for Western Agricultural Economics Association; Member of Board of Directors of Western Food Conference.

Michele Veeman - Member, Advisory Committee on Agricultural Statistics for Statistics Canada; Member, Internal Trade Dispute Settlement Panelist Roster (for the Province of Alberta); Member of the Board of Trustees of the National Centre for Food and Agricultural Policy (Washington); Member of Editorial Board of the Estey Centre Journal of International Law and Trade Policy.

Terry Veeman - Co-theme Leader, Socio-economic Sustainability (now Legacy 2) Theme, SFM Network of Centres of Excellence; Director, International Association of Agricultural Economists - Canadian Chapter, and IAAE representative on the Executive of the Canadian Agricultural Economics Society; Director, Canadian Water Resources Association; Member, Advisory Committee, Environmental Research and Studies Centre; Member, Board of Examiners, Alberta Institute of Agrologists.

Staff on Leave in 2000

Jim Copeland, April 1, 1999 to May 31, 2000 (to Administrative Systems, University of Alberta).

Scott Jeffrey, July 1, 1999 to June 30, 2000 (at the University of Guelph).

Graduate Students Completing Programs in 2000, Thesis Topics and Supervisors

Chen, Chen. Canadian Household Demand for Food. MSc (Chen/M. Veeman)

Dosman, Donna. Explorations of Marital Power in Household Decisions about Shared Household Goods. Are these Bargained Decisions? PhD (Adamowicz)

Durrani, Saqib. Course-based MBA/MAg (Lerohl)

Gervais, Paul. Course-based MBA/MAg (Lerohl)

Gurung, Rajendra. Factors Affecting Choice of Pricing and Payment Practices by Traditional Marketing and New Generation Co-operatives. MSc (Unterschultz)

Hegan, Larry. Is the Tragedy of the Commons Possible?: Investigating Factors that Influence Common Pool Fuelwood Rents in Zimbabwe. MSc (Luckert)

Kundhlande, Godfrey. Economic Behaviour of Developing Country Farm-households: Measures of Rates of Time Preference, The Use of Cattle as Buffer Stock, and Endogenous Evolution of Land Rights. PhD (Luckert/Adamowicz)

Latam, Dawn Marie. Course-based MBA/MAg (Lerohl)

Lee, Wai Mei. The Potential of Supply Chain Management in the Canadian Feed Barley Industry. MSc (Unterschultz)

MacKenzie, Jody. Pork, Power and Public Participation: A Comparative Analysis of Perceived Conflict, Successes and Challenges of Public Participation for Siting Intensive Hog Operations in Alberta. MSc (Krogman)

Patriquin, Mike. Environmentally Extended Regional Economic Impact Analysis. MSc (Adamowicz)

Pierce, Michael. Course-based MBA/MAg (Lerohl)

Quagraine, Kwamena. Effects of Advertising and Cholesterol Information on Canadian Meat Consumption. PhD (Unterschultz/M Veeman)

Rilska, Natalia. Course-based MBA/MAg (Lerohl)

Rutakumwa, William. An Assessment of the Quality of Health Care for Ugandan Rural Women, from a Gender Perspective. MSc (Krogman)

Tamai, Satoshi. Sustainability of Canada's Forest Sector: Estimating Economic Depreciation of Canada's Timber Resources. MSc (Hauer)

Zhao, Yue (Oliver). Economic Implications of Interregional Trade Liberalization in the Canadian Dairy Industry. PhD (Jeffrey/Chen)

Graduate Students Commencing and Continuing Programs Through 2000

Chanchoura Bouphasiri, MSc (Veeman, T.)
Peter Cahill, MSc (Adamowicz)
Sylvie Cauvier-Lepine, MSc (Davidson)
Cyril Chami, PhD (Adamowicz, Veeman, T.)
David Cymbaluk, MSc (Lerohl)
Crescentia Dakubo, PhD (Boxall/Veeman,T.)
Armstrong Duku-Kaakyire, MSc (Unterschultz)
Saqib Durrani, MBA/MAg (Lerohl)
Lorraine Dzuda, PhD (Hauer/Boxall)
Argaw Fereja, MSc (Lerohl)
Colette Fluet, MSc (Krogman)
Nanako Furuyama, MSc (Krogman)
Paul Gervais, MBA/MAg (Lerohl)
Hailu Getu, PhD (Unterschutz/Jeffrey)
Mohamed Gheblawi, PhD (Adamowicz)
Heather-Anne Grant, MSc (Veeman, M./Jeffrey)
Young Wook Han, MSc (Veeman, T./Lerohl)
Wuyang Hu, PhD (Jeffrey)
Tanya Hunt, MSc (Hauer)
Israel Huygen, MSc (Lerohl/Veeman, M.)
Jennifer Jabs, MSc (Adamowicz)
Innocent Karamagi, PhD (Jeffrey)
Ali Murad Khan, MSc (Chen)
Renee Kim, PhD (Veeman, M./Unterschultz)
Roy Larsen, MSc (Hauer/Boxall)
Dawn Marie Latam, MBA/MAg (Lerohl)
Michelle Lee, MSc (Davidson)
Xiaozhan Liu, PhD (Veeman, T./Chen)
Norah MacKendrick, MSc (Davidson)
Heather Jean MacKenzie, MBA/MAg (Lerohl)
Diane McCann, MSc (Veeman, M.)
Mendez-Manzanilla, Jorge, MSc (Jeffrey)
Miao, Xiaoping, MSc (Chen)
Jamie Miller, MSc (Unterschultz)
Neelum Miraj, PhD (Veeman, T.)
Ross Mitchell, PhD (Davidson)
Nancy Mittelsteadt, MSc (Boxall/Adamowicz)
Danielle Moffat, MBA/MAg (Lerohl)
Clotilde Mollo Ngomba, MSc (Hauer)
Patience Sibongile Moyo, PhD (Veeman, M./Luckert)
Gordon Murray, MSc (Veeman, T./Boxall/Hauer)
Kang-Weon Nam, MSc (Chen/Ng)
David Nanang, PhD (Luckert/Hauer)
Sheraz Nasir, MSc (Veeman, T)
Gunnilla Nilsson, MSc (Luckert)
Randeep Nota, MBA/MAg (Veeman, M.)
Angela Pearson, MSc (Veeman, T.)
Michael Pierce, MBA/MAg (Lerohl)
Tracey Poitras-Collins, MSc (Krogman)
Jason Politylo, MSc (Veeman, T.)
Xiaochao Qian, MSc (Chen)
Natalia Rilska, MBA/MAg (Lerohl)
Julius Salegio, MSc (Krogman)
Bradford Shapansky, MSc (Adamowicz)
Jeji Varghese, PhD (Krogman)
Ronald Volpi, MBA/MAg (Lerohl)
Richard Vyn, MSc (Hauer)
Tim Williamson, PhD (Adamowicz/Hauer)
Christopher Zindi, PhD (Luckert/Jeffrey)

Visiting Professors/Scholars

Carrier, Mario, Visiting Professor, UniversitJ du QuJbec: Sabbatical leave from July 1999 to July 2000.

