

Department of Agribusiness and Applied Economics

**North Dakota State University
Annual Report 2007**



Mission

The Mission of the Department of Agribusiness and Applied Economics is to provide objective economic analysis to support informed decision making in areas of resource allocation, business management, and public policy for the people of North Dakota and beyond. Faculty and staff shall provide high-quality education programs for undergraduate and graduate students and for audiences across the state reached through University outreach efforts.

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INTRODUCTION AND DEPARTMENTAL OVERVIEW

The Department of Agribusiness and Applied Economics strives to improve public and private decision making through teaching, research, and outreach activities soundly based on economic science.

Faculty and Staff Highlights for 2007

Teaching

- Student recruitment has led to a slight increase in the number of undergraduate majors in the department. The number of majors has increased from 161 in 1990 to 210 in the fall of 2007.
- The department continues to be a major contributor to undergraduate teaching at NDSU, generating nearly 17 student FTEs in 2007.
- Several faculty continue to provide distance education courses to reach this growing market segment. Over 500 students enrolled in departmental distance courses in 2007.
- The outstanding quality of teaching by faculty in the department was recognized by faculty being awarded the H. Ronald and Janet Lund Excellence in Teaching Award (Cole Gustafson) and the NDSU Apple Polisher Award (Eric DeVuyst).
- Bill Wilson. *University Distinguished Professor*, October 2007.
- Cheryl DeVuyst. William J. and Angelyn A. Austin Advising Award, College of Agriculture, Food Systems and Natural Resources, North Dakota State University
- Cheryl Wachenheim. Who's Who of American Women (2007)
- Cole Gustafson. CAFSNR H. Roald and Janet Lund Excellence in Teaching Award
- Eric DeVuyst. NDSU Bison Ambassadors Apple Polisher Award 2007
- Tim Petry. *Premier Forecaster Award* from the American Agricultural Economics Association

Research

- Bill Wilson was named a University Distinguished Professor.
- Twenty-six peer reviewed journal articles were authored by faculty in the department in 2007 (a fall from the 32, 34 and 36 published in 2006, 2005 and 2004, respectively).
- The Center for Agricultural Policy and Trade Studies continues to provide timely analyses of trade, farm programs, and natural resource issues vital to state and national policy makers.
- Research by Larry Leistritz and Nancy Hodur continues to lay the groundwork for expanding markets for North Dakota farmers by commercialization of agricultural biomass for energy and industrial use.
- International recognition for the department results from two faculty members, Dragan Miljkovic and David Lambert, serving as editors of two leading field journals, the *Journal of International Agricultural Trade and Development* and the *Journal of Agricultural and Resource Economics*, respectively. Dr. Miljkovic also serves as the associate editor of the *Journal of Agricultural and Applied Economics*.

Extension and Outreach

- Involvement by the Extension Economics faculty (Tim Petry, George Flaskerud, Dwight Aakre, Andy Swenson, Ron Haugen, and also including Cole Gustafson) by providing management, marketing, and finance education to women in agriculture was recognized as Annie's Project is continued.
- Both Extension and research faculty continue to be invited to share research findings and educational materials around the state and region. Programs addressed farm adjustments to increasing input costs and cropping opportunities, to new opportunities for farmers and investors in producing biofuels and other bioproducts, and strategies for rural communities to retain and attract new businesses.

Additional information about the Department and its associated research and outreach Centers can be found at:

The Department of Agribusiness and Applied Economics at North Dakota State University:

<http://www.ext.nodak.edu/homepages/aeddept/>

The Center for Agricultural Policy and Trade Studies:

<http://www.ag.ndsu.nodak.edu/capts/>

The North Dakota State Data Center:

<http://www.ndsu.nodak.edu/sdc/>

**2007 Annual Report
Department of Agribusiness and Applied Economics**

A. INSTRUCTION AND STUDENT SUCCESS

1. Teaching Trends, Initiatives, and Innovation

Courses, Teaching Faculty, and Enrollment Trends

Courses taught and FTEs generated for both CY07 and for the fall and spring terms of CY07 are listed in Appendix A.

Faculty Teaching Loads, CY07.

Instructor	Generated	Appointment	Overload
Berwick, M	0.083	0.000	0.083
DeVuyst, C	0.697	0.300	0.397
DeVuyst, E	0.767	0.350	0.417
Garosi, J	1.122	0.800	0.322
Gustafson, C	2.234	0.800	1.434
Hearne, R	0.324	0.200	0.124
Herren, R	1.503	1.000	0.503
Koo, W	0.335	0.100	0.235
Kritsky, C	1.538	0.500	1.038
Lambert, D	0.713	0.300	0.413
Lehrke, L	1.440	1.000	0.440
Leitch, R	0.980	1.000	-0.020
Lim, S	0.426	0.800	-0.374
Mack, L	2.261	1.000	1.261
McKee, G	0.285	0.350	-0.065
Miljkovic, D	0.280	0.300	-0.020
Nganje, W	0.024	0.000	0.024
Onyango, B	0.159	0.000	0.159
Saxowsky, D	0.343	0.500	-0.157
Shaik, S	0.036	0.150	-0.114
Taylor, R	0.088	0.000	0.088
Wachenheim, C	1.197	0.400	0.797
Wilson, W	0.316	0.300	0.016
Totals	17.152	10.150	7.002

* - Dr. Shaik joined the department in August 2007.

