

**Department of Agribusiness and Applied Economics  
North Dakota State University**

**ANNUAL REPORT  
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## **I. Goals and Accomplishments for 2008**

- Four faculty members were hired to fill open positions. Drs. Joleen Hadrich, David Roberts, and Jeremy Jackson will begin their faculty roles in August, 2009. Dr. Ryan Larson will join us in March, 2010.
- Dr. Tom Wahl resigned his administrative responsibilities this past spring (March 2009), and is teaching several courses as well as pursuing research in our department.
- Dr. David Lambert resigned (summer 2009) to take the position of department head at Kansas State University.
- The department spent considerable time and effort throughout the spring and summer of 2009 to prepare for the August move to Richard H. Barry Hall. Staff digitized all departmental reports so they are available on a memory stick; we also are posting the reports to the department web site.
- The department's Graduate Program Committee (GPC) and Undergraduate Program Committee (UPC) are working on programmatic learning objectives in an effort to facilitate the development of course learning objectives. This effort will provide a framework for reviewing and revising the curriculum and finalizing an assessment plan.
- Staff is updating the department web site to assure we are effectively disseminating our information to clientele, updating peers on our activities, and attracting students to our academic programs.
- Faculty is developing a strategic vision for the department.
- Faculty members continue to lead centers within the department, as well as centers in the College and University. These centers include
  - Center for Agricultural Policy and Trade Studies
  - State Census Data Center
  - Quentin Burdick Center for Cooperatives
  - Center for Community Vitality
  - Bio Energy and Product Innovation Center
  - Oilseeds Center of Excellence
- Much of the department's report is contained a subsequent section on "Planning"; see pages 21-29.

### **A. Instruction and Student Success**

#### 1. Teaching initiatives, and innovation

- The department's faculty curriculum committees (UPC and GPC) are working on programmatic and course learning objectives.

#### 2. Advising initiatives and innovation

- The department assigned a staff member (Shelly Swandal) to assist with undergraduate student advising; her role is to complement ongoing advising by faculty members.

#### 3. Curriculum development including new programs, deletion of programs, administrative changes

- None to report

#### 4. Accreditation or other reviews

- None to report

#### 5. Activities in student recruitment/retention, enrollment management, and other

student activities

- The Agribusiness Club continues to function; Dr. Wilson is the faculty advisor.
- The NDSU Student Chapter of NAMA continues to function under the guidance of Dr. Tom Wahl and with support from the local professional NAMA organization. The students represented NDSU well at national competition in spring by earning the 5<sup>th</sup> place award.

6. Distance education (including on-line) progress

- The department has not developed a coordinated approach for offering on-line courses. ECON 105, 201, and 202 are offered on-line, primarily as a result of individual faculty initiatives. AGE 374 (Cooperatives) and 375 (Applied Agricultural Law) are offered via IVN to one or more NDUS campuses due to individual faculty initiatives and in response to request from interested clientele. Although the instructors continue to enhance their courses, the department has not developed an overall distance education strategy.
- Extension educators continue to increase their use of technology to deliver educational programs to complement their ongoing face-to-face interactions. Video conferencing (i.e., ND IVN), voice over PowerpointSlides, Wimba and similar technologies are some of the tools being used by our Extension educators.

7. Assessment

- The department is behind in providing a plan for assessing its undergraduate and graduate instruction. This need is being addressed as part of the curriculum review.

## **B. Research/Creative Activity**

### 1. Research and Creative Activities

The faculty continues to conduct research effectively, as measured in terms quantity and formats of publications (e.g., professional articles and public documents), and in terms of research grants. These accomplishments are listed in subsequent sections.

Our research addresses issues relating to risk management (e.g., crop insurance and marketing contracts), public policy implications for North Dakota and the region, economic impact of business development, strategies for community development, cooperative business organizations, consumer food preferences, economics of food safety and obesity, water resource management, transportation economics, and macro economic trends.

The following list (based on recent CRIS reports) provides a few examples of recent research efforts; this short list does not fully represent the department's research and Extension programs.

- Biofuel plants are demanding a large influx of capital; the ability of financial markets to supply needed credit is unclear due to 1) impediments that have reduced the borrowing capacity of biofuel firms, 2) uncertainty surrounding future industry performance benchmarks, tax provisions, and implementation of current biofuel legislation, and 3) the need for new risk management strategies which protect profit margins during volatile economic times. These factors will constrain growth of the cellulosic ethanol industry.
- Demographic changes in the state pose important policy concerns. Retirement of "babyboomers" and heightened demand for services as a result of a growing elderly

population will impact state and regional labor forces and potential tax shortfalls. For example, research projects a loss of over 29,000 workers in the prime working-age population in North Dakota, those between the ages of 35-54 between 2000 and 2015. This translates into lost wage-earnings expected to exceed \$963 million. Since 72 percent of North Dakota's adjusted gross income reported on federal tax forms in 2004 was from wage and salaries, this significant loss of income may have important tax repercussions.

- Lower real prices of sugar contribute significantly to higher “body mass index” values and increase the likelihood of becoming obese in the United States.
- Grain shipments in the Mississippi River system are projected to not increase substantially in part due to growth in domestic processing (e.g., ethanol production), and due to competition from other ports and rail shuttle shipments. However, costs due to transportation delays are not inconsequential.
- Grain handling practices/mechanisms to facilitate co-existence between GM and non-GM wheat can be devised at a relatively modest cost and risk; but, it is incumbent on buyers to change their purchasing strategies.
- Genetic marker (Exon 2 position 305 of the leptin gene) demonstrated a statistical relationship to fed cattle profitability. This result implies that this genetic marker is a good candidate for marker-assisted selection.
- Changes in corn basis price near ethanol plants which have or may shut down temporarily were studied to understand the economic impact of reducing state-level ethanol subsidies. The impact that reducing state-level subsidies would have on ethanol market participants also was studied.

## 2. Grants and Contracts

The following tables list the department’s research and creative activities, grants and contracts, and presentations. These are not all new grants for 2008-2009; some are continuation from past years. Also, some of these grants are collaborative efforts so all of these funds are not necessarily available to faculty in the Department of Agribusiness and Applied Economics.

**Grants/Contracts****Department of Agribusiness and Applied Economics – AY2008 Grants and Contracts**

<b>Investigator(s)</b>	<b>Agency</b>	<b>Project Title</b>	<b>Awarded</b>
Aakre, Dwight	North Central Risk Management Education Center	Wind Tower Development	<b>\$15,981</b>
Aakre, Dwight	North Dakota Commerce Department	Extension Publication Addressing Wind Tower Contracts	<b>\$15,500</b>
Gustafson, Cole	USDA-RMA	Risk Navigator Conference	<b>\$500</b>
Gustafson, Cole	Farm Foundation	Travel Scholarship	<b>\$ 1,000</b>
Gustafson, Cole	USDA-SCRESS	North central Canola Research Program	<b>\$ 1,500</b>
Gustafson, Cole	Great Plains Institute	Biomass Producer Economic Model	<b>\$50,000</b>
Koo, Won	USDA/CSREES	Bio-energy Production and U.S. Agricultural Competitiveness	<b>\$322,000</b>
Koo, Won	USDA/CSREES	Multifunctional Biomass Production for Ethanol from High Diversity CRP Grasslands	<b>\$133,000</b>
Koo, Won	ND Farmers Union	Funds for the Center for Agricultural Policy and Trade Studies	<b>\$50,000</b>
Koo, Won	American Crystal Sugar Company	Funds for the Center for Agricultural Policy and Trade Studies	<b>\$20,000</b>
Koo, Won	ND Corn Growers Association	Funds for the Center for Agricultural Policy and Trade Studies	<b>\$20,000</b>
Lambert, David K. F. Larry Leistritz	North Central Region Sun Grant	The Logistics of Herbaceous Crop Residue-Based Ethanol Production under Uncertainty	<b>\$145,090</b>
Leistritz, F. Larry	North Dakota Petroleum Council	Contribution of the Petroleum Industry to the North Dakota Economy in 2007	<b>\$17,500</b>
Leistritz, F. Larry	UND-EERC	Economics of Carbon Sequestration in the PCOR Region	<b>\$47,150</b>
Leistritz, F. Larry	North Dakota Renewable Energy Council	Developing a Biomaterials Industry in North Dakota	<b>\$800,000</b>
Leistritz, F. Larry	USDA-CSREES Rural Development Center	Estimating the Economic Contribution of Heritage and Cultural Tourism	<b>\$37,500</b>
Leistritz, F. Larry	North Dakota Department of Commerce	Estimating the Economic Impact of North Dakota's Centers of Excellence Program	<b>\$16,500</b>
Leistritz, F. Larry	USDA-CSREES-NRI Rural Development Program	Marketing Communities to Attract and Retain Rural Workers	<b>\$42,149</b>
Leistritz, F. Larry	USDA-CSREES	Renewable Energy and Products	<b>\$139,998</b>
Leistritz, F. Larry	Great River Energy	Biomass Co-Firing Feasibility Assessment	<b>\$32,890</b>
Lim, Siew	USDA Forest Service	Modeling of Public Knowledge, Attitudes, and Values Related to Wild Fire, Fire Risk and Fire Recovery in the Wildland Urban Interface and the Southern United States	<b>\$7,500</b>
McKee, Gregory	North Dakota Farmers Union	Analyzing the Financial Performance of North Dakota Agricultural Cooperatives	<b>\$3,763</b>
McKee, Gregory	CHS Foundation	Cooperative Leaders in the Classroom	<b>\$1,200</b>

McKee, Gregory	University of Saskatchewan, Knowledge Impact on Society Project	North American Bison Cooperative and North Dakota Beef LLC: Governance Issues in a Contractual Alliance	<b>\$800</b>
McKee, Gregory	Kansas State University	Current Issues in Renewable Energy in Northern Great Plains	<b>\$25,000</b>
McKee, Gregory	North Dakota Farmers Union Educational Foundation	Cooperative Business Model Curriculum Development for Secondary Schools	<b>\$22,500</b>
Miljkovic, Dragan	USDA/CSREES	Food Safety Risk Assessment	<b>\$182,750</b>
Petry, Tim	SBARE Animal and Corn Committees	Effect of DDGS Substitution for Hay When Fed Pre-and Post-Calving on Cow Body Condition, Cow and Calf Performance, and Reproductive Performance	<b>\$32,354</b>
Petry, Tim	North Central Risk Management Education Center 2008 Competitive Grant Project	Livestock Insurance Education Program for North Dakota	<b>\$11,892</b>
Rathge, Richard	USDA-CSREES	Regional Center for Rural Development in North Dakota	<b>\$79,635</b>
Rathge, Richard	ND Health Department	Evaluation of the state-Based Oral Disease Prevention Program	<b>\$26,000</b>
Rathge, Richard	Annie E. Casey Foundation	North Dakota Kids count-2008	<b>\$75,000</b>
Rathge, Richard	North Dakota Head Start	Head Start Program Profile	<b>\$6,000</b>
Rathge, Richard	Northwest area Foundation	New Horizons Project	<b>\$6,000</b>
Rathge, Richard	North Dakota Head Start	Head Start Program Evaluation	<b>\$12,000</b>
Rathge, Richard	North Dakota Housing Finance Agency	SHARP Website	<b>\$7,000</b>
Rathge, Richard	ND Health Department	Evaluation of the Early Childhood Comprehensive Systems (ECCS) Program	<b>\$25,000</b>
Rathge, Richard	ND Health Department	Epidemiology Support for the Early Childhood Comprehensive Systems (ECCS) Program	<b>\$34,000</b>
Rathge, Richard	Clay County Public Health	Active Living in Moorhead	<b>\$20,000</b>
Rathge, Richard	NDSU	Support for the North Dakota State Data Center	<b>\$140,000</b>
Shaik, Saleem	Mississippi State University	Actuarial Analysis: Development of Aquaculture Premium Rates	<b>\$24,786</b>
Tweeten, Kathy	President Chapman	IBID Program	<b>\$53,000</b>
Tweeten, Kathy	Department of Commerce	Division of Community Services for BAND Program	<b>\$26,661</b>
Tweeten, Kathy	NWAF	Phase III of Horizons	<b>\$1,040,000</b>
Tweeten, Kathy	NWAF	Alumni Horizons Communities	<b>\$45,000</b>
Tweeten, Kathy	Prime USDA CSREES NRI	Un-L	<b>\$42,851</b>
Wachenheim, Cheryl	USDA/CSREES	Great Plains portal to food safety: Educating tomorrow's leaders, Part II	<b>\$13,500</b>
Wachenheim, Cheryl	USDA/CSREES	Great Plains portal to food safety: Educating tomorrow's leaders	<b>\$156,000</b>

Wilson, William	Center of Excellence	II Oilseed Development	<b>\$425,000</b>
Wilson, William	NDSU Center of Excellence for AgBiotechnology	Oilseed Development	<b>\$444,597</b>
Wilson, William		Durum Marketing on a variety basis	<b>\$10,000</b>
Wilson, William		Market development and support for NCI activities	<b>\$18,000</b>
Wilson, William	Minnesota Wheat Growers Assoc	Competitive analysis of producing and marketing HRS with and without commercialization of biotechnology traits	<b>\$20,000</b>
Wilson, William	NRI	Market Mechanisms to Facilitate Commercialization of Genetically Modified Grains: Testing, Tolerances, Segregation, Traceability and Contracting	<b>\$136,526</b>
Wilson, William	Succeeds ND	Economic Assessment of Changes in Trade Arrangements, Bio-terrorism and Renewable Fuels Requirements on the U.S. Grain and Oilseed Sector	<b>\$180,000</b>
Wilson, William	Monsanto	Center of Excellence Support in AgBiotechnology	<b>\$250,000</b>
<b>TOTAL</b>			<b>\$5,369,633</b>

Average per Grant \$94,204.09

### 3. Articles/Books/Publications

This section lists faculty productivity in terms of Refereed Journal Articles, Books/Book Chapter, Edited Works, Proceedings, Abstracts, Department Reports, Extension/Outreach Publications, Popular Articles (written by faculty member), and Popular Articles (about the department or faculty member).