Englin, Jeff. Visiting Professor, University of Nevada: Sabbatical leave from July 1999 to July 2000.

Visiting Speakers and their Topics

Adamowicz, W.L. Professor, Department of Rural Economy, University of Alberta. *Complexity and Consumer Behaviour*. March 13.

Broadway, Michael. Professor and Head, Department of Geography, Northern Michigan University. *Here's the Beef: The Social Impact of Beef Processing's Move to Rural Alberta*. September 11.

- Burrell, Alison. Associate Professor, Agricultural Economics and Rural Policy Group, University of Wageningen. *Consumers' Attitudes to rBST in Milk With and Without Labelling*. March 10.
- Campbell, Sandy. Collections Manager, Science and Technology Library, University of Alberta. *How to Spend Less Time Surfing (or in the Library) and More Time Skiing*. October 2.
- Carrier, Mario. Professor, Department of Administration Sciences, University of Quebec in Abitibi-Témiscamingue. *Governance and Social Cohesion in Rural Canada*. April 26.
- Chen, Chen. Graduate Student, Department of Rural Economy. *Canadian Household Demand for Food Away from Home*. February 14.
- Chen, Kevin. Assistant Professor, Department of Rural Economy. *Health Risk, Information, and the Canadian Decision to Eat Healthy*. November 6.
- Dosman, Donna. Graduate Student, Department of Rural Economy. *Explorations of Marital Power in Household Decisions About Shared Household Goods*. October 23.
- Duan, Yufeng. Research Associate, Department of Rural Economy. *Competitiveness of Alberta Agrifood Exports in Target Markets from 1988-1997*. April 3.
- Fulton, Murray. Professor, Department of Agricultural Economics, University of Saskatchewan. *Challenges for Cooperatives in the Next Decade*. June 9.
- Garber-Yonts, Brian. Research Associate, Department of Forest Resources, Oregon State University. *Public Preference for Conservation of Biological Diversity in the Oregon Coast Range*. August 29.
- Goddard, Ellen. Professor of Agribusiness, University of Melbourne, Australia. *The Implications of Changing Food Industry Structure on Food Marketing Strategies*. May 17.
- Goode, Frank. Vice President and General Manager, Animal Milk Products Company, Land O'Lakes Cooperative. *Competition and Consolidation of U.S. Agribusiness*. October 17.
- Gurung, Rajendra. Graduate Student, Department of Rural Economy. *Factors Affecting Choice of Pricing and Payment Practices by Traditional Marketing and New Generation Co-operatives*. October 16.
- Haener, Michel. Research Associate, Department of Rural Economy. *Modeling Recreation Site Choice: Do Hypothetical Choices Reflect Actual Behaviour?* February 28.
- Hegan, Larry. Graduate Student, Department of Rural Economy. *Is the Tragedy of the Commons Really Possible?* March 6.
- Kohl, David. Professor, Agricultural Finance, Small Business Management and Entrepreneurship, Virginia Polytechnic Institute. *Global Agricultural Trends and How They Affect Decisions for Canadian Farms*. February 7.
- Kundhlande, Godfrey. Graduate Student, Department of Rural Economy. *Empirical Measures and Determinants of Rates of Time Preference Among Peasant Farmers in Zimbabwe*. October 30.
- Lee, Mimi. Graduate Student, Department of Rural Economy. *The Potential of Supply Chain Management in the Feed Barley Sector*. September 25.
- Maarsdorp, Barbara. Senior Lecturer, Crop Science Department, University of Zimbabwe. *Agroforestry Teaching and*

- Research in the Faculty of Agriculture.* July 24.
- Mapfumo, Paul. Lecturer, Department of Soil Science and Agricultural Engineering, University of Zimbabwe. *Changes in Landuse and Agroforestry Tree Planting Patterns by Smallholder Farmers in Zimbabwe.* July 25.
- Muchenje, Voster. Lecturer, Department of Agricultural Management, Zimbabwe Open University. *The Place of Agroforestry Curriculum in Zimbabwe Open University.* July 26.
- Mudimu, Godfrey. Senior Lecturer, Agricultural Economics Department, University of Zimbabwe. *A Market Survey of Woodcraft Markets in Harare.* July 24.
- Mushaka, Abisai. Research Officer, Forestry Commission, Zimbabwe. *Comparison of Soil Moisture Recharge and Depletion Under Eucalyptus and Indigenous Woodland in Zimbabwe.* July 25.
- Nijnik, Maria. Graduate Student, Department of Social Sciences, Wageningen University, Netherlands. *Institutional Transformation in the Ukraine's Forest Sector.* November 9.
- Power, Tom. Chair, Economics Department, University of Montana. *Are We Really Poor? Size of Place and Relative Pay and Income in Small Cities and Non-Metropolitan Areas of the US.* March 8.
- Quagraine, Kwamena. Graduate Student, Department of Rural Economy. *The Impact of Value Adding on Western Canadian Agriculture.* May 29.
- Rollins, Kim. Associate Professor, Department of Agricultural Economics and Business, University of Guelph. *Economic Characterization of Wildlife Damage: A Case Study of Ontario.* September 13.
- Romain, Robert. Professor, University of Laval. *Assessing Technical Efficiency of Quebec Dairy Farms.* March 13.
- Rutakumwa, William. Graduate Student, Department of Rural Economy. *Women's Perceptions and Use of Health Care in Rural Uganda.* March 27.
- Salegio, Julius. Graduate Student, Department of Rural Economy. *Social Barriers and Incentives for Participation in Agroforestry in El Salvador.* March 20.
- Schmitz, Andrew. Professor, Department of Food and Resource Economics, University of Florida. *Agricultural Policy and Rent Seeking.* November 1.
- Stedman, Richard and Bonita McFarlane. Forest Sociologist and Nontimber Valuation Social Scientist, Socioeconomics Research Network, Canadian Forest Service. *Sense of Place: Application to Recreation Settings and Implications for Environmental Behaviour.* April 10.
- Tamai, Toshi. Graduate Student, Department of Rural Economy. *Sustainability Analysis of Canada's Forest Sector.* August 24.
- Walburger, Allan. Coordinator of the Agricultural Studies Program, University of Lethbridge. *Evaluating the Registration Process for New Varieties of Bread Grains in Canada.* March 5.
- White, Bill. Senior Economist, Canadian Forest Service. *Living Off the Land: Identifying Canada's Resource Dependent Communities.* April 17.
- Witwicki, Nicole. Program Evaluation Specialist, Program Services Division, Alberta Agriculture, Food and Rural Development. *Factors for Success in Agricultural Marketing and Production Clubs.* January 31.