#### **REFEREED JOURNAL ARTICLES (56 Total)**

1. Baek and Koo, "Identifying Macroeconomic Linkages to U.S. Agricultural Trade Balance," *Canadian J. of Agricultural Economics*, Vol. 56, No.1 (2008): 63-78.
2. Baek and W. Koo (2008) "Assessing Exchange Rate Sensitivity of U.S. Bilateral Agricultural Trade." *Canadian Journal of Agricultural Economics*. Forthcoming.
3. Baek, J., and W. Koo (2008) "Identifying Macroeconomic Linkages to U.S. Agricultural Trade Balance." *Canadian Journal of Agricultural Economics* 56(1): 63-77.
4. Bangsund, Dean A., Eric DeVuyst, and F. Larry Leistritz. 2008. An Economic Analysis of the Waffle, *Journal of Soil and Water Conservation (forthcoming)*  
Leistritz, F. Larry, and Randal C. Coon. 2008. Socioeconomic Impacts of Developing Wind Energy in the Great Plains, *Great Plains Research (forthcoming)*
5. Bangsund, Dean A., and F. Larry Leistritz. 2008. Economics and Policy of Carbon Sequestration in Agricultural Soils, *Management of Environmental Quality* 19 (1): 85-99.
6. Bangsund, Dean A., and F. Larry Leistritz. 2008. Producer Responses to Carbon Sequestration Incentives in the Northern Great Plains. *Great Plains Research* 18 (2): 165-176.
7. Bowker, J.M., S.H. Lim, H.K. Cordell, G.T. Green, S. Rideout-Hanzak, C.Y. Johnson. 2008. "Wildland Fire, Risk, and Recovery: Results of a National Survey with Regional and Racial Perspectives." *Journal of Forestry* 106(5): 268-276.
8. Bryan Lohmar, W. Wilson, and Y. Bu. 2008. "Wheat Marketing Reform and Quality Enhancement Policies in China." *Economic Research Service, Agricultural Information Bulletin (forthcoming)*.
9. Chris Enyinda, Charles Briggs, Won Koo, The role of Competitive Intelligence Leverage in Supply Chain Risk Management Strategy, *Global Review of Business and Economic Research (forthcoming on March 2009)*
10. Eric DeVuyst, William W Wilson, and Bruce Dahl. "Grain Shipments on the Mississippi River: Longer-Term Forecasting and Risks." to the *Logistics and Transportation Review*, Accepted Oct 22, Transportation Research Part E. Reference TRE 446.
11. Hearne, R. and S. Tuscherer. 2008.. " Stated Preferences for Standing Rock Sioux Indian Reservation Ecotourism Alternatives" *Great Plains Research*. 18:131-142.
12. Hodur, Nancy M., F. Larry Leistritz, and Kara L. Wolfe. 2008. Developing the Nature-based Tourism Sector in Southwestern North Dakota, *Great Plains Research* 18 (Spring): 81-92.
13. Hodur, N., K.M. Tweeten, and F. L. Leistritz. 2008. "Shopping Patterns and Preferences of Underwood, ND, Area Residents." Dept. Agr. Business and Applied Econ. And Extension Center for Community Vitality. AAE 08001, North Dakota State University
14. Jin, Hyun and Dragan Miljkovic: "Competitive Structure of U.S. Grain Exporters in the World Market: A Dynamic Panel Approach," *Journal of International Economic Studies* (2008), 12(1): 33-62.
15. Landblom, D.G., C.J. Wachenheim, and T.A. Petry. 2008. Using A Yeast Preparation and Fibrolytic Enzyme As Replacements For Growth Hormone And Antibiotic In Natural Beef Production. *Western Section, American Society of Animal Science*, Volume 59.
16. Lei Fan, William W. Wilson, and Denver Tolliver. "Optimization Model for Global Container Supply Chain: Imports to United States." *Transportation Research Forum, forthcoming (2009)*.

17. Leistriz, F. Larry, and Nancy M. Hodur. 2008. Biofuels: A Major Rural Economic Development Opportunity, *Biofuels, Bioproducts, and Biorefining* 2:501-504.
18. Lim, S.H., C.A.K. Lovell. 2008. "Short-run Total Cost Change and Productivity of U.S. Class I Railroads." *Journal of Transport Economics and Policy* 42(1): 155-188.
19. McKee, G.J. 2008. "The Financial Performance of North Dakota Agricultural Cooperatives." *Journal of Cooperatives*. 21:15-34.
20. McKee, G.J. and M. Boland. 2008. "Cass-Clay Creamery: A New Direction for an Old Brand." *Journal of Cooperatives* 21:1-14.
21. McKee, G.J., R.E. Goodhue, J.A. Chalfant, C.A. Carter, and F.G. Zalom. 2008. "Pesticide Resistance, Population Dynamics, and Invasive Species Management," Cooperator Report to United States Department of Agriculture-Economic Research Service, CCR-43. July.
22. Miljkovic, Dragan and Rodney J. Paul: "Income Effects on the Trade Balance in the United States: Sectoral Analysis," *Journal of Agricultural and Applied Economics* (2008), 40(3): 967-982.
23. Miljkovic, Dragan, William Nganje, and Elvis Ndembe: "Offsetting Behavior: Consumers' Response to New Food Safety Policies," *Choices* (2008), 23(3).
24. Miljkovic, Dragan and Arbindra Rimal: "Political Instability and Development," *Journal of Socio-Economics* (2008), 37(6): 2454-2463.
25. Miljkovic, Dragan: "The Pitfalls of Transition: Crowding Out the 'National Virtues'," *Journal of Socio-Economics* (2008), 37(5): 2107-2113.
26. Miljkovic, Dragan, Hyun Jin, and Rodney Paul: "The Role of Productivity Growth and Farmers' Income Protection Policies in the Decline of Relative Farm Prices in the United States," *Journal of Policy Modeling* (2008), 30(5): 873-885.
27. Miljkovic, Dragan and William Nganje: "Economic Factors Affecting the Increase in Obesity in the United States: A Model of Myopic Addictive Behavior in Food Consumption," *Agricultural Economics* (2008), 38(3), 375-384.
28. Miljkovic, Dragan, William Nganje, and Helene de Chastenet: "Economic Factors Affecting the Increase in Obesity in the United States: The Differential Response to Price," *Food Policy* (2008), 33(1), 48-60.
29. Ndiva Mongoh M, Dyer N W, Stoltenow C L, Hearne R., Khaitsa M L. 2008. 'A Review of Management Practices for the Control of Anthrax in Animals: The 2005 anthrax Outbreak in North Dakota - Case Study.' *Zoonoses and Public Health*, 55:275-290.
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31. Ndiva Mongoh M., R. Hearne, N. Dyer, and M. Khaitsa. 2008. "The Financial Impact of West Nile virus Infection in horses in the North Dakota Horse Industry." *Tropical Animal Health and Production*. 40:69-76. DOI 10.1007/311250-007-9055-8.
32. Nganje, W., R. Hearne, C. Gustafson, and M. Orth. "Farmers' Preference for Alternative Crop and Health Insurance Subsidy" *Review of Agricultural Economics* 30:2(Summer 2008):333-51.
33. Nganje, W., R. Hearne, C. Gustafson, and M. Orth. 2008. "Farmers' Preferences for Alternative Crop and Health Insurance Subsidies." *Review of Agricultural Economics*. 30( 2) 311-332.
34. Nowatzki, John, Greg Endres, Jodi-DeJong-Hughes and Dwight Aakre. Strip Till For Field Crop Production. North Dakota State University Extension Service Circular AE-1370, July 2008.
35. Ransom, Joel, Dwight Aakre, Dave Franzen, Hans Kandel, Janet Knodel, Gregory Lardy, John Nowatzki, Kevin Sedivec, and Richard Zollinger; Bringing Land in the Conservation Reserve Program Back Into Crop Production or Grazing; North Dakota Extension Service Circular A-1364; June 2008.
36. Rathge, R.W. Forthcoming. 2008. "Future Population Shifts in the Great Plains and Their Implications" *Great Plains Sociologist* 19:109-126.

37. Scott Huso and W. Wilson. "Impacts of a Genetically Modified Fusarium Resistant Trait on Conventional Fungicide Prices and Demand." *Journal of International Agricultural Trade and Development*, Accepted March 24, 2008. *JIATD* 4(2), Fall 2008 159-176.
38. Shaik, Saleem, Keith Coble, Thomas O. Knight, Alan E. Baquet, and George F. Patrick, "Crop Revenue and Yield Insurance Demand: A Subjective Probability Approach" *Journal of Agricultural and Applied Economics*. 40 (3) pp 757-766.
39. Shaik, Saleem, Keith Coble, Darren Hudson, Terry Hanson, Corey Miller, and Stephen H. Sempier (2008) "Willingness to Pay for a Potential Trout Aquaculture" *Agricultural and Resource Economics Review*. 37(1) pp 41-50., also presented at the Crop Insurance and Risk Management Workshop, Rehoboth, Delaware, June 12-13, 2007.
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42. Tweeten, K.T., F.L. Leistritz, and N. Hodur. 2008 "Growing Rural Tourism Opportunities." *Journal of Extension* 46(2):2FEA2
43. Wilson, DeVuyst, Taylor, Koo, and Dahl, Implications of Biotech Traits with segregation Costs and Market Segments: the Case of Roundup Ready Wheat, *European Review of Agricultural Economics*, vol. 35, no. 1 (2008): 51-73.
44. Wilson, Koo, Dahl, and Taylor. Impacts of Ethanol Expansion on Cropping Patterns and Grain Flows, *Review of Agricultural Economics*, vol. 30, no. 4(2008):642-663.
45. W. Wilson, Cole Gustafson, and B. Dahl. "Crop Insurance in Malting Barley: A Stochastic Dominance Analysis." *Agricultural Finance Review*, May 28, 2008. (2008-0062) Accepted Sept 25, 2008.
46. W. Wilson and Scott Huso. 2008. "Trait Stacking, Licensing, and Seed Firm Acquisitions in GM Grains: A Strategic Analysis." *Journal of Agricultural & Resource Economics*, Vol. 33, No. 3 (December 2008) pp. 382-401.
47. W. Wilson, X. Henry and B. Dahl. 2008. "Costs and Risks of Conforming to EU Traceability Requirements; The Case of Hard Red Spring Wheat." *Agribusiness: An International Journal*, Vol. 24, Issue No. 1, Winter 2008: 85-102.
48. William W. Wilson. 2009. "Grain Contracting Strategies to Induce Delivery and Performance in Volatile Markets." *JAAE* forthcoming 2009.
49. William W. Wilson, and B. Dahl. "Protein Demand in Hard Wheats." Submitted to the *Australian Journal of Agricultural and Resource Economics*, submitted Nov 13, 2007; accepted July 23, 2008. 53: pp. 285-303.
50. William Wilson and B. Dahl. 2008. "Procurement Strategies to Improve Quality Consistency in Wheat Shipments." *Journal of Agriculture and Resource Economics*, 33(1): (April 2008) pp. 69-86.
51. William W. Wilson, Eric A. DeVuyst, Richard D. Taylor, Won W. Koo, and Bruce L. Dahl. "Welfare Implications of Biotech Traits with Segregation Costs and Market Segments: The Case of Roundup Ready® Wheat (RRW)." *European Review of Agricultural Economics*, May 1, 2006. Accepted Feb 6, 2008. Vo. 35(1) 2008: 51-73.
52. William Wilson, Won W. Koo, Richard D. Taylor, and Bruce L. Dahl. 2008. "Impacts of Ethanol Expansion on Cropping patterns and Grain Flows." *Review of Agricultural Economics*, 30(4): 642-663 Winter 2008.
53. William W Wilson and Doug Benson. Analysis of Container Flows: World Trade, US Waterborne Commerce and Rail Shipments in North American Markets. UGPTI Department Publication No. 203, Jan 2009.
54. Wilson, W., C. Gustafson, and B. Dahl. "Production Risk and Crop Insurance in Malt Barley: A