A Major Academic Activity: Rural Economy Participation in Sustainable Forest Management - The Network of Centres of Excellence

The Sustainable Forest Management Network, one of Canada's 18 Networks of Centres of Excellence, is centred at the University of Alberta, but national in scope. This is a national research network focused on management of the boreal forest, involving university, industry and government collaboration in research. The Faculty of Agriculture, Forestry and Home Economics plays a major role in this NCE. Several faculty members are partners in the Network. Dr. Vic Adamowicz (Rural Economy) became Project Leader of the Network in late 1998. Dr. Terry Veeman (Economics/Rural Economy) is a co-theme leader of one of the three themes (Strategies and Institutions for Sustainable Forest Management). In addition several Rural Economy faculty members have graduate students funded through the network.

The Sustainable Forest Management NCE is core funded by two federal granting councils: The Natural Sciences and Engineering Research Council (NSERC) and the Social Sciences and Humanities Research Council (SSHRC), in collaboration with Industry Canada. The Network is also supported by several industry partners, provincial governments, and First Nations partners. The Network's annual budget for research and networking is now over \$5 million. The Network has been extended to the year 2002.

The Network examines new approaches to forest management that can maintain the nation's forest based-economy while not compromising biodiversity and ecological goals. The Network has three theme or legacy areas: Ecological Basis of Sustainability, Strategies and Institutions for SFM, and Minimum Impact Technologies. The theme areas interact to provide linkages between ecology, forest practices, processing and pollution control technology and social and economic development that are necessary to develop new approaches to forestry and new forest policies.

International Projects

Agroforestry Southern Africa Project is a five year project (M. Luckert, U of A Director), funded by the Canadian International Development Agency, that will continue into 2001. It has provided for a continuation of many collaborative activities of Rural Economy and the University of Zimbabwe that were initiated through the earlier Value of Trees Project. In July 2000, the University of Zimbabwe directors of this project visited Rural Economy to plan future follow activities. A series of educational and research publications associated with the project were completed during the year. Godfrey Kundhlande, whose studies had been supported by this project, completed his PhD studies and returned to take up an academic position in Southern Africa. Graduate studies of another three Zimbabwe students continued to be supported under this program in Rural Economy in 2000. These are Chris Zindi, Sibongile Moyo and Lorraine Dzuda.

Two further international projects of Rural Economy began in 2000. One of these, funded by IDRC, is the *Community Land Management (Zimbabwe)* project which commenced in late 2000. This will provide for research in how communal property rights affect land management in Zimbabwe by the University of Zimbabwe and the University of Alberta, (through Rural Economy). The project will provide funding for three PhD students, one of whom will be based at the University of Alberta. Also approved in 2000 was a three-year linkage agreement between Rural Economy and the International Centre for Research on Agroforestry, (ICRAF). ICRAF is based in Kenya and is one of the Consultative Group of International Agricultural Research Centres.). The title and focus of this project is *Valuation of Environmental Services of Agroforestry Systems*.

Rural Economy Facilities

The Rural Economy Reading Room continues to be a valuable resource for the department and is well-used by students. The scope of the collection has expanded in the last few years beyond the traditional areas of agricultural economics, forest economics and rural sociology to include agroforestry, environmental economics, and resource sociology.

The Rural Economy Graduate Computing Laboratory is a 10 work station research facility that focuses on specialized software used in the disciplines of Agricultural and Resource Economics, Forest Economics and Rural Sociology. Competitive capital funding is being sought to expand the scope and capacity of this facility in the subsequent year.

2000 Publications

Refereed Publications (Journal Articles, Books and Chapters in Books)

- Adamowicz, W. 2000. "Environmental Valuation Case Studies." In: Stated Choice Methods: Analysis and Application. J.J. Louviere, D.A. Hensher and J. Swait. Cambridge University Press. pp. 329-353.
- Adilu, S., M. Veeman and T. Veeman. 1999. Abstract. Removing Grain Freight Subsidies: Effects on Western Canadian Agriculture. *Canadian Journal of Agricultural Economics* 47(4):480.
- Akabua, K.M., W. L. Adamowicz and P.C. Boxall. 2000. Spatial Non-timber Valuation Decision Support Systems. *Forestry Chronicle* 76(2): 319-327.
- Campbell, B.M, Doré, D., Luckert, M., Mukamuri B. and J. Gambiza. 2000. Economic Comparisons of Livestock Production in Communal Grazing Lands of Zimbabwe. *Ecological Economics* 33(2000):413-438.
- Chen, K. Z. 2000. The Changing Pattern of China's Agricultural Trade. *Current Agriculture, Food & Resource Issues* 1/2000:36-45.
- Chen, K., L. Xu, and Y. Duan. 2000. Export Competitiveness of China's Export in Agri-food Products: 1980-96. *Agribusiness: An International Journal* 16(2000):281-294.
- Englin, J., P. Boxall and G. Hauer. 2000. An Empirical Examination of Optimal Rotations in a Multiple Use Forest in the Presence of Fire Risk. *Journal of Agricultural and Resource Economics* 25(1):14-27.
- Fulton, M., B. Larue and M. Veeman. 1999. The Impact of State Trading Enterprises Under Imperfect Competition: The Small Country Case. *Canadian Journal of Agricultural Economics* 47,4(December 1999):363-374.
- Haener, M.K. and W.L. Adamowicz. 2000. The Incorporation of Fire and Price Risk in Regional Forest Resource Accounts. *Ecological Economics* (33):439-455.
- Haener, M.K. and W.L. Adamowicz. 2000. Regional Forest Resource Accounting: A Northern Alberta Case Study. *Canadian Journal of Forest Research* 30 (2): 264-273.
- Hailu, A., W. Adamowicz and P. Boxall. 2000. Complements, Substitutes, Budget Constraints and Valuations: Application of a Multi-program Environmental Valuation Method. *Environmental and Resource Economics* 16(1): 51-68.
- Hailu, A. and T.S. Veeman. Output Scale, Technical Change, and Productivity in the Canadian Pulp and Paper Industry. *Canadian Journal of Forest Research* 30 (July 2000):1041-1050.
- Hegan, L. and M.K. Luckert. 2000. An Economic Assessment of the Allowable Cut Effect (ACE) for Enhanced Forest Management Policies: An Alberta Case Study. *Canadian Journal of Forest Research* 30(10):1591-1600.
- Kundhlande, G., W. Adamowicz and I. Mapure. 2000. Valuing Ecological Services in a Savanna Ecosystem: A Case Study from Zimbabwe. *Ecological Economics* (33):401-412.

- Kuperis, P., M. Vincent, J. Unterschultz and M. Veeman. 1999. Ethnic Niche Markets for Fresh Canadian Pork in the United States Pacific Northwest. Special issue on Cross-National and Cross-Cultural Issues in Food Marketing. *Journal of International Food and Agribusiness Marketing* 10(4):31-45.
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- Luckert, M.K. 1999. "Stumpage Fee Collection Systems on Public Forest Lands in Canada: An Overview". In: Economic Rents and Environmental Management in Mining and Natural Resource Sectors. Eugenio Figueroa B, ed. Santiago: Centre-Universidad de Chile. pp. 317-332.
- McFarlane, B.L. and P.C. Boxall. 2000. Factors Influencing Forest Values and Attitudes of Two Stakeholder Groups: The Case of the Foothills Model Forest, Alberta, Canada. *Society and Natural Resources* 13(7): 649-661.
- Miller, J.J., K.F.S.L. Bolton, R.C. de LoN, G.L. Fairchild, L.J. Gregorich, R.D. Kreutzwiser, N.D. MacAlpine, L. Ring and T.S. Veeman. 2000. "Limits on Rural Growth Related to Water." In: D.R. Coote and L.J. Gregorich (eds.), *The Health of Our Water*. Ottawa: Minister of Public Works and Government Services Canada, Agriculture and Agri-Food Canada, Research Branch, Publication 2020/E, Chapter 11, p. 131-139.
- Richards, T.J. and S.R. Jeffrey. 2000. Efficiency and Economic Performance: An Application of the MIMIC Model. *Journal of Agricultural and Resource Economics* 25(1):232-51.
- Rutakumwa, W. and N. Krogman. 2000. Rural Uganda Women's Views about their Health and Health Services. *Women and Environments*. WE Research Section. August Issue, Volume 48/49:28-30.
- Salegio, J., N. Krogman, M. Veeman, and J. Faustino. 2000. Prácticas Agroforestales: Barreras Sociales e Incentivos Para la Participación Rural en El Salvador. *Agroforesteria en las Américas* 7(26):24-26.
- Smith, E.G., Y. Peng, M. Lerohl and F.J. Larney. 2000. Economics of N and P Fertilization to Restore Wheat Yields on Three Artificially Eroded Sites in Southern Alberta. *Canadian Journal of Soil Science* 80:165-169.
- Smith, E.G., M. Lerohl, T. Messele and H.H. Janzen. 2000. Soil Quality Attribute Time Paths: Optimal Levels and Values. *Journal of Agricultural and Resource Economics* 25:1:307-324.
- Veeman, M.M. 1999. Changing Consumer Demand for Food Regulations. *Canadian Journal of Agricultural Economics* 47,4(December 1999):401-410.

Oral Presentations, Posters, Proceedings and Abstracts and Other Items

- Adamowicz, W. "Values in Natural Resource Management." Presented at the Canadian Society for the Study of Practical Ethics meeting. May 27.
- Adamowicz, W. "A National Network for Sustainable Forestry R&D." Presented at FORS&T 2000. October 18-20.

- Adamowicz, W. "Indicators of 'Economic Sustainability': Theory and Practice." Presented at Forests 2000, Thunder Bay, Ontario. May 14-18.
- Adamowicz, W. "Measuring Economic Values for Environmental Quality: Rationale, Methods and Policy Implications." Invited presentation in the series – 50 Years in the Field: R.B. Miller Field Station, 1950-2000. University of Calgary. January.
- Adamowicz, W. "Overlapping Land Use Practices: Economic Implications and Potential Economic Policy Instruments." Invited Keynote Address, Alberta Chapter of the Wildlife Society. Lethbridge, March 10.
- Adamowicz, W., C. Whittaker and D. Hebert. "The Sustainable Forest Management Network: A Framework Informing the Policy Interface of Government, Industry, Science and Communities in the Boreal Forest of Canada." Invited presentation to the IUFRO Task Force: Forest Science-Policy Interface: The Impact of Research on Sustainable Forest Management Policies, A Category III Side Event to the Intergovernmental Forum on Forests 4, United Nations. New York. February 8.
- Adamowicz, W. and P. Boxall. "Future Directions for Stated Choice Methods of Environmental Valuation." Invited Paper to the Kobe Conference on Theory and Application of Environmental Valuation. Kobe, Japan. January.
- Beckley, T. and N.T. Krogman. "Social Impacts of Local Ownership of Forest Products Mills: Employee/Management Buyouts in Canada." Paper presented at the International Symposium on Society and Natural Resources. Bellingham, WA. May.
- Boxall, P. and W. Adamowicz. "Incorporating Endogenous Perceptions of Environmental Attributes in RUMs: The Case of Congestion." Presented at the 2000 Conference *Macrobbehavior and Microresults*, The International Institute on Fisheries Economics and Trade. Corvallis, Oregon. July 10-14.
- Boxall, P. Discussion of Dr. Ken Stollery's paper: "Climate Change and Optimal Rotation in a Flammable Forest." Invited Discussant at the Tenth Annual Meeting of the Canadian Resource and Environmental Economists, University of Guelph, Ontario. October 13-15.
- Boxall, P., J. Englin and K. Rollins. "Heterogeneous Preferences for Wilderness Congestion." Selected paper presented at the 2000 Annual Meeting of the American Agricultural Economics Association. Tampa, Florida. July 30-August 3.
- Boxall, P., J. Englin and K. Rollins. "Recreation Valuation and Congestion: Empirical Analysis Using Panel Estimators." Presented at the Annual Meeting of the Canadian Agricultural Economics Society. University of British Columbia, Vancouver B.C. May 31-June 3.
- Boxall, P. "Modeling Recreation Site Choices: Do Hypothetical Choices Reflect Actual Behaviour?" Invited Address to the Kobe Conference on Theory and Application of Environmental Valuation. Takigawa Memorial Hall, Kobe University, Kobe, Japan. January 22-23.
- Chen, K. "Comparative Study of Agricultural Trade Patterns in the Mainland China and Taiwan." Invited paper presented at the International Symposium on the New Round of WTO Agricultural Negotiations, Taipei, Taiwan, December 7-8.
- Chen, K.Z. "Competition in China's Agri-food Import Market: Pattern, Assessment, and China's Entry to the WTO." Invited paper presented at the Annual Meeting of Canadian Agricultural Economics Society, Vancouver, BC. June 28-July 2.