- Stochastic Dominance Analysis” *Review of Agricultural Economics*, forthcoming.
55. Zhuang and Koo. Implications of U.S. Free Trade Agreement with South Korea, *Journal of Economic Development*, Vol.33, No.1 (2008): 27 – 44.
  56. Zhuang, Renan, Won W. Koo, and Jeremy Mattson. The Growing U.S. Trade Deficit in Consumer-Oriented Agricultural Products, *Journal of Agricultural and Applied Economics*, vol. 40, No. 5 (2008): 953-965.
  57. Zhuang, Renan and Won Koo. The Role of the Chinese Agricultural and Industrial Sectors in its economic growth: are They Twin Brothers? *China: An International Journal*, Vol. 6, No. 2(2008):299-315.

### **JOURNAL PROCEEDINGS (6 Total)**

1. Allen, Albert J., Albert E. Myles, Saleem Shaik, and Osei Yeboah, “An Analysis of Trends in Import Refusals in the United States,” *Proceedings Issue, Journal of Food Distribution Research*, Volume XXXIX, Number 1, March 2008, Pages 5-10.
2. Costs and Risks of Conforming To EU Traceability Requirements: The Case Of Hard Red Spring Wheat, in French publication Eurofins International Seminar, *Analytical Expertise for Seed, Feed and Food Safety*, Paris, Feb 21, 2008.
3. Myles, Albert, Albert Allen, and Saleem Shaik, “Quantifying Community and Location Factors,” *Proceedings of the 64th Annual Professional Agricultural Workers Conference*, December 3-5, 2006, Published in 2008 by Tuskegee University, Tuskegee, Alabama 36088, Edited by Nii O. Tackie, Ntam Baharanyi, Robert Zabawa, and Walter Hill, Pages 10-23.
4. Myles, Albert, Albert Allen, and Saleem Shaik, “Measuring County Economic Growth,” *Proceedings of the 64th Annual Professional Agricultural Workers Conference*, December 3-5, 2006, Published in 2008 by Tuskegee University, Tuskegee, Alabama 36088, Edited by Nii O. Tackie, Ntam Baharanyi, Robert Zabawa, and Walter Hill, Pages 34-41.
5. Shaik, Saleem, Albert J. Allen, Albert E. Myles, and Osei-Agyeman Yeboah, “Importance of Financial Variables on Efficiency of Class I Railroads in the United States,” Abstract, *Journal of Agricultural and Applied Economics*, Volume 40, Number 2, August 2008, Page 731.
6. Yeboah, Osei-Agyeman, Saleem Shaik, Shawn Wozniak, and Albert J. Allen, “Increased Exports Under Trade Liberalization: A Gravity Model Approach,” Abstract, *Journal of Agricultural and Applied Economics*, Volume 40, Number 2, August 2008, Page 721.

### **BOOK CHAPTERS (5 Total)**

1. Gustafson, C. “Financing Growth of Cellulosic Ethanol” Transition to a Bioeconomy: Environmental and Rural Development Impacts, Farm Foundation, St. Louis, MO Oct 15-16, 2008. Forthcoming
2. Hodur, Nancy M., and F. Larry Leistritz. 2008. Estimating the Economic Impact of Event Tourism: A Review of Issues and Methods, pp. 63-79 in *Developing a Successful Infrastructure for Convention and Event Tourism*, Robert R. Nelson, ed. New York: The Haworth Press.
3. Leistritz, F. Larry. 2008. Impact Assessment, pp. 501-504 in *Encyclopedia of Rural America*. Millerton, NY: Grey House Publishing.
4. Rathge, R.W. 2008. “Rural Demography.” In Gary Goreham, ed. *Encyclopedia of Rural America: The Land and People*. Millerton, NY: Grey House Publishing, pp. 835-840.

### **BOOKS EDITED (2 Total)**

1. Miljkovic, Dragan (Ed.): "Perspectives on International Agricultural Trade and Development," Nova Science Publishers, Inc., New York, 2008 (114 pp.).
2. Miljkovic, Dragan (Ed.): "International Agricultural Trade and Development," Nova Science Publishers, Inc., New York, 2008 (174 pp.).

### **OTHER (11 Total)**

1. Coble, K.H., S. Shaik, J. Corey Miller, B.J. Barnett, T. Hanson, "Actuarial Analysis: Development of Aquaculture Premium Rates" Report submitted to USDA Risk Management Agency July 8, 2008.
2. Erickson, K., R. Danielson, and R. Rathge. 2008. "Community Alcohol Readiness Study." North Dakota State Data Center, North Dakota State University.
3. Featured: Fast Lane: The Panama Canal is expanding and so are trade opportunities, in *The Furrow*, November 2008.
4. Featured: Turmoil in Durum Wheat Markets, *World Grain*, June 2008, pp. 32-33.
5. Gustafson, C. "How the Wall Street Meltdown Affects Crop Insurance" *Crop Insurance Today*, National Crop Insurance Today, (41)4, November 2008, p. 4-7.
6. Gustafson, C. "Where Will Future Acres Come From?" *Crop Insurance Today*, National Crop Insurance Today, (41)2, May 2008, p. 12-14.
7. Gustafson, C. "Risks Facing the Ethanol Industry?" *Crop Insurance Today*, National Crop Insurance Today, (40)4, November 2007, p. 4-7. (not included last year)
8. Lim, S.H. 2008. "Modeling of Public Knowledge, Attitudes, and Values related to Wild fire, Fire Risk, and Fire Recovery in the Wildland Urban Interface and the Southern United States." USDA Forest Service (Grant Ref #: SRS 07-CA-11330144-057).
9. Olson, K. and R. Rathge. 2008. "2008 Kids Count Factbook." North Dakota Kids Count, North Dakota State University.
10. Rathge, R.W., K. Olson, and R. Danielson. 2008. "Using the American Community Survey (ACS) for Rural or Small Area Research & Policy." *Research & Policy Brief Series Issue 24*, Community and Rural Development Institute, Cornell University, December.
11. "Spatial Competition and Ethanol Plant Location Decisions." 2008. AAEA Selected Paper at the AAEA & ACCI Joint Annual Meeting in Orlando, Florida, July 27-July 29.

### **DEPARTMENTAL AND EXTENSION REPORTS (37 Total)**

1. Aakre, Dwight. What is the Value of a Standing Corn Crop for Silage? North Dakota State University Extension Service Circular EC-1343, September 2008.
2. Aakre, Dwight. Projected Budgets for Irrigated Crops, Eastern North Dakota – January 2008. Agribusiness and Applied Economics Farm Management Planning Guide (Revised). North Dakota State University, January 2008.
3. Aakre, Dwight. Projected Budgets for Irrigated Crops, Western North Dakota – January 2008. Agribusiness and Applied Economics Farm Management Planning Guide (Revised). North Dakota State University, January 2008.
4. Aakre, Dwight. Projected Budgets for Irrigated Crops, Central North Dakota – January 2008. Agribusiness and Applied Economics Farm Management Planning Guide (Revised). North Dakota State University, January 2008.
5. Baek, Jungho, Yong Sung Cho, and Won W. Koo. The Environmental Consequences of Globalization: A Country-Specific Time Series Analysis, Agribusiness & Applied Economics Report No. 631, Department of Agribusiness & Applied Economics, NDSU, June 2008.
6. Koo, W.W., R.D. Taylor, and A.L. Swenson. 2008. "2008 North Dakota Agricultural Outlook:

- Representative Farms 2008-2017.” Department of Agribusiness and Applied Economics. Report No. 634, North Dakota State University.
7. Koo, Won W. and Richard D. Taylor. Changes in Agricultural Input Costs and Their Impact on Net Farm Income, Agribusiness & Applied Economics Report No. 637, Department of Agribusiness & Applied Economics, NDSU, October 2008.
  8. Koo, Won W. and Richard D. Taylor. 2008 Outlook of the U.S. and World Sugar Markets, 2007-2017, Agribusiness & Applied Economics Report No. 630, Department of Agribusiness & Applied Economics, NDSU, May 2008.
  9. Koo, Won W. and Richard D. Taylor. 2008 Outlook of the U.S. and World Wheat Industries, 2007-2017, Agribusiness & Applied Economics Report No. 628, Department of Agribusiness & Applied Economics, NDSU, May 2008.
  10. Koo, Won W. and Richard D. Taylor. An Economic Analysis of Corn-based Ethanol Production, Agribusiness & Applied Economics Report No. 626, Department of Agribusiness & Applied Economics, NDSU, April 2008.
  11. Lindblom, D.G., C.J. Wachenheim, and T.A. Petry. 2008. Using A Yeast Preparation and Fibrolytic Enzyme in Natural Beef Production. Dickinson REC Center Annual Report – Beef Section.
  12. Petry, T. A., R. Haugen, D. Aakre, and G.Flaskerud. 2008. Plotting a Course 2008, Short-term and Long-term Agricultural Planning Prices for North Dakota 2008. EC-1090. NDSU Extension Service, NDSU, Fargo, ND 58105.
  13. Petry, T.A. 2008. Will 2007 Price Volatility Continue in 2008? The Ranch Hand, Volume 15, Number 1, NDSU Extension Service, Fargo, ND.
  14. Petry, T.A. 2008. Dry Weather Stalls Cattle Herd Buildup. The Ranch Hand, Volume 15, Number 2, NDSU Extension Service, Fargo, ND.
  15. Petry, T.A. 2008. COOL Recordkeeping Now Necessary Part of Livestock Marketing. The Ranch Hand, Volume 15, Number 10, NDSU Extension Service, Fargo, ND.
  16. Petry, T.A. 2008. Cattle, Corn, and the Credit Crunch. The Ranch Hand, Volume 15, Number 12, NDSU Extension Service, Fargo, N.D.
  17. Petry, T.A. 2008. Marketing and Price Risk Management. 2008 Dairy Cow College Proceedings. NDSU Extension Service, Fargo, ND.
  18. Petry, T.A. 2008. Lamb Livestock Risk Protection Insurance. Sheep Research Report No. 49, Hettinger Research Extension Center, North Dakota State University.
  19. Swenson, A.L. 2008. “Financial Characteristics of North Dakota Farms 2006-2007.” Department of Agribusiness and Applied Economics. Report No. 633, North Dakota State University.
  20. Swenson, A.L., and R. Haugen. 2008. “Projected 2009 Organic Crop Budgets South Central North Dakota,” Farm Management Planning Guide, NDSU Extension Service, Fargo, ND.
  21. Swenson, A.L. and R. Haugen. 2008. “Projected 2009 Crop Budgets Northwest North Dakota,” Farm Management Planning Guide, NDSU Extension Service, Fargo, ND.
  22. Swenson, A.L. and R. Haugen. 2008. “Projected 2009 Crop Budgets North Central North Dakota,” Farm Management Planning Guide, NDSU Extension Service, Fargo, ND.
  23. Swenson, A.L. and R. Haugen. 2008. “Projected 2009 Crop Budgets Northeast North Dakota,” Farm Management Planning Guide, NDSU Extension Service, Fargo, ND.
  24. Swenson, A.L. and R. Haugen. 2008. “Projected 2009 Crop Budgets North Valley North Dakota,” Farm Management Planning Guide, NDSU Extension Service, Fargo, ND.
  25. Swenson, A.L. and R. Haugen. 2008. “Projected 2009 Crop Budgets East Central North Dakota,” Farm Management Planning Guide, NDSU Extension Service, Fargo, ND.
  26. Swenson, A.L. and R. Haugen. 2008. “Projected 2009 Crop Budgets Southwest North Dakota,” Farm Management Planning Guide, NDSU Extension Service, Fargo, ND.
  27. Swenson, A.L. and R. Haugen. 2008. “Projected 2009 Crop Budgets South Central North Dakota,” Farm Management Planning Guide, NDSU Extension Service, Fargo, ND.
  28. Swenson, A.L. and R. Haugen. 2008. “Projected 2009 Crop Budgets Southeast North