- Chen, K. "An Empirical Test of Discriminatory Trade in a Source- and Quality-Differentiated Market." Contributed paper presented at the XXXIII International Association of Agricultural Economists (IAAE) Conference. Berlin, Germany. August 14-18.
- Chen, C., K. Chen, and M. Veeman. "The Canadian Household Demand for Major Foods: An Econometric Analysis." Selected paper presented at the Annual Meeting of the Canadian Agricultural Economics Society. Vancouver, BC. June 28-July 2.
- Chen, K., M. Ali, M. Veeman, J. Unterschultz and T. Le. "Importance Rankings for Pork Attributes by Asian Consumers in California: Ordered Probit Model from Choice-Based Sample." Presented at the American Agricultural Economics Association Conference. Tampa, Florida. July 30-August 2.
- Chen, K. and Y. Duan. "Competitiveness of Canadian Agri-food Exports in Asia." Final report submitted to Alberta Agricultural Research Institute. September. 35 p.
- Davidson, D. "A Review of the U.S. Endangered Species Act and it's Applicability to Canada." Invited oral presentation at the Canadian Forest Service, Edmonton. April 6.
- Davidson, D. "NAFTA in the New Millenium: Environmental Challenges." Invited oral presentation at the NAFTA in the New Millenium Conference, San Diego. October 14-15.
- Davidson, D. "A Framework for the Environmental State." Oral roundtable presentation at the Annual Meetings of the American Sociological Association. August 9.
- Dong, X.Y., M. Veeman and T. Veeman. "The Chinese Enigma: Impacts of WTO Accession Upon Canadian and U.S. Exports and Imports." Invited paper presented at the Canadian Agricultural Economics Annual Meeting. Vancouver, BC. June 2.
- Fluet, C., N. MacKendrick, D. Davidson, and N.T. Krogman "Integration of Forestry and Oil and Gas Regimes: Opportunities and Constraints." Poster at the Sustainable Forest Management Network Open House. University of Alberta. November 3.
- Haener, M., P. Boxall and W. Adamowicz. "Do Hypothetical Choices Predict Actual Behaviour." Invited Paper to the Kobe Conference on Theory and Application of Environmental Valuation. Kobe, Japan. January. Also Presented at the Western Agricultural Economics Association Annual Meeting, and Western Economics Association International Meetings. Vancouver, B.C. June 28-July 3.
- Hauer, G.K. Review of "Environmental Design and Race to the Bottom." by Joel Bruneau. Paper presentation at 2000 Canadian Resource and Environmental Economists Workshop. Date??
- Hauer, G.K. Review of "Carbon Preparedness of Canadian Companies: Is There Too Much Reliance on the Forestry Option?" by T. Takahashi, M. Nakamura, G. van Kooten and I. Vertinsky. Paper presentation at the Western Agricultural Economics Association Meetings, Vancouver, BC. June 29-July 3.
- Hauer, G.K., D.T. Price and T. Williamson. "Managing Canada's Boreal Forest Carbon Stock Under Carbon Incentives." Invited paper presentation at the Western Agricultural Economics Association Meetings. Vancouver, BC. June 28-July 3.
- Kim, R., M. Veeman and J. Unterschultz. "Effect of Product Origin on Millers' Choice of Imported Wheat for Noodle Market Segments in Japan and South Korea." Presented at IAMA Agribusiness Forum. Chicago. June 26-28.
- Kim, R., J. Unterschultz and M. Veeman. "Japanese Miller's Preferences for Wheat and Flour: A Stated Preference

- Approach.” Contributed paper presented at the Western Agricultural Economics Association Meetings. Vancouver, BC. June 28-July 1.
- Kim, R.B., M. Veeman and J. Unterschultz. “South Korean Wheat and Flour Market Comparisons: A Stated Preference Analysis.” Contributed paper presented at the International Association of Agricultural Economics Conference. Berlin. August 13-18.
- Krogman, N. and L. Treseder. “Cooperative Forest Management: Opportunities and Challenges for Management.” Invited Web Access presentation by Sustainable Forest Management Network. October 31.
- Krogman, N., J. Varghese, T. Beckley and S. Nadeau. “Local Control and Ownership: Refining our Analytical Approach in Sociology.” Paper presented at Rural Sociological Society Meetings, Washington, DC. August.
- Lee, M., J. Unterschultz and M. Lerohl. “The Potential of Supply Chain Management in the Canadian Feed Barley Industry.” Presented at the Conference on Economics of Contracting in the Agricultural Sector. Saskatoon, Saskatchewan. December 8.
- Lerohl, M. and J. Unterschultz. “Agriculture in Canada: Who Will Grow the Food?” Invited paper presented at the Western Agricultural Economics Association Meetings. Vancouver, BC. June 29-July 1.
- Lerohl, M. “Retrospective Overview and Prospects for the Canadian Wheat Board.” Presented at the Alberta Agricultural Economics Association Visions 2000 Conference, Red Deer, Alberta. May 11.
- Luckert, M. “Agroforestry: Southern Africa, An Overview.” Presented at an Agroforestry Planning Workshop, University of Alberta, Edmonton, July.
- Luckert, M. “Review of the AFSA Project as of July, 2000.” Presentation made at the workshop; AFSA, The Way Forward, Jasper National Park, Alberta, July.
- Luckert, M. “Can We Be Social Engineers With Respect to Property Rights to Indigenous Natural Resources?: Evidence from Rural Zimbabwe.” Presented to Eighth International Symposium on Society and Resource Management, Bellingham, Washington, June.
- Luckert, M. “CIDA Tier II: Challenges in Conceptualization and Application for the project Agroforestry: Southern Africa.” Invited Presentation at the 2000 Congress of the Social Sciences and Humanities, Canadian Association of African Studies Sub-group, University of Alberta, Edmonton, May.
- Luckert, M. “CIDA Tier II: Challenges in Implementation and Running the Project Agroforestry: Southern Africa.” Invited Presentation at the 2000 Congress of the Social Sciences and Humanities, Canadian Association of African Studies Sub-group, University of Alberta, Edmonton, May.
- Luckert, M. “An Economist’s View of Community Forestry.” Invited Presentation and Panel Discussant delivered at the Conference, Forest Sustainability Beyond 2000, Thunder Bay Ontario, May.
- Luckert, M., J. Wilson, V. Adamowicz, and A.B. Cunningham. “Household Resource Allocations in Response to Dynamic Environments in Rural Zimbabwe.” Presented to Eighth International Symposium on Society and Resource Management. Bellingham, Washington. June.
- MacKenzie, J. and N.T. Krogman. “Canadians Back Bacon: Incorporating Public Participation into the Decision Making Process.” Poster at Research Revelations, University of Alberta. February.
- Murray, G., P. Boxall, and R. Wein. “Sustainable Non-timber Forest Products in the Gwich’in Settlement Area: Their