- Dakota,” Farm Management Planning Guide, NDSU Extension Service, Fargo, ND.
29. Swenson, A.L. and R. Haugen. 2008. “Projected 2009 Crop Budgets South Valley North Dakota,” Farm Management Planning Guide, NDSU Extension Service, Fargo, ND.
  30. Taylor, Richard D. and Won W. Koo. Impact of the SURE Program on North Dakota Farms, Agribusiness & Applied Economics Report No. 638, Department of Agribusiness & Applied Economics, NDSU, December 2008.
  31. Torpen D. and R. Hearne. 2008. “Stakeholder Preferences for Water Management Alternatives in the Red River Basin.” Agribusiness and Applied Economics Report NO. 639. Department of Agribusiness and Applied Economics. North Dakota State University. April, 2008.
  32. Tweeten, K. Update “Business Reports, Forms and Licenses Required in North Dakota” – extension publication, author – web based only for cost savings.
  33. Wilson, W. and B. Dahl, *Container Shipping: Rail and Ocean Shipping Rates*
  34. Wilson, W. and B. Dahl, *Review of Previous Studies on Container Shipping: Infrastructure, Projections and Constraints*
  35. Wilson, W. and C. Sarmiento, *Container Demand In North American Markets: A Spatial Autocorrelation Analysis*
  36. Wilson, W. and D. Benson, *Analysis of Container Flows: World Trade, US Waterborne Commerce and Rail Shipments in North American Markets*
  37. Wilson, W. and E. DeVuyst, *Optimization Models of Container Shipments in North America: Spatial Competition and Projections (Methodology)*

#### 4. Presentations

##### *Presentations by Research/Teaching Faculty (83 Total)*

1. Allen, Albert J., Saleem Shaik, Albert E. Myles, and Osei-Agyeman Yeboah, “The Impact of September 11, 2001 Terrorists Attack and Hurricane Katrina on the Financial Performance of Class 1 Railroads in the United States,” Paper presented at the Southwestern Economics Association (SWEA) Annual Meeting, Las Vegas, Nevada, March 12-15, 2008
2. Baek, Jung-ho and Won W. Koo, A dynamic Approach to the FDI-Environment Nexus: The Case of China and India, American Agricultural Economics Association annual meeting, July 28-29, 2008.
3. Baek, Jung-ho and Won W. Koo, The Environmental Consequences of Globalization: A Country-Specific Time-series Analysis, American Agricultural Economics Association annual meeting, July 28-29, 2008.
4. Carter, Rachel, Alan Barfield, and Saleem Shaik. “Factors Affecting the Distribution of Community Reinvestment Act (CRA) Loans Across Household Income Groups: The Case of Delta and Northern Great Plain Region.” Selected paper presented at the 2008 Annual Meeting of the SAEA, Dallas, Texas February 2-5, 2008.
5. Chi, J., W.W. Koo, S.H. Lim. “Carriers’ Price Dispersion in the U.S. Airline Industry.” Abstract and Paper accepted for Presentation at the 50<sup>th</sup> Annual Transportation Research Forum in Portland, Oregon, March 16 – 18, 2009.
6. Jane A Coleman, Sumadhur Sakhya and Saleem Shaik. “Impact of Crop Insurance on Cropland Values in North Dakota.” Selected paper presented at the 2008 Annual Meeting of the WAEA, Big Sky, Montana June 25-27, 2008.
7. Enyinda, Briggs, and Koo, The Role of Competitive Intelligence Leverage in Supply Chain Risk Management Strategy, Global Academy of Business and Economics Research, September 19, 2008.
8. Gustafson, Cole. “Efficacy of Online Classes” American Economics Association annual Meeting, Jan. 5, 2008

9. Gustafson, Cole. "Fractionating Dry Peas for Ethanol" NC-1014, Kansas City, MO, Sept. 25-26, 2008
10. Gustafson, C. and A.L.Swenson, "Farm Finance: A Pulse from the Prairie." Paper presented by Cole Gustafson at USDA Outlook Meeting, February 21, 2008, Arlington, VA.
11. Haugen, Ron. Annie's Project Cass County Extension office. Covered crop budgets, cost and returns for wheat, soybeans and corn, cash versus flexible rents and Fair Rent software. Rick Morgan, Moorhead Farm Business Management instructor, also presented. Fargo, ND. February 14, 2008.
12. Haugen, Ron. World agriculture situation. Rolette County Crop Improvement Association. Rolette, ND. March 11, 2008.
13. Haugen, Ron, Ron Smithberg. Casselton farm business management class. Risk management by combining insurance and market tools and cash versus flexible rents. Casselton, ND. March 26, 2008.
14. Haugen, Ron. Crop Compare software to evaluate flax production for 2008. Flax Institute of the United States. Attendees from the United States and Canada. Fargo, ND. March 28, 2008.
15. Haugen, Ron. Wind turbine lease issues. NDSU extension agricultural lenders conference. Grand Forks, ND, November 3, 2008, Minot, ND, November 4, 2008, Bismarck, ND, November 5, 2008, Fargo, ND. November 6, 2008.
16. Haugen, Ron; Gustafson, Cole; Wefald, Susan; Peterson, Carl. Wind turbine lease information. Bismarck State College. Meeting was conducted by Elroy Haadam (Burleigh county agent), Jackie Buckley (Morton county agent) and Mark Holkup (local farm business management instructor Bismarck, ND. December 2, 2008.
17. Hearne, Robert. "Characteristics of Active Water Management Organizations in the Red River Basin." (with Craig Kritsky). Presented at the Environmental and Conservation Sciences Seminar. North Dakota State University. November 2008.
18. Hearne, Robert. "Characteristics of Active Water Management Organizations in the Red River Basin." (with Craig Kritsky). Presented at the Western Agricultural Economics Association Annual Meeting. Big Sky, Mt. June 2008.
19. Hearne, Robert. "Lessons for Improved Local Water Management." Presented at the North Dakota State University Extension Service Spring Extension Conference. Bismarck, ND. March 2008
20. Hearne, Robert. "Stakeholder Preferences for Water Management Alternatives in the Red River Basin" (with D. Torpen). Paper Presented at the W-2133 Annual Meeting Kona Hi., February 2008.
21. Herren, Robert. "Influence of Council of Economic Advisers: Ascent and Descent" presented at 2008 meeting of Missouri Valley Economic Association
22. Koo and Jungho Baek, What cause the recent surge in food prices? S-1043 Multi-state research committee meeting, the World Trade Center of New Orleans, Nov. 17-18, 2008.
23. Koo , Economics of corn-based and cellulose Ethanol Production, Conference entitled "Northern Plains Biomass Economy: What Makes Sense?" Ramada Plaza Suite and Convention Center, Fargo, ND, September 29, 2008
24. Koo, Won. Economics of Bio-energy Production: Opportunities and Challenges, Department of Food and Resource Economics, Korea University, June 27, 2008.
25. Koo, Won. The 2008 farm bill and Implications on Bio-fuel production, Korea Rural Economics Institute, Seoul, Korea, July 7, 2008.
26. Koo, Won. Forces reshaping the world agriculture and implications for ND agriculture, Annual meeting of West Central Inc. Fargo (Double Wood Inn), ND, March 5, 2008.
27. Ethanol Impacts on the U.S. Corn Industry: any other Alternative, Department of Agricultural Economics, Louisiana State University, March 10, 2008.

28. Helmers, Glenn, Saleem Shaik and Joseph Atwood. "Impact of the Section 1031 Like-Kind Tax Provision on Agricultural Land Values." Selected paper presented at the 2008 Annual Meeting of the WAEA, Big Sky, Montana June 25-27, 2008.
29. Lambert, David K. "The Expected Utility of Genetic Information Using Conditional Probability Distributions." SCC-076 Regional Meeting. Gulf Shores, AL. March 2008.
30. Lambert, David K. "The Expected Utility of Genetic Information Using Conditional Probability Distributions." SCC-076 Regional Meeting. Gulf Shores, AL. March 2008.
31. Lambert, David K. "Trade Creation and Diversion Effects of Preferential Trade Associations on Agricultural and Food Trade." Selected paper. Western Agricultural Economics Association Annual Meeting, Big Sky, MT. June 2008.
32. Lambert, David K. "Global Issues, Local Action." Invited presentation. University of Nebraska, Lincoln. August 7, 2008.
33. Lambert, David K. Editor's report prepared and presented at WAEA meetings in Big Sky, MT. June 2008.
34. Leistriz, F. Larry. "Production and Marketing Practices of Northern Plains Cow-calf Producers," HREC Beef Research Review, Hettinger Research-Extension Center, January 10, 2008.
35. Leistriz, F. Larry. "Biorefineries: Fuels, Chemicals, and Materials from Biomass," Marketplace, Grands Forks, January 16, 2008.
36. Leistriz, F. Larry. "Attributes and Economic Impacts of Visitors to North Dakota Heritage and Cultural Tourism Sites," Marketplace, Grands Forks, January 16, 2008.
37. Leistriz, F. Larry. "Developing a Biomaterials Industry in North Dakota," Briefing for Congressional Staff (Galen Fountain and Maynard Friesz), Fargo, March 24, 2008.
38. Leistriz, F. Larry. "Shopping Patterns and Preferences of Underwood Area Residents," presented to Underwood community meeting, April 3, 2008.
39. Leistriz, F. Larry. "Developing a Biomaterials Industry in North Dakota," presented to North Dakota Renewable Energy Council, Bismarck, April 8, 2008.
40. Leistriz, F. Larry. "Outlook for North Dakota Agriculture and State Economy, 2008-2009," presented to ND Legislative Council, Budget and Finance Committee, Bismarck, April 16, 2008.
41. Leistriz, F. Larry. "Outlook for North Dakota Agriculture and State Economy, 2008-2009," presented to Departmental seminar, Fargo, May 9, 2008.
42. Leistriz, F. Larry. "Rural Economic Development in North Dakota," presented to Multi-State Extension Community Development meeting, Rapid City, SD, May 13, 2008.
43. Leistriz, F. Larry. "New Opportunities for Economic Use of Coteau Resources: Renewable Energy and Nature Tourism," presented at Central Grasslands Research Extension Center Field Day, June 26, 2008.
44. Leistriz, F. Larry. "Agriculture in the North Dakota Economy," presented at Cass County Farm Bureau Legislative meeting, Harwood, July 17, 2008.
45. Leistriz, F. Larry. "Corn vs. Cellulosic Ethanol: A Comparison of Rural Development Implications," presented at Biomass '08 Technical Workshop, Grand Forks, July 16, 2008.
46. Leistriz, F. Larry. "Corn vs. Cellulosic Ethanol: A Comparison of Rural Development Implications," presented at Biomass '08 Technical Workshop, Grand Forks, July 16, 2008.
47. Leistriz, F. Larry. "Developing a Biomaterials Industry in North Dakota," presented at MBI International Symposium on Developing Biobased Fuels, Chemicals, and Materials: A Collaboration of Land Grant Universities, Government, and Industry, Lansing, August 25, 2008.
48. Leistriz, F. Larry. "Agriculture in the North Dakota Economy," presented to State Board of Agriculture Research and Education (SBARE), Fargo, September 11, 2008.
49. Leistriz, F. Larry. "Supply Price for Switchgrass in South-central North Dakota," presented at Growing the Bioeconomy Conference, Ames, IA, September 9, 2008.
50. Leistriz, F. Larry. "Socioeconomic of Impacts Corn-based vs. Lignocellulosic Ethanol

- Production,” presented at Growing the Bioeconomy Conference, Ames, IA, September 9, 2008.
51. Leistritz, F. Larry. “EISA Mandates and the Emerging Cellulosic Biofuels Industry,” presented at Northern Plains Biomass Economy Conference, Fargo, September 29, 2008.
  52. Leistritz, F. Larry. “Economic Development Implications of a Biomaterials Industry in North Dakota, presented at Northern Plains Biomass Economy Conference, Fargo, September 29, 2008.
  53. Leistritz, F. Larry. “Local and Regional Economic Impacts of Biofuel Development,” presented at Farm Foundation Transition to the Bioeconomy 3: Environmental and Rural Development Impacts, St. Louis, October 15-16, 2008.
  54. Lim, S.H., S. Condon. “An Economic Analysis of Productivity and Efficiency Changes of U.S. General Freight Trucking, 1999-2003.” The 45<sup>th</sup> Missouri Valley Economic Association, St. Louis, MO, October 23– 25, 2008.
  55. McKee, G. Workshop presentation to North Dakota Farmers Union “Steppin’ Out” Conference, teaching leadership skills in cooperative to women. Bismarck, ND, 1/26/08.
  56. McKee, G. Workshop presentation to Marketplace for Entrepreneurs, teaching about how to start cooperatives to general public. Grand Forks, ND, 1/16/08
  57. McKee, G. Presentation and office visits with Timothy Richards (President and CEO) and staff of Mid-America Credit Union Association, 2/26/08
  58. McKee, G. Workshop presentation about financial status of North Dakota agricultural cooperatives to North Dakota Cooperative Managers Association, Bismarck, ND (3/10/08). A similar presentation was made to employees of Hennen & Associates (financial auditing company for cooperative businesses) on 5/7/08 in Fargo.
  59. McKee, G. Participated with employees of North Dakota Association of Rural Electric Cooperatives’ Rural Development Services Office in developing and presenting an internal review of the operations of Dakota Lamb Growers Cooperative
  60. McKee, G. Presentation and office visit with Marietta Wahl (General Manager) of Northland Educators Federal Credit Union, 8/19/08
  61. McKee, G. Presentation to board of Cass County Electric Cooperative board of directors and management, 9/30/08, Fargo, ND
  62. Miljkovic, Dragan and William W. Wilson: “The Impact of Emergence of Chinese International Corn Markets on Chinese and U.S. Corn Prices,” *IATRC 2008 Symposium*, June 30-July 1, 2008, Seoul, South Korea.
  63. Miljkovic, Dragan. “The Pitfalls of Transition to Markets.” University of Novi Sad, Serbia, August 2008.
  64. Miljkovic, Dragan (with Hyun Jin): “Test for Multiple Structural Changes in Relative Farm Prices,” National University, Seoul, July 2008.
  65. Myles, Albert E., Albert J. Allen, and Saleem Shaik. “Economic and Fiscal Impacts of Repealing the Mississippi Food Tax.” Selected paper presented at the 2008 Annual Meeting of the SAEA, Dallas, Texas February 2-5, 2008.
  66. Myles, Albert E., Albert J. Allen, and Saleem Shaik, “The Economic Impact of A Lignite Mining Plant in Mississippi,” Paper presented at the International Academy of Business and Public Administration (IABPAD) Conference to be held in Orlando, Florida, January 3-6, 2008
  67. Ndembe, Elvis, William Nganje, and Dragan Miljkovic: “Offsetting Behavior and the Benefits of Food Safety Policies in Vegetable Preparation and and Consumption,” WERA-72 Annual Meetings, June 18-19, 2008, St. Clara, CA.
  68. Saleem Shaik and Sanjoy Bhattacharjee. “Multilevel Modeling of Crop Yields to Test for Normality.” paper presented at the SCC-76 annual meeting on the economics and management of risk in agricultural and natural resources was held at Orange Beach, AL March 13-15, 2008.=
  69. Saleem Shaik and Ashok Mishra. “Does Crop Insurance and Off farm Income Affect Farmland Values?” paper presented at the SCC-76 annual meeting on the economics and management

- of risk in agricultural and natural resources was held at Orange Beach, AL March 13-15, 2008.
70. Saleem Shaik, Albert J. Allen, Albert E. Myles, and Osei-Agyeman Yeboah. "Importance of Financial Variables on Efficiency Measures of Class I Railroads in the United States." Selected paper presented at the 2008 Annual Meeting of the SAEA, Dallas, Texas February 2-5, 2008.
  71. Tu, Wen, Albert J. Allen, Albert E. Myles, and Saleem Shaik, "An Inter-Industry Economic Analysis of Repealing General Aviation Maintenance Labor and Parts Tax in Mississippi" Paper presented at the 35<sup>th</sup> Annual Meeting of the Academy of Economics and Finance held in Nashville, TN - February 13-16, 2008.
  72. Wachenheim, C.J. Building case studies. 2008 AgrowKnowledge Conference Pre-conference. Cedar Rapids, Iowa, May 27, 2008.
  73. Wachenheim, C.J. Case studies for use in teaching. 2008 AgrowKnowledge Conference. Cedar Rapids, Iowa, May 27-29, 2008.
  74. Wilson, William. Grain Contracting Strategies to Induce Delivery and Performance in Volatile Markets, to the SAEA Meetings, Atlanta February, 2009 Session Title: Volatile Markets and the Changing Face of the U.S. Grain Industry organized by Andrew McKenzie, University of Arkansas.
  75. Wilson, William. Longer Term Factors Impacting Agricultural Commodity Prices and Trade and Implications for Buyers to the Rice Congress of the Americas 2008, Porto Alegre, Brazil April 24, 2008.
  76. Wilson, William. National Academy of Sciences, GM Crops and Impacts on Spatial Distribution of Production, Feb 26, 2009. (NAS committee on the impact of biotechnology on farm economics and sustainability).
  77. Wilson, William. "Spatial Competition and Ethanol Plant Location Decisions", at the 2008 AAEA Selected Paper at the AAEA & ACCI Joint Annual Meeting in Orlando, Florida, July 27-July 29.
  78. Wilson, William. "The Impact of Emergence of Chinese International Corn Markets on Chinese and U.S. Corn Prices" contributed paper at the IATRC-KREI Seoul Symposium (June 30-July 1, 2008).
  79. Wilson, William. 2008 Northern Canola Growers Board Meeting. Presentation to the annual research meeting on COE research and results, Oct 29, 2008.
  80. Wilson, William. 2008 Northern Canola Growers Field Day Langdon Research Extension Center, July 10, NDSU Oilseed Center of Excellence, TBA.
  81. Wilson, William. AgBiotechnology and Oilseeds: NDSU-COE to Jolynne Tschetter, Manager Science and Technology Business Development, ND Dept of Commerce, March 24, 2008.
  82. Wilson, William. COE in Oilseeds: Summary and Outlook, to the R&D Showcase, sponsored by NDSU Research Park, April 16, 2008.
  83. Wilson, William. USDA Under Secretary for Research, Education and Economics, June 4, 2008.
  84. Yeboah, Osei-Agyeman, Saleem Shaik, Shawn Wozniak, and Albert J. Allen. "Increased Exports Under Trade Liberalization: A Gravity Model Approach." Selected paper presented at the 2008 Annual Meeting of the SAEA, Dallas, Texas February 2-5, 2008.

*Presentations by Extension Faculty (54 Total – Note multiple presentations)*

1. Aakre, Dwight. Presented an explanation of how the agricultural land valuation model works to the township officers and other county officials at the Grand Forks Township officers meeting.
2. Aakre, Dwight. Presented a session on the agricultural land valuation model as a part of Course 202 Agricultural Land Valuation put on by the State Tax Department for County and Township assessors and Directors of Equalization.

3. Aakre, Dwight. Discussed the competitiveness of spring wheat and what could be done to assure a continued supply in the future. This presentation was requested by the North Dakota Wheat Commission and presented to a group of Japanese wheat buyers.
4. Aakre, D. and Andy Swenson presented a half day program for new hires at Ag Country Farm Credit Services. This was intended to be an introduction to local agriculture for accountants and other employees of FCS that had little to no background in agriculture.
5. Gary Goreham Kathleen Tweeten, Courtney E. Taylor, and Brian Fier. "Community Capitals and Asset-based Community Development: An Evaluation of the Beginning Again North Dakota Program." Rural Sociological Society Annual Conference, July 30, 2008.
6. Petry, Tim. Cattle Outlook, Glen Ullin, Jan 3
7. Petry, Tim. Lamb Price Outlook, Tappen, Jan 9
8. Petry, Tim. Lamb-LRP, Page, Jan 21, Carrington, Feb 6, Page, Jan. 21, Chicago, IL, June 17, Tappen, Jan. 9
9. Petry, Tim. Cattle Outlook, Carrington, Jan 29, Carson, Jan 30, Dakota Feedout, Feb 14, Pierce County, Mar 4, Napoleon, Mar 13, Fargo, Apr 8, Thief River Falls, MN, May 20, Wishek, Sep 8, Sidney, MT, Dec 4, Dickinson, Dec 9; USDA and others, Jan 14;
10. Petry, Tim. Futures and Options, Carrington, Jan 29
11. Petry, Tim. Fed Cattle Outlook, Dakota Feeder Calf Feedout, Feb 7
12. Petry, Tim. Cow calf management and marketing, Belcourt, Feb 13
13. Petry, Tim. Cattle-LRP, Belcourt, Feb 13, Carrington, Jan 29, Carrington, Feb 14, Rugby, Mar 4, Extension Cattle Feedlot School, Dec 4
14. Petry, Tim. Futures and Options, Belcourt, Feb 13
15. Petry, Tim. Swine-LRP, Fargo, Feb 22
16. Petry, Tim. Lean Hog futures and options, NDSU, Feb 22
17. Petry, Tim. Corn Yield Increase in ND, Fargo, Feb 26
18. Petry, Tim. Cattle Marketing, Bismarck, Feb 27
19. Petry, Tim. Cattle and Corn Situation, Bismarck, Mar 31
20. Petry, Tim. JBS and packer concentration, Extension conference, Mar 31
21. Petry, Tim. Seasonal Price Patterns, AGEC 244, NDSU, Apr 8
22. Petry, Tim. Livestock Marketing, AGEC 244, NDSU, Apr 10; McClusky, Feb 18; Williston, Feb 18; Grand Forks, Feb 19; Langdon, Feb 19; Minot, Feb 19 am; Minot, Feb 19 pm; Bowbells, Feb 19; Watford City, Feb 19; Bismarck, Feb 20; Mandan, Feb 20; Dickinson, Feb 20; Hettinger, Feb 20; Fargo, Feb 21; Wahpeton, Feb 21; Oakes, Feb 21; Jamestown, Feb 21; Halliday, Feb 20; Wishek, Feb 18; Elgin, Feb 20;
23. Petry, Tim. Livestock tax implications during drought, Fargo, Apr 18; Bismarck, May 14
24. Petry, Tim. Applied Price Forecasting, AGEC 344, NDSU, Apr 22
25. Petry, Tim. ND Livestock Agriculture, LaMoure, May 8
26. Petry, Tim. Livestock Marketing in ND, Chicago, IL, June 16
27. Petry, Tim. Outlook for ND Crops and Livestock, Kansas City, MO, Aug 19
28. Petry, Tim. Cattle, Hog, Sheep, and Dairy Price Outlook, Ext In-Service, Washburn, Sep 4
29. Petry, Tim. Is COOL Cool? Washburn, Sep 4; Minot, Sep 26
30. Petry, Tim. Livestock Planning Prices, USDA-FSA, Fargo, Sep 17
31. Petry, Tim. Livestock Outlook and Mktg Strategies, Marketing Club Facilitator Conference, Sep 18
32. Petry, Tim. Impact of High Feed Costs on the US Livestock Sector, NASDA, Bismarck, Sep 22
33. Petry, Tim. Teaching Marketing to Annie's Participants, Fargo, Nov 3
34. Petry, Tim. Livestock Outlook, Ag Lenders Conference, Grand Forks, Nov 4, Minot, Nov 5, Bismarck, Nov 6, Fargo, Nov 7
35. Petry, Tim. Cattle Futures and Options, Sidney, MT, Dec 4
36. Petry, Tim. Long run Livestock Planning Prices, Fargo, Dec 1
37. Petry, Tim. Crops Marketing, McClusky, Feb 18; Williston, Feb 18; Wishek, Feb 18; Wishek, Feb 18; Grand Forks, Feb 19; Langdon, Feb 19; Minot, Feb 19 am; Minot, Feb 19 pm;