- Distribution and Abundance.” Poster presented at the Sustainable Forest Management Network Student Workshop, November.
- Naidoo, R. and W. Adamowicz. “Effects of Economic Prosperity on Numbers of Threatened Species.” Presented at the Society for Conservation Biology Meetings. Montana. June.
- Nanang, D. and G.K. Hauer. “Optimization-Based Forest Planning Tools for Sustainable Forest Management.” Poster for Sustainable Forest Management Network Annual Student Workshop, Edmonton, Alberta. November 2-4.
- Ng, D. “Cognitive Dissonance in the Swine Value Chain.” Invited break out presentation at the Banff Pork Seminar January. Proceedings of the Advances in Pork Production. 12:1-4.
- Quagraine, K., J. Unterschultz, M. Veeman and S. Jeffrey. “Is the Canadian Food Industry Oligopsonistic?” Presented at the Canadian Agricultural Economics Association Meetings. Vancouver, BC. June 2.
- Quagraine, K., J. Unterschultz and S. Jeffrey. “The Impact of Value-Adding on Western Canadian Agriculture.” Contributed paper presented at the Western Agricultural Economics Association Meetings. Vancouver. June 29-July 1.
- Quagraine, K., J. Unterschultz, S. Jeffrey and M. Veeman. “Testing Imperfect Competition in Agricultural Markets: An Alternative Index Measure.” Paper presented at the International Association of Agricultural Economics Conference. Berlin. August 13-18.
- Salegio, J. and N.T. Krogman. “Agroforestry Practices: Social Barriers and Incentives to Rural Participation in El Salvador.” Poster at Research Revelations, University of Alberta. February.
- Sankar, A., M. Lerohl and J. Unterschultz. “Market Preferences of Canada and United States Malt Barley Purchasers.” Poster at Research Revelations, University of Alberta. February.
- Schramm, T. and N.T. Krogman. “Principals of Woodland Cree Natural Resource Use: Challenges for Applied Resource Planning and Management.” Paper presented at Canadian Indigenous and Native Studies Association Meetings. Edmonton, AB. May.
- Schramm, T. and N.T. Krogman. “Using Indigenous Ecological Knowledge in Critical Wildlife Habitat Research: A New Approach.” Paper presented at the International Symposium on Society and Natural Resources. Bellingham, WA. June.
- Schramm, T., L. Treseder, and N.T. Krogman. “Conducting Forestry Research in First Nation Communities: Notes from the Field.” Poster presentation at the Forest Beyond 2000 Conference in Thunder Bay, ON. May 14-17. Poster also presented at the Sustainable Forest Management Network Open House, University of Alberta. November 3.
- Treseder, L. and N.T. Krogman. “First Nations and Forest Management: An Overview of Social Institutions.” Poster at Research Revelations, University of Alberta. February.
- Treseder, L. and N.T. Krogman. “Co-operative Forest Management in Northern Alberta: Opportunities and Challenges.” Paper presented at Canadian Indigenous and Native Studies Association Meetings. Edmonton, AB. May.
- Treseder, L. and N.T. Krogman. “Representation Issues in Co-operatives Forest Management in Northern Alberta.” Paper presented at the International Symposium on Society and Natural Resources. Bellingham, WA. June.
- Unterschultz, J. “Managing Market Risk in Western Canadian Agriculture.” Invited paper presented at the Canadian

Agricultural Economics Association Meetings. Vancouver. June 2.

Unterschultz, J., M. Lee, M. Lerohl. "Supply Chain Competency: the Barley Industry." Poster at Research Revelations, University of Alberta. February.

Veeman, M. "Review of Canadian Agricultural Policy." Invited paper presented to Agricultural and Food Policy Systems Information Workshop sponsored by Farm Foundation and Agriculture Canada. San Diego, February 17-19.

Veeman, M. "The Next Ten Years: Issues and Challenges for Agricultural Trade and Policy." Invited presentation to University of Alberta - University of California, San Diego. Roundtable on NAFTA, UCSD, October 15.

Veeman, T.S. and A. Hailu. "Alternative Methods for Environmentally Sensitive Productivity Analysis." Selected Paper presented at the XXIV International Conference of Agricultural Economists, Berlin, Germany, August 13-18.

Veeman, T.S. and A. Hailu. "Comparative DEA Analysis of Productivity Growth in Boreal Logging Industries." Selected contributed paper presented at the Canadian Agricultural Economics Society Annual Meeting, Vancouver, BC, June 1-4.

Veeman, T.S. and S. Islam. "Pesticide Productivity in Alberta Crop Production." Selected contributed paper presented at the Canadian Agricultural Economics Society Annual Meeting, Vancouver, BC, June 1-4.

Weersink, A. and S.R. Jeffrey. "Farm Level Modelling for Bigger Issues." Invited Paper presented at the Australian Agricultural and Resource Economics Society Conference. Sydney. January.

Wortley, D and N.T. Krogman. "A Yukon Perspective: The Role of Renewable Resource Councils in Community Based Forest Management Planning." Paper presented at the Arctic Science 2000 Crossing Borders Conference, Whitehorse, Yukon. September.

Staff Papers and Research Project Reports

Adamowicz, W.L., J.R.R. Alavalapati, G.W. Armstrong, M.K. Haener, J.H. Jabs and M.N. Patriquin. *Assessing the Economic Impacts of Natural Disturbance Forest Management*. Project Report 2000-30. Sustainable Forest Management Network, University of Alberta, Edmonton, Alberta. 23 p.

Armstrong, G.W., W.L. Adamowicz, J.A. Beck, S.G. Cumming and F.K.A. Schmiegelow. *Integrated Resource Management in the Context of the Range of Natural Variability*. Working Paper 2000-09. Sustainable Forest Management Network, University of Alberta, Edmonton, Alberta. 29p.