- Bowbells, Feb 19; Watford City, Feb 19; Bismarck, Feb 20; Mandan, Feb 20; Dickinson, Feb 20; Elgin, Feb 20; Halliday, Feb 20; Hettinger, Feb 20; Wahpeton, Feb 21; Oakes, Feb 21; Jamestown, Feb 21; Fargo, Feb 21;
38. Petry, Tim. Lamb Market Outlook, USDA-ERS and others, Mar 12
  39. Petry, Tim. Cattle Outlook, Fargo, Mar 26
  40. Petry, Tim. Lamb-LRP, LMIC and others, Mar 27
  41. Petry, Tim. Livestock Marketing during drought, many locations, Apr 11
  42. Petry, Tim. Tax implications of drought forced sales of livestock, many locations, Apr 25
  43. Petry, Tim. International Meat Trade issues, USDA-ERS and others, May 12
  44. Petry, Tim. Short term drought cattle marketing, Minot, May 19
  45. Petry, Tim. Northern Plains Weather and Corn, USDA-ERS and others, June 11
  46. Petry, Tim. COOL and Northern Plains Cattle, LMIC and others, Jul 14
  47. Petry, Tim. Feeder Cattle Outlook, USDA-ERS, Sep 15
  48. Petry, Tim. Cattle Outlook, Minot, Dec 22; USDA and others, Jan 14
  49. Petry, Tim; Swenson, Andrew and Aakre, Dwight. Presented a half day program for new hires at Ag Country Farm Credit Services. This was intended to be an introduction to local agriculture for accountants and other employees of FCS that had little to no background in agriculture.
  50. Petry, Tim. Lamb Price Outlook, Page, Jan 21
  51. Petry, Tim. Cattle-LPR, Carrington, Jan 29, Extension Cattle Feedlot School, Dec 4
  52. Petry, Tim. Lamb-LRP, Chicago, IL, June 17
  53. Kathleen Tweeten. "2009 Annual Conference Invitation." Galaxy ESP Regional Meeting, September 16, 2008
  54. Kathleen Tweeten. "2009 Annual Conference Invitation." Galaxy ESP Regional Meeting, September 16, 2008

## 5. Technology transfer.

Not applicable.

### C. Extension/Outreach Education

As demonstrated by the publications and presentations listed in previous sections, our Extension/outreach education program continues to emphasize farm management (e.g., crop and livestock marketing, crop insurance, federal government farm program, cost of production), economic and community development, renewable energy (a result of resources provided during a recent legislative session), land-use agreements for wind energy, income tax training for agricultural practitioners, and industry outlook for agricultural lenders.

### D. Special Initiatives

1. Cooperative programming/inter-institutional activities (e.g., NDUS, TCU, etc.): faculty members continue to work with other NDUS institutions through the Ag Articulation group, by offering distance delivered courses to other NDUS campuses (e.g., AGECE 374 and 375), and by working on joint research efforts (e.g., EERC on water management and bio-energy).
2. International activities;
  - Faculty members are involved in research and presentations that focused on international or global issues; examples include the Oilseed Center of Excellence, researching Chinese food consumers, exploring the opportunities and challenges of genetically modified wheat, and working with the North Dakota Trade Office to

develop relationships with Kazakhstan, Ukraine and other nations.

3. Interdisciplinary activities;
  - Faculty in the Department actively participates with several NDSU entities in research, academic programs and outreach education. These entities include the School of Natural Resource Sciences, Oilseeds Center of Excellence, School of Food Systems and Great Plains Institute for Food Safety (GPIFS), Bio-Energy and Product Innovation Center (BioEPIC) and the Upper Great Plains Transportation Institute (UGPTI).
4. Economic development efforts
  - Faculty provides significant leadership in economic development through the Center for Community Vitality, BioEPIC, and similar research and outreach efforts. Researchers work with numerous North Dakota communities as they explore development opportunities.
5. On-line courses and programming.
  - The department's advances in distance education has been driven by individual faculty; the department has not arrived at a consensus whether distance education can be effective and therefore has not devised a long-term strategy for pursuing distance education.
  - Barry Hall includes a facility (rooms 422/424) for faculty to develop digital education materials to complement course work and outreach educational programs. Hopefully access to the technology will make it easier for faculty and educators to enhance their educational programs.
  - Several staff members have expressed a willingness to learn how to assist faculty and educators develop digital educational materials. To begin this process, three staff members have been identified for professional development to learn about the technology and its uses. We intend to work with Ag Communication, ITS and DCE as we begin to use this technology. We also look forward to working with the College of Business and the Library in using this technology.
  - The department has ready access to video conferencing capability in Barry Hall.

## **E. Planning**

This section focuses on questions the Department needs to address as it moves forward.

Like any university, the foundation of the Department of Agribusiness and Applied Economics is its faculty. Our department reinforced its foundation by hiring four assistant professors in early 2009. Drs. Joleen Hadrich, Jeremy Jackson and David Roberts begin their employment at NDSU in August 2009. Ryan Larsen will arrive in March 2010 after completing his Ph.D. This brings the department to eight assistant professors; a somewhat unique opportunity to shape its future. In total, the department has eight full professors, four associate professors, eight assistant professors, three Extension educators, two instructors, and 13 (soft-funded) research/Extension scientists.

Having a common objective and functioning as a team also are essential to a successful department. Accordingly, the faculty is urging that we complete our process of developing a strategic vision for the department. I hope this planning process and its ongoing implementation will enhance the "team" within the department and minimize the sense that we are merely a collection of independent, individual efforts. An initial step will be to assure each faculty member has an opportunity – and an obligation -- to participate in the department's strategic planning. For example, all new faculty

members, as well as experienced members, will be urged to actively participate in developing the departmental vision.

### Preparing a Strategic Vision

The faculty urges that we **prepare a strategic vision** for the department. This section focuses on this agreed-upon need, but be certain that there is no agreement yet as to what the vision should be.

The department held numerous discussions in late 2008 and early 2009 that led to a draft strategic vision, but conversations suggest there is no consensus on the department direction or how that direction should be described. An apparent crucial, but unresolved point is the **scope or breadth of the department's vision**. For example, should the department specify a relatively narrow direction recognizing that we are not large enough to be "everything to everybody", or should the department envision a broader scope to accommodate the variety of state and regional issues that would benefit from economic analysis, as well as recognizing the breadth of professional interests and expertise of the faculty?

I propose allowing the name of the department – agribusiness and applied economics – to guide the development of a strategic vision, but in reverse order. Restated, strategically our department applies economic reasoning to analyze problems, and agribusiness is a major emphasis (but not the only emphasis) for our department.

**Applied economics** is using economic concepts to analyze problems and opportunities. Our department will pursue applied economics because there are problems and opportunities in the region which need economic analysis, and our faculty focuses more on application of economic concepts, than on researching economic theory.

**Agribusiness** is ...*this definition may pose some challenges for the faculty.*

Our department will pursue agribusiness because the region's major economic activity involves agriculture, but agriculture is not the only economic activity or issue that needs economic analysis.

Applied economics and agribusiness are consistent with the department vision and mission.

**Our vision:** *To enhance the economic vitality of North Dakota by providing scholarly economics research, teaching and outreach.*

**Our mission:** *To provide objective cutting-edge economic analysis to support informed decision making for the people of North Dakota and beyond, prepare and assist students and the people of North Dakota to become leaders in the global marketplace; and to provide high quality life-long education for students and audiences across the state and beyond.*

A question that arises in the discussions is whether there is a distinction between economists and agricultural economists, and does this distinction impact the strategic vision for the department? I hope that we are all economists even though we emphasize a variety of sub-disciplines in fulfilling our professional pursuits. Hopefully, any distinctions among us will be a foundation for strength, rather than a reason for not collaborating.

The strategic vision should not be limited to describing the department's areas of emphasis (e.g., applied economics, agribusiness, etc), but also should address what we do (e.g., research, teach, educate) and how we do it (e.g., collaboratively).

## Fundamental Values and Activities

Consistent with the Land-Grant mission, the **department focuses on** research, academic teaching, outreach/Extension education, and service, as indicated in the department's current PTE document (see <http://www.ext.nodak.edu/~aedept/pdf/PTEJul03.pdf>). Likewise, our values reflect how we perform our tasks and fulfill our responsibilities.

- Our values:**
- 1) We value helping others attain their goals and succeed as students, producers, businesses, consumers, researchers, educators and community leaders.
  - 2) We value well-reasoned creative thinking.
  - 3) We value the application of creative ideas.
  - 4) We value outstanding formal and informal education that serves a variety of audiences and is delivered by a variety of methods.
  - 5) We value team-work and collaboration among individuals in the Agribusiness and Applied Economics department, NDSU, North Dakota, our profession, and the global community.
  - 6) We value each individual's leadership.
  - 7) We value each individual's dedication to fulfilling the mission of the Agribusiness and Applied Economics Department.
  - 8) We value mutual respect for each others' abilities, interests and perspectives.

We also may want to explain several other concepts that we frequently use when discussing our departmental activities. Note, I left some definitions blank (...) to indicate questions that I think the faculty needs to address. For example:

The goal of our academic programs is to offer a bachelor degree that allows students to ... and a Masters degree that allows students to ... I expect this statement to reflect the programmatic learning objectives being developed by the undergraduate and graduate faculty committees (UPC and GPC, respectively) at this time.

As researchers, we will work on ... These activities relate to agribusiness by ... and to applied economics by ...

Our outreach activities are intended to accomplish ... A fundamental component, but not the only component of outreach, is our Extension activities which are intended to accomplish ...

International agribusiness is ... and we pursue it because ...

Our areas of emphasis, what we do, and how we do it are the key points for the remainder of this section.

## Research

The faculty conducts research. I describe **research** as "entering into a mine" in search of answers to questions. Sometimes the researcher only needs to go in 50 feet to find a solution; other issues require the researcher to proceed 1,000 feet into the mine. On the occasions of needing to "dig deeper", it is likely that the researcher will discover a "new gem" that deserves to be "shared" with peers, as well as used to solve the problem that caused the researcher to enter the mine.

- The deeper a researcher needs to "mine" to find a solution, the more likely the results will align with the definition of basic research.
- Occasionally, a researcher may return to the "mouth of the mine" to report having pursued a direction in the mine that turned out to be futile. This too is meaningful research.
- Similarly, there will be times when a researcher reports a new digging process (i.e., a novel application of an analytical technique). On those occasions, the researcher may not have yet

uncovered a gem or answer, but has found a way to improve the digging process (the analytical method). This too is valuable because it provides an improved process by which other researchers can continue searching for gems.

Only infrequently will a faculty member in our department enter the mine without a question that needs to be answered. That is, it is unlikely that we will conduct research for the sake of research. This assumption reinforces the notion that **applied** economics is a fundamental characteristic of our department.

Research activities require ongoing monitoring to maintain and expand productivity, which often take the form of publishing research results in articles for peer audiences, pursuing grants, and disseminating research results to the public.

- The **number of grants**, especially grant proposals being submitted needs to be increased. This is a challenge for new, as well as established faculty members. But **new faculty members should expect to be mentored** by experienced faculty; more on this point later.
- Researchers also should strive to **disseminate their research results to the public** as well as to peers. News releases and web-based summaries may be inexpensive ways to enhance dissemination to the public, for example. Delivering our results so they can be applied to solve problems substantially increases the value of our work.
- **Measures of faculty performance** probably should include the number and variety of publications, number of grant submissions, and collaboration with colleagues (especially departmental colleagues) on publications and grant proposals.

Other thoughts about our research:

- The department needs a vision, objective or goal, organizational structure and reward system that **facilitates collaborative research**; however, this need is based on the assumption that collaborative research is more productive and better aligns with the department's overall purpose of *enhancing the economic vitality of North Dakota*. This assumption, however, may not be held by all members of the faculty. Is there evidence to confirm the validity of the assumption?
- We need to **assure summers are productive** for faculty and graduate students. This issue, to some extent, reflects the 9-month faculty appointments the department has adopted in the past decade.
- We need to **assure all research faculty have Hatch projects and provide meaningful and timely CRIS reports**.
- Perhaps one of the most challenging issues is defining the scope of the department. This issue was previously mentioned. I would suggest that the variety of issues in the state and region demands that **the departmental research effects focus on a range of economic needs**, that the research be allowed to flow or change as needs evolve and departmental interests refocus, and that faculty be allowed to assess where our expertise is needed. Not all faculty members of the department may agree with this much flexibility.

## Teaching

The Department has major teaching responsibilities in the form of academic programs and extension education. **Academic teaching and extension education** are different (e.g., different audiences, different purposes, different educational medium), but they also have similarities (e.g., help learners understand and apply economic concepts in analyzing problems and opportunities, and in decision making). Most of the comments in this subsection of this report address academic programs.

The faculty is working on **undergraduate and graduate curriculum revisions** through a process of developing programmatic and course learning objectives. The idea is beginning to gain a foothold in the faculty's activities, but the process will be slow. These learning objectives will be the foundation for subsequent steps, which include **stating measurable student learning accomplishments, measuring these accomplishments, and further refining the curriculum to continue advancing student learning**. The ultimate goal is to enhance the department's academic programs through a well-designed and implemented **learning assessment plan**.

The department also needs to **define and implement expectations for capstone courses for the undergraduate programs**. A related question is whether "our undergraduate programs are adequately preparing students for employment, self-employment (e.g., business ownership), or graduate school".

The Department offers **graduate studies at the Masters level**, but not at the PhD level. My frank assessment is that the Masters program is not where it needs to be. We are not attracting an adequate number of interested students, nor are we attracting students with the needed level of background training. For students earning a bachelor degree in our program, we should reassess whether we are offering the background education that prepares them for graduate studies. For students who are not graduating from our department, we need to develop or employ better mechanisms to assess whether they are prepared for graduate studies and to devise a plan to address identified deficiencies.

With respect to our Masters program, we also need to address whether our program is adequately preparing graduates for employment; or for some students, is our Masters program adequately preparing them for PhD studies? **Developing and implementing an assessment plan** is one way to explicitly answer this critical question.

The Department does not have a **PhD program** but has been urged for nearly 30 years to consider developing one. The faculty has several ongoing concerns, such as is there a need for another PhD program in economics/agricultural economics, will NDSU have the resources to support a PhD program in our department, etc. Although the decision will not be easy, could we begin the discussion by asking "what can we accomplish with two new faculty FTEs"? Could we develop eight PhD courses? Would two additional FTEs provide some faculty time for advising PhD candidates? What other resources would we need, such as funds for assistantships? How about funds to develop a relationship with other PhD programs to share courses via video conferencing? What would be our PhD niche (this is based on the assumption that we would not have the resources to offer an unlimited PhD program)? What are the academic and private sector employment opportunities for new PhD graduates? How would we market a new PhD program to potential students?

Bottom line - several of the department's assistant professors may have been attracted to NDSU because they are interested in helping devise a PhD program. We need to provide them an opportunity to be part of this decision.

**Undergraduate enrollment** has been "steady to slightly increasing"; **graduate program enrollment** is "flat to declining". Neither program has grown at the same rate as the overall University. This is an issue the department needs to address. Is it the curriculum? Is it our recruiting practices? Is it the title of our programs? Is it the student and family perception of our programs?

Employment opportunities continue to be strong, but we may not be conveying this message adequately to potential students and their families. Can we provide more information to potential students about employment opportunities by revising our **web site**? Are there other ways to attract students?

One challenge is that some employers still express a preference for “farm kids”, but this is not an unlimited pool and it may discourage “city kids” from pursuing careers in food, fiber, and bio-energy. A challenge for us is to devise an educational experience that will prepare “city kids” (**non-traditional majors**) to effectively meet the needs of employers who have relied on “farm kids”. We also need to help employers understand that “non-farm kids” will be excellent employees.

- Related topics include the revised undergraduate **advising** program (which relies on a staff advisors and faculty) and the need to assure effective advising and enhanced **student retention**.

**Distance education** may further reduce the differences between academic programs and extension education, but the two will not merge in the foreseeable future.

- Where does the department see itself in terms of **distance education**? Where does the department see itself in terms of participating in the proposed NDSU Master in Agriculture Management, or in AG\*IDEA as that multi-state effort develops agribusiness programs? How do we motivate busy faculty to participate in distance education? Do we incorporate distance education into position descriptions and annual work plans?

### **Outreach/Extension Education**

In this report for this year, the discussion of **the Extension education program in the department** will be limited; not because it is unimportant or insignificant, but because the overall program is **relatively stable** (e.g., farm management), **yet expanding** (e.g., rural development and renewable energy). I perceive little need for major changes in the short-term. However, I will not project at this time what the planning needs might be for our Extension education programs in one to two years.

Furthermore, I feel that **outreach education and dissemination of research results to the public**, in a format that is useful to the public, **is an important goal for the overall department**.

Responsibility for outreach education is not limited to faculty and educators with Extension appointments; this is no different than the idea that research responsibilities are not limited to faculty with a research appointment.

The Department has a statutory obligation (i.e., a legislative mandate) to **annually calculate the county average value of agricultural land**. This information is then used by the state and counties as the foundation for property tax valuations. The model is mentioned in this section because it is currently being operated by two Extension educators, but this is a departmental obligation that all faculty members must be willing to help fulfill as needed. We also have reached a point where this model needs major reprogramming; that is, convert it from a Lotus spreadsheet to an Excel spreadsheet. This reprogramming also needs to be supplemented with two documents: a technical explanation of how the model is programmed and an explanation of how this program fulfills the detailed directives of the state legislation.

### **Implementing a Strategic Plan**

A departmental vision is important but of minimal value unless it guides the individual and collective activities of the faculty. Several steps may be needed to help embed the vision into the department's culture.

- **Faculty Participation** -- The department has a significant number of assistant professors, about an equal number of professors, a relatively small number of associate professors, several Extension educators/specialists and a few instructors. This distribution of personnel

emphasizes the importance that assistant professors take an active role in developing the vision for the department.

During the strategic planning sessions of 2008, the department used a facilitator. Should we do that again? Alternatively, do we use the NDSU Group Decision Center (GDC) to facilitate faculty planning and interaction?

- **Communication in the department** is critical; structured communication occurs as part of committee work, department meetings, seminars, and “brown bag” discussions. Is this adequate? Can departmental communication be enhanced? Are my e-mails to faculty on an “as needed basis” acceptable, or should I provide a “weekly” update?
- The department faculty deserves a clear indication of what is expected of them. A refreshed **PTE document for the department** and **individual position descriptions** consistent with the PTE document are absolute necessities.

It was suggested at faculty meeting in December 2009 that the **department PTE document** needs to be reviewed to assure expectations and rewards are consistent. I encourage the faculty to consider whether teamwork and collaboration enhances overall productivity and performance; if we agree with this idea, can this value be incorporated into the department PTE expectations? Likewise, as a strategic vision is developed, the **PTE document** may need further refinement to assure it emphasizes the points that the department considers most important. These two documents (the strategic vision and the PTE document) need to be coordinated if we are to accomplish our departmental goals.

The department also needs to develop and/or review **faculty position descriptions** to assure they describe opportunities for the faculty to achieve success in areas consistent with the department vision and PTE expectations. What issues need to be addressed before preparing positions descriptions (e.g., will all positions be the same)? What topics need to be addressed within position descriptions (e.g., what is expected of the faculty member)? Will we try to define teaching responsibilities, e.g. what is required for a 40% college appointment? How might a department strategic vision impact the development of future position descriptions?

I would hope the position descriptions not only include areas of emphasis (e.g., management, economic development, marketing) and activities (i.e., research, teaching, outreach and service), but also indicate what we hope to accomplish (based on department vision and values) and how we hope to accomplish them (e.g., collaboration, external funds, innovation, leadership).

Similarly, staff and researchers deserve up-to-date positions descriptions that encourage and reward performance and professional growth that advances the department's vision.

- **Feedback -- Annual Review** – Faculty deserves regular feedback such as the annual review. It also is an opportunity for faculty members to develop **plans of work**, as well as indicating areas they consider as potential for **professional growth**.
- **Personal Guidance – Mentoring** -- New faculty members deserve to be mentored to help new them establish themselves as successful researchers, grantsmans, teachers, extension/outreach educators? How do we **mentor**? Do we incorporate mentoring expectations into the PTE document so senior faculty understand the expectation?

- **Departmental Teamwork and Collaboration** -- What do we expect in terms of **teamwork/collaboration** in the department? What form of teamwork should be expected among faculty members and why? These questions may have a bearing on what is specified as the department's goals and how we intend to accomplish the goals. Many believe we need to build teamwork within the department and with others, but not everyone places the same emphasis on this point. Again, does this notion need to be incorporated into the PTE document?
- **Collaborating with Others Outside the Department** -- Communication with other researchers and educators at NDSU and other institutions within North Dakota and around the world is vital to the success of our faculty. What is the value or benefit to those we interact with? What is the value to us of interacting with them? How do we inspire others to interact with us and how do we motivate ourselves to interact with them? What mechanisms do we use to establish and maintain interactions?

We must guard against the College of Business and the Department of Agribusiness & Applied Economics entering into an environment of negative competition. Friendly competition may be beneficial, but **effective collaboration is the clear preference**.

One aspect of assuring effective collaboration with the College of Business is describing **what is meant by agribusiness**. How do our faculties complement one another?

Has the move to Barry Hall negatively impacted collaboration with other NDSU units? As the department spends more time in Barry Hall, will we be able to determine whether the department's location is adversely impacting the development of new collaboration? What can be done to assure collaboration with other NDSU units, irrespective of location?

How do we use technology to work more closely with other NDSU units with similar technology and common interests, such as the Research Extension Centers (RECs)? Can we begin by sharing our departmental seminars with the NDSU RECs?

How do we **establish relationships with clientele**? Departmental visits by business persons, and university colleagues (e.g., SDSU) is one way to initiate interaction. How do we expand our interaction with the North Dakota Trade Office, North Dakota Department of Agriculture, North Dakota Department of Commerce, AgCountry, AdFarm, the professional NAMA chapter, and others? How do we establish and maintain communication with business, community, state, national and international leaders?

- Do we review and revise the responsibilities of the department's outreach committee to include facilitating interactions with businesses and other clientele, in addition to the committee's focus on Extension education programs and outreach presentations?

- **Advisory Group** -- Do we establish a departmental **advisory group**? What would be the purpose of an advisory group? How would we establish an effective advisory group? How would we interact with an advisory group? Do we begin with an interim advisory group so we do not "cut our teeth" with those we want to be part of the initial long-term/permanent advisory group? These questions have been asked many times in the past decades; do we follow through with this idea?
- **Faculty development** -- Another topic that is not mentioned in this section is **professional development** for faculty; it is a topic that has not been explicitly addressed in the recent past.

The question might be what type of professional development are faculty expected to pursue and the department is expected to support.

- **Sustaining our Centers** -- Department faculty also lead or co-lead several **NDSU centers**: Quentin Burdick Center for Cooperatives, Center for Agricultural Policy and Trade Studies (CAPTS), Center for Community Vitality, State Census Data Center, Bio Energy and Product Innovation Center (BioEPIC) and Oilseeds Center of Excellence. I believe these are an important structure for advancing departmental pursuits.

What is our vision for the **centers associated with the department**? What is the collective vision for the centers? What resources are needed and what is the vision for sustaining the centers?

- What is the relationship between the department and the centers that agribusiness faculty lead?
- What does the department do to sustain and expand the productivity of the departmental centers?

A concern, as we look to the future, is assuring that these centers remain productive should its current faculty leader retire or resign. With respect to centers led by department faculty, are we devising a plan to sustain the center beyond the career of the current leader? Do we want to sustain the centers beyond the current leader? Do we concern ourselves about sustaining the center only after the current leader has retired or resigned?

**Conclusion** – these several pages summarize my observations about the department, our strengths and our opportunities. Faculty will have a range of ideas and reactions to these thoughts. These pages are offered for the individual and collective thinking of the faculty. I hope the next step is professional communication to refine these ideas and that they then serve as the foundation for a strategic vision.

The next section lists activities that I would like the department to accomplish during 2010.

### Action steps

The following list suggests some actions the Department may consider; the statements also suggest who could provide leadership and a timeline for measuring progress.