Chen, K. and C. Chen. *Cross Product Censoring in a Demand System with Limited Dependent Variables: A Multivariate Probit Model Approach*. Staff Paper 00-02. Department of Rural Economy, University of Alberta, Edmonton, Alberta. 22 p.

Haener, M, P.C. Boxall, and W.L. Adamowicz. *Modeling Recreation Site Choice: Do Hypothetical Choices Reflect Actual Behavior?* Staff Paper 00-01. Department of Rural Economy, University of Alberta, Edmonton, Alberta. 25 p.

MacKenzie, J. and N. Krogman. *An Analysis of the Municipal and Provincial Decision-Making Processes for Siting Hog Operations in Alberta, Saskatchewan, and Manitoba*. Alberta Agricultural Research Institute (AARI). Project #990082. 36 p.

- Novak, F. and J. Unterschultz. *Pork Risk Management Strategies for the Alberta Hog Industry*. AARI Project # 96M935. Project Report 00-03. Department of Rural Economy, University of Alberta, Edmonton, Alberta. 151 p.
- Swait, J., W. Adamowicz and M. van Bueren. *Choice and Temporal Welfare Impacts: Dynamic GEV Discrete Choice Models*. Staff Paper 00-03. Department of Rural Economy, University of Alberta, Edmonton, Alberta. 43 p.
- Treseder, L. and N.T. Krogman. *The Effectiveness and the Potential of the Caribou-Lower Peace Cooperative Forest Management Board*. Sustainable Forest Management Project Report 2000-19. 20 p.
- Treseder, L. and N.T. Krogman. *The Potential of the Cooperative Natural Resource Management Process in Northern Alberta and Challenges for Implementation*. Final report to the Cooperative Renewable Natural Resources Planning Board. 26 p. SFMN published report.
- Treseder, L. and N.T. Krogman. *Cooperative Management in the First Nation Traditional Territories: Community Perspectives and Participation*. Final report to the Little Red River Cree Nation and Tallcree First Nation. 10 p. SFMN published report.
- Unterschultz, J. *New Instruments for Co-ordination and Risk Sharing Within the Canadian Beef Industry*. AARI Project # 96H070. Project Report 00-04. Department of Rural Economy, University of Alberta, Edmonton, Alberta. 148 p.
- Unterschultz, J.R., S.R. Jeffrey, K.K. Quagraine. *Value-Adding 20 Billion By 2005: Impact at the Alberta Farm Gate*. AARI Project #980842. Project Report 00-05. Department of Rural Economy, University of Alberta, Edmonton, Alberta. 90 p.
- Veeman, M. and W. Adamowicz. *Consumer's Perception of Environmental Risks and the Demand for food Safety*. AARI Project #970730. Project Report 00-01. Department of Rural Economy, University of Alberta, Edmonton, Alberta. 33 p.
- Veeman, M. and J. Unterschultz. *Pork Market Development Research Project: Market Potential for Alberta's Pork in Selected U.S. Markets*. AARI Project #97M092. Project Report 00-02. Department of Rural Economy, University of Alberta, Edmonton, Alberta. 54 p.
- Watson, D., J. Miller, P. Boxall and J. Unterschultz. *The Economics of Riparian Management: A Literature Review*. Project Report 00-06. Department of Rural Economy, University of Alberta, Edmonton, Alberta. 13 p.

Other Research Projects Completed January 1 - December 31, 2000

- Boxall, P.C. "Examination and Explanation of Trends in Recreational Hunting in Alberta." Funded by Alberta Environmental Protection.
- Chen, K.Z. "Export Competitiveness of Canadian Agri-Food Industries Relative to its Major Competitors." Funded by AARI.
- Chen, K.Z. "Food Demand and Consumer Behaviour in Canada: Evidence from Microdata." Funded by SSHRC.
- Chen, K.Z. "Demand for Food-Away-from-Home by Canadian Households." Funded by Endowment for the Future: Support for the Advancement of Scholarship.
- Chen, K.Z., M.L. Lerohl. "An Analysis of Socio-Economic and Demographic Factors Associated with Consumers' Purchase of Potato Products in Western Canada." Funded by AARI.

- Hauer, G.K. "Leadership in Collective Action Experiments." Funded by EFF-SAS.
- Hauer, G.K. "Socio Economic Impacts and Adaptive Responses to Climate Change: A Canadian Forest Sector Perspective." Funded by Natural Resources Canada, Canadian Forest Service.
- Jeffrey, S.R. "An Assessment of the Economic Impact of BST on the Alberta Dairy Sector." Funded by Alberta Agricultural Research Institute and the Alberta Milk Producers Society.
- Krogman, N.T. Research funded by U of A Research Excellence Envelope.
- Krogman, N.T. "Travel and Consulting Funds to Develop Sampling Frame and Gather Survey Data on Farmer Wetland Conservation Behavior Throughout Southeastern Alberta." Funded by General Research Fund, University of Alberta.
- Krogman, N.T. and H.G. Brooks. "An Analysis of the Municipal and Provincial Decision Making Processes for Siting Hog Operations in Alberta, Saskatchewan and Manitoba." Funded by Canada-Alberta Hog Industry Development Fund and Farming for the Future, AARI.
- Lerohl, M.L. and J.R. Unterschultz. "Supply Chain Competency: Recipe for Cereal and Livestock Marketing in Alberta." Funded by AARI.
- Luckert, M. "Foothills Model Forest." Funded by Foothills Model Forest.
- Novak, F.S. and S.R. Jeffrey. "An Economic Analysis of Alternative Whole Farm Stabilization Programs." Funded by Alberta Agricultural Research Institute Matching Grants Program with matching funds from SSHRC Project re: NISA.
- Novak, F. and J. Unterschultz. "Price Risk Management: Strategies for the Alberta Hog Industry." Funded by Alberta Agricultural Research Institute.
- Unterschultz, J.R. "New Instruments for Coordination and Risk Sharing Within the Canadian Beef Industry." Funded by AARI.
- Veeman, M.M. "State Trading Enterprises: Impacts on Agricultural Trade and Forthcoming Agricultural Trade Negotiations." Funded by EFF - Support for the Advancement of Scholarship.
- Veeman, M. and W. Adamowicz. "Consumer Perceptions of Environmental Risks and Demand for Food Safety." Funded by Alberta Agricultural Research Institute.
- Veeman, M.M. and J.R. Unterschultz. "Market Potential for Pork in Selected US Markets." Funded by Federal-Provincial Market Development Council and Alberta Pork Producers Marketing Corp. and Alberta Agriculture Research Institute.
- Veeman, T.S. "Research Contributions to Crop Improvement and Agricultural Productivity." Funded by AARI.

Research in Progress as of December 31, 2000

- Adamowicz, W.L. "Integrating Household/Group Preferences into Models of Choice and Environmental Valuation." Funded by SSHRC.

Adamowicz, W.L. "Forest Use and Non-Use Values: A Research Program Proposal." Funded by Mistik Management Ltd.

Adamowicz, W.L. "Legacy 2; Economic Sustainability: An Assessment of Criteria and Indicator Systems for Economic Components of Sustainable Forest Management." Funded by Network of Centres of Excellence on Sustainable Forest Management.

Adamowicz, W.L. Legacy 2; Modeling Spatial and Temporal Economic Activity in Forested Landscapes: Forest Management, Non-timber Values, Habitat, Wildlife Access, Cumulative Effects, Disturbance, Recreational Use, Subsistence Use and Human Dynamics. Funded by Network of Centres of Excellence on Sustainable Forest Management.

Adamowicz, W.L. "Modeling Non-timber Benefits via Benefits Transfers." Funded by Network of Centres of Excellence on Sustainable Forest Management.

Adamowicz, W.L. and P.C. Boxall. "Environmental Valuation for Use in Forest Management and Decision Making." Funded by SSHRC with matching funds from NSERC.

Adamowicz, W., M. Luckert, W. White. "Assessing the Economic Impacts of a Natural Disturbance Forest Management Regime." Funded by Network of Centres of Excellence on Sustainable Forest Management.

Beckley, T. "Legacy 2: Understanding Forest User's Sense of Place: Implications for Forest Management." Funded by Network of Centres of Excellence on Sustainable Forest Management.

Beckley, T., E. Murray, W. White. "Sustainable Communities." Funded by Network of Centres of Excellence on Sustainable Forest Management.

Boxall, P.C. "Enhancing the Quality of Benefit Transfers: An Application of State of the Art Latent Class Methods." Funded by EFF.

Boxall, P.C. "Legacy 2; Developing Sustainable Non-timber Forest Products Business Opportunities: Is there a First Nation Advantage?" Funded by Network of Centres of Excellence on Sustainable Forest Management.

Boxall, P.C. "Model on the Economics of Riparian Management Project. Funded by Cows and Fish.

Chen, K.Z. "Assessing the Chinese Markets for Alberta Livestock Products." Funded by AARI.

Chen, K.Z. "The Changing Patterns of Agricultural Trade in Mainland China and Taiwan." Funded by SSR.

Chen, K.Z. "China's Agri-food Imports: Implications of China's Accession to WTO for Canada." Funded by EFF.

Chen, K.Z. "Dynamics of China's Livestock Markets." Funded by Social Science.

Chen, K.Z. "Intra-household Preferences, Food Demand, and Consumer Behaviour." Awarded from Walter Street Estate and VP Research and External Affairs.

Chen, K.Z. and M.L. Lerohl. "Factors Associated with Consumer Purchases of Potato Products in Western Canada." Funded by Alberta Potato Research Association.

Chen, K.Z. and M.M. Veeman. "Where, What and How Much Food Do Canadian Consumers Purchase? Food Purchasing Patterns and Determinants." Funded by FFF-AARI.

Davidson, D.J. "The Impact of NAFTA on Forest-dependant Communities in Canada, the US, and Mexico." Funded

- by SSHRC - Sponsored Junior Faculty Program.
- Davidson, D.J. "Integration of Forestry and Oil/Gas Policy Regimes: Opportunities and Constraints." Funded by Network of Centres of Excellence on Sustainable Forest Management.
- Davidson, D.J. "Political Climate Modelling: Predicting Socio-Political Responses to Climate Change in the Prairie Provinces." Funded by NRC.
- Hauer, G.K. "How Do Climate Change Incentives Affect Forestry Management." Funded by BIOCAP Canada.
- Hauer, G.K. "Legacy 2: Optimization-based Forest Planning Tolls for Sustainable Forest Management." Funded by SFM.
- Hauer, G.K. "Climatic Change Impacts on Agriculture/Forestry Land Use Pattern: Development and Applying an Integrated Economy-Ecosystem Response and Adaptation Impact Assessment Model." Funded by NRC/CCAF.
- Hauer, G.K. "Validating a Climate Responsive Agricultural Forests Land Use Change Model." Funded by EFF-SAS.
- Hauer, G.K. and H.B. Brooks. "The Role of Leadership and Institutional Roles in Agricultural Cooperatives." Funded by AARI with partial funding by the Co-op Chair.
- Jeffrey, S.R. "An Economic Evaluation of Alberta Crop Insurance and its Relevance in the 21st Century." Funded by FFF-AARI.
- Jeffrey, S.R. "A Dynamic Economic Analysis of Productive Efficiency in Alberta Dairy Production." Funded by Alberta Agricultural Research Institute and the Alberta Milk Producers Society.
- Jeffrey, S.R. and K.Z. Chen. "Implications of International and Interprovincial Trade Liberalization and Dairy Production and Processing." Jointly funded by Alberta Agricultural Research Institute and Agriculture Canada.
- Krogman, N.T. "Aboriginal Perceptions of their Relationship to the Forest and Increased Forestry Activity. Funded by EFF-SAS.
- Krogman, N.T. "The Effectiveness and Potential of the Cooperative Forest Management Planning Board in the Caribou-Lower Peace Region." Funded by SFM-NCE.
- Krogman, N.T. "The Role of Renewable Resource Councils in Community Based Forest Management Planning in the Yukon: The Case of the Alsek Renewable Resource Council." Funded by SFM.
- Krogman, N.T. and R.M. Hudson. "SES Theme: Caribou Mountains Critical Wildlife/Habitat Integrated Research Project." Funded by SFM-SES.
- Krogman, N.T. and T.M. Beckley. "Social Consequences of Local Ownership of Canadian Forest Producer Mills." Funded by Social Sciences and Humanities Research Council of Canada.
- Lerohl, M.L. "Grain-Livestock Industry Research." Funded by Alberta Agriculture.
- Lerohl, M.L. "The New Millenium: Structured Change in Agriculture and Agribusiness." Funded by EFF-SAS.
- Luckert, M.K. "Legacy 2; Socio-economic Assessments of Intensive Forest Management." Funded by Network of Centres of Excellence on Sustainable Forest Management.

Luckert, M.K. and E. Murray. "Agroforestry: Southern Africa." Funded by CIDA.

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