- Enhance the department's web presence to attract students, disseminate educational materials and research results, and encourage interaction with peers, businesses, agencies, and others [Ad hoc communication committee, staff and faculty; July 1, 2010]
- Investigate and begin to use alternative ways to accomplish our academic and outreach education
  - Provide staff an opportunity to learn how to support faculty and educators in using the Barry Hall video conferencing and digital education resources (chair and interested staff; February 15, 2010)
  - Begin disseminating educational materials in a digital format (interested faculty, educators and staff; May 1, 2010).
- Complete current phase of the curriculum review process
  - Complete a set of programmatic and course learning objectives (UPC, GPC and faculty; May 1, 2010)

- Develop and implement a plan to measure learning and to revise course-level teaching and academic program direction (UPC, GPC and faculty; Nov. 1, 2010).
- Revise graduate handbook and graduate program policies and practices (GPC and faculty; May 1, 2010)
- Form interim advisory group (chair and executive committee with input from faculty; March 1, 2010); form first permanent advisory group (faculty and interim advisory group; December 1, 2010).
- Enrich internal and external department communication with seminars, brown bag discussions, etc; the goal is not only to inform one another, but to lay the foundation for more collaboration within the dept and with others outside the department.
  - Prepare a seminar schedule with 6 internal seminars for spring semester (chair and identified faculty member; February 1, 2010)
  - Disseminate department seminars via technology (e.g., IVN/ConferenceMe and Wimba) (chair and identified faculty member; begin March 1, 2010)
- Express expectation of increased grantsmanship as part of annual review and next year's goals (chair, spring 2010); 75% of faculty involved with an awarded grant or a submitted grant proposal (September 1, 2010)
- Express expectation of expanded dissemination of research results to public, e.g., news releases, department reports, web-based summaries (discussed as part of annual review and next year's goals; chair, spring 2010); increased number of news releases (March 1, 2010), web-based summaries (September 1, 2010), increased number of departmental reports (October 1, 2010)
- Faculty position descriptions developed or reviewed/updated (chair and executive committee; July 1, 2010)
- Review and revise department PTE document (PTE committee; Sept. 1, 2010)
- Assure all research faculty have Hatch projects (chair and mentors; Sept. 1, 2010)

#### F. Enrollment and FTE data

Spring 2008 (083)						
Instructor	Prefix	Number	Title	Cr	Enrollment	FTE
Lim, S	ECON	105	Elements of Economics	3	174	0.653
Mack, L	ECON	105	Elements of Economics	3	123	0.461
Gustafson, C	ECON	105	Elements of Economics-DCE	3	123	0.231
Leitch, R	ECON	201	Principles of Microeconomics	3	224	0.840
Kritsky, C	ECON	201	Principles of Microeconomics	3	213	0.799
Wachenheim, C	ECON	202	Principles of Macroeconomics-DCE	3	83	0.311
Mack, L	ECON	202	Principles of Macroeconomics	3	175	0.656
Garosi, J	ECON	202	Principles of Macroeconomics	3	41	0.154
Gustafson, C	ECON	202	Principles of Macroeconomics-DCE	3	105	0.197
Wachenheim, C	AGEC	244	Agric Mktg, Livestock Emphasis	3	119	0.446
DeVuyst, C	AGEC	246	Agricultural Finance I	4	35	0.175

DeVuyst, C	AGEC	246	Agricultural Finance I	4	19	0.095
DeVuyst, C	AGEC	246	Agricultural Finance I	4	42	0.210
Herren, R	ECON	324	Money&Banking	3	55	0.303
Herren, R	ECON	324	Money&Banking	3	48	0.265
Lim, S	ECON	341	Intermediate Microeconomics	3	36	0.199
Garosi, J	ECON	343	Intermediate Macroeconomics	3	45	0.248
Miljkovic, D	AGEC	344	Agricultural Price Analysis	3	37	0.204
Shaik, S	AGEC	346	Agricultural Finance II	3	26	0.143
Wachenheim, C	AGEC	350	AgriSales	3	38	0.210
McKee, G	AGEC	374	Cooperatives	3	16	0.088
McKee, G	BUSN	374	Cooperatives	3	20	0.110
Saxowsky, D	AGEC	375	Applied Agricultural Law	3	1	0.006
Saxowsky, D	SAFE	401	Orientation to Food Safety -DCE	1	14	0.013
Saxowsky, D	SAFE	408	Food Safety Regulatory Issues - DCE	1	4	0.007
DeVuyst, E	AGEC	420	Integrated Farm/Ranch Mngmt.	3	39	0.215
McKee, G	AGEC	445	Agribusiness Industrial Strategy	3	11	0.061
DeVuyst, C	AGEC	451	NAMA	1	6	0.011
Saxowsky, D	AGEC	452	Food Laws & Regulations	3	4	0.022
Saxowsky, D	SAFE	452	Food Laws & Regulations	3	5	0.000
Vachal, K	ECON	461	Economic Development	3	22	0.121
Koo, W	ECON	472	International Trade	3	21	0.116
Taylor, R	AGEC	484	Agricultural Policy	3	35	0.193
Saxowsky, D	SAFE	601	Orientation to Food Safety -DCE	1	3	0.005
Saxowsky, D	SAFE	601	Orientation to Food Safety (NDSU online)	1	6	0.010
Saxowsky, D	SAFE	608	Food Safety Regulatory Issues (NDSU online)	1	1	0.003
Saxowsky, D	AGEC	652	Food Laws & Regulations	3	2	0.021
Saxowsky, D	SAFE	652	Food Laws & Regulations	3	1	0.010
Vachal, K	AGEC	661	Economic Development	3	3	0.031
Koo, W	ECON	672	International Trade	3	4	0.042
Miljkovic, D	AGEC	710	Adv Econometrics	1	13	0.045
Shaik, S	AGEC	739	Analytical Methods	3	12	0.125
Wachenheim, C	AGEC	744	Agbus I: Ag PR Mktg/Agbus Str	3	6	0.031
Wilson, W	AGEC	744	Agbus I: Ag PR Mktg/Agbus Str	3	6	0.031
Leistriz, L	AGEC	791	Temporary/Trial Topics	1	17	0.030
Hodur, N	AGEC	791	Temporary/Trial Topics	1	17	0.030
Leistriz, L	AGEC	791	Temporary/Trial Topics	1	1	0.002
Hodur, N	AGEC	791	Temporary/Trial Topics	1	1	0.002
Various faculty	AGEC	798	Masters Thesis (total FTE for term)			0.045

<b>Summer 2008 (084)</b>						
<b>Instructor</b>	<b>Prefix</b>	<b>Number</b>	<b>Title</b>	<b>Cr</b>	<b>Enrollment</b>	<b>FTE</b>
Gustafson, C	ECON	105	Elements of Economics-DCE	3	69	0.259
Wachenheim, C	ECON	201	Principles of Microeconomics-DCE	3	43	0.161
McKee, G	ECON	202	Principles of Macroeconomics	3	14	0.053
Wachenheim, C	ECON	202	Principles of Macroeconomics-DCE	3	20	0.075
McKee, G	ECON	202	Principles of Macroeconomics-DCE	3	11	0.041
Herren, R	ECON	324	Money&Banking	3	35	0.193
Saxowsky, D	SAFE	401	Orientation to Food Safety -DCE	1	4	0.004
Saxowsky, D	SAFE	408	Food Safety Regulatory Issues - DCE	1	3	0.006

Herren, R	ECON	494	Individual Study	1	1	0.002
Coop Internships	AGEC	397	Study Tour Abroad	3	1	0.006
DeVuyst, C	AGEC	496	Field Experience-Agribusiness	3	4	0.022
Wahl, T	AGEC	496	Field Experience	3	3	0.017
Saxowsky, D	SAFE	601	Orientation to Food Safety (NDSU online)	1	3	0.005
Saxowsky, D	SAFE	608	Food Safety Regulatory Issues (NDSU online)	1	3	0.010
Various faculty	AGEC	798	Masters Thesis (total FTE for term)			0.052

<b>Fall 2008 (091)</b>						
<b>Instructor</b>	<b>Prefix</b>	<b>Number</b>	<b>Title</b>	<b>Credits</b>	<b>Enrollment</b>	<b>FTE</b>
Gustafson, C	ECON	105	Elements of Economics-DCE	3	74	0.278
Mack, L	ECON	105	Elements of Economics	3	119	0.446
Baek, J	ECON	105	Elements of Economics	3	153	0.574
Wachenheim, C	ECON	201	Principles of Microeconomics-DCE	3	57	0.214
Fahs, F	ECON	201	Principles of Microeconomics (majors)	3	46	0.173
Kritsky, C	ECON	201	Principles of Microeconomics	3	220	0.825
Kritsky, C	ECON	201	Principles of Microeconomics	3	222	0.833
Gustafson, C	ECON	202	Principles of Macroeconomics-DCE	3	25	0.094
Gustafson, C	ECON	202	Principles of Macroeconomics (NDSU online)	3	79	0.296
Mack, L	ECON	202	Principles of Macroeconomics	3	179	0.671
Fewell, J	AGEC	242	Intro/Agricultural Management	4	45	0.225
Fewell, J	AGEC	242	Intro/Agricultural Management	4	47	0.235
Fewell, J	AGEC	242	Intro/Agricultural Management	4	42	0.210
Herren, R	ECON	324	Money & Banking	3	45	0.248
Herren, R	ECON	324	Money & Banking	3	42	0.232
Lambert, D	AGEC	339	Quant Methods & Decision Making	3	40	0.221
Lambert, D	AGEC	339	Quant Methods & Decision Making	3	4	0.022
Lambert, D	ECON	341	Intermediate Microeconomics	3	44	0.243
Saxowsky, D	AGEC	342	Farm/Agbus Mgmt II	3	22	0.121
Barber, K	ECON	343	Intermediate Macroeconomics	3	41	0.226
Barber, K	AGEC	347	Principles of Real Estate	3	33	0.182
Barber, K	BUSN	347	Principles of Real Estate	3	48	0.265
Saxowsky, D	AGEC	375	Applied Agricultural Law	3	21	0.116
Dybing, A	AGEC	378	Intro/Transportation & Logistics	3	22	0.121
Saxowsky, D	SAFE	401	Orientation to Food Safety -DCE	1	3	0.003
Saxowsky, D	SAFE	408	Food Safety Regulatory Issues - DCE	1	2	0.004
Lim, S	ECON	410	Intro to Econometrics	3	16	0.088
Wilson, W	AGEC	444	Crops Marketing	3	19	0.105
Fahs, F	AGEC	446	Agribusiness Finance	3	15	0.083
Wahl, T	AGEC	450	NAT Agrimarketing Assoc (NAMA) 1	1	4	0.007
Herren, R	ECON	476	Monetary Theory and Policy	3	28	0.154
Hearne, R	ECON	481	Natural Resource Economics	3	45	0.248
Wahl, T	AGEC	491	Sr Agribusiness Seminar	2	5	0.018
Wahl, T	ECON	496	Individual Study	2	1	0.004
Saxowsky, D	SAFE	601	Orientation to Food Safety (NDSU online)	1	4	0.007
Saxowsky, D	SAFE	608	Food Safety Regulatory Issues - DCE	1	4	0.014
Saxowsky, D	SAFE	608	Food Safety Regulatory Issues (NDSU online)	1	1	0.003

Lim, S	ECON	610	Intro to Econometrics	3	6	0.063
Wilson, W	AGEC	644	Crops Marketing	3	1	0.010
Herren, R	ECON	676	Monetary Theory and Policy	3	3	0.031
Hearne, R	ECON	681	Natural Resource Economics	3	9	0.094
Lambert, D	AGEC	701	Research Philosophy	3	8	0.083
Wilson, W	AGEC	711	Adv. Topics/Econometrics/Risk Analysis	3	9	0.094
Hearne, R	AGEC	741	Adv Microeconomics	1	8	0.028
Wilson, W	AGEC	746	Agbus II/AgFin/Comm Tra	3	3	0.016
Shaik, S	AGEC	746	Agbus II/AgFin/Comm Tra	3	3	0.016
Instructor/student	AGEC	798	Masters Thesis (total FTE for term)			0.208

### G. Other relevant data and materials

#### H. Diversity

The department continues to advance diversity through its hiring practices and student population. The department's most recent hires (i.e., 8 assistant professors) include 2 females and 2 Asians. Our graduate admissions in August 2009 will be 5 females and 4 males; 5 of these students are international.

The department has not achieved the same diversity in the undergraduate program because most of the students are drawn from North Dakota and surrounding states. Females comprise approximately 10 percent of the undergraduate student majors. Nor has the Department achieved a close working relationship with the colleges at North Dakota's tribal communities.