Enrollment Trends by Calendar Year - Student FTEs Generated, CY92-CY08 (Based on course enrollment figures maintained in the Department).

Calendar Year	100-200	105, 201, 202	DCE	300	400	600-700	Thesis	Total FTEs
1992	1.020	0.000	0.000	0.794	0.496	0.194	0.063	2.505
1993	1.653	0.000	0.000	1.028	0.923	0.236	0.087	3.839
1994	2.521	0.000	0.000	1.195	0.797	1.146	0.306	5.659
1995	4.090	0.000	0.000	1.831	0.936	0.681	0.094	7.537
1996	3.230	0.000	0.000	1.651	0.570	1.135	0.517	6.586
1997	3.745	0.000	0.000	2.064	0.737	0.878	0.365	7.425
1998	3.801	0.000	0.000	1.980	0.756	1.256	0.229	7.793
1999	3.698	0.000	0.000	2.086	1.059	0.810	0.281	7.653
2000	4.789	1.939	0.000	2.149	1.132	0.980	0.170	9.050
2001	6.953	5.614	0.000	3.561	0.985	1.106	0.371	12.604
2002	7.646	6.480	0.000	3.789	1.310	1.265	0.475	14.010
2003	9.098	7.815	0.000	4.412	1.439	1.374	0.247	16.322
2004	9.859	8.546	0.000	3.778	1.296	1.388	0.323	16.320
2005	9.698	8.280	0.150	3.794	1.217	0.889	0.174	15.598
2006	10.369	8.974	1.811	4.436	1.336	1.034	0.451	17.174
2007	10.778	9.274	2.033	3.717	1.331	1.358	0.274	17.183

Student FTEs are reported by calendar year.

The student FTEs reported in the table illustrate both the increase in student FTEs generated by the department (increasing over 153% between CY94 and CY07) and a change in the composition of courses delivered. Over half of the student FTEs are generated in the lower level principles classes, primarily 105, 201, and 202, as opposed to about 30% in these classes at the beginning of the period. The large increase in 300 level class enrollments beginning in AY02 reflects the addition of ECON classes to the department. Continuing strength in 400 level courses reflects attractiveness of the upper division economics classes and the growing number of Economics majors.

FTEs generated in graduate courses (600 and 700 level) have ranged from about .9 to 1.37 since the late 1990s. The fluctuations reflect alternate year classes, changes in the curriculum, reliance of several interdisciplinary programs on courses taught in the department, and teaching of graduate courses in the department rather than in the former Economics department.

Initiatives and Innovations

The Department continues limited cohort scheduling in 2007. This practice, initiated in 2004, limits one section each of ECON 201 (Microeconomics) and 202 (Macroeconomics) to majors in Agribusiness, Agricultural Economics, and Economics. ECON 201 had 33 students in the fall of 2007 and Econ 202 had 44 students in the spring 2007 semesters. The smaller student/teacher

ratio possible in these designated courses improves student exposure to economic concepts considered essential to our majors, as well aids in recruitment and retention of students to the program.

Online offerings of the Elements of Economics (ECON 105) and the Principles of Microeconomics (ECON 201) and Macroeconomics (ECON 202) continued in 2007. Since the fall of 2005, students have had the option of enrolling in online offerings of ECON 105 or ECON 202 either through the Distance and Continuing Education program or as regular in-load NDSU enrollment.

2. Advising Initiatives and Innovation

In 2007, all incoming freshmen were assigned to Becky Leitch, a senior lecturer in the Department. As the main contact for new students, Becky provided students an excellent introduction to the Department and instilled in them a habit of working with their advisors to ensure satisfactory progress through our four-year program. Becky was also the instructor of the small section of ECON 201 dedicated to serving our majors, further strengthening personalization of our students' educational experience.

Fall 2007 Advising Assignments

Advisor	FR	SO	JR	SR	Total
Berryhill,David				1	1
Bitzan,John D			2		2
Council,Susan Lee			2		2
Danbom,David				1	1
Devuyt,Cheryl	1	10	1	3	15
Devuyt,Eric	2	5	5	5	17
Garosi,Justin P	1	7	6	2	16
Gustafson,Cole R	3	3		3	9
Hearne,Robert	1	1	6	3	11
Herren,Robert S	1	1	3	14	19
Kim,Jang Chul				1	1
Knoepfle,Terry William				1	1
Koo,Won					0
Lambert,David K	3	6	1	1	11
Leitch,Rebecca Lynn	32	3	8	8	51
Lim,Siew Hoon		1	2		3
McKee,Gregory J					0
Miljkovic,Dragan	2	4	6		12
Nganje,William			1		1
Saxowsky,David M			4	10	14
Solseng,Elton				1	1
Stone,James J				1	1
Traub,Rodney D				1	1
Wachenheim,Cheryl Joy	1	3	2	4	10
Wageman,Justin J		1			1
Wilson,William W	2	3	1	1	7
Wood,Robert A		2			2
Total	49	50	50	61	210

Advising evaluations are administered online. The spring 2008 evaluation reports activities for AY08. Feedback was received from 11 current students in the program providing comments on six faculty advisors. Because of the small number of students responding it is difficult to draw meaningful conclusions about individual advisors from the results. Aggregated results for the Department are listed below:

My Advisor is well prepared to help me with:	Agree Strongly	Agree	Neutral	Dis-agree	Dis-agree Strongly	Mean (Std. Dev.)
Course selection	7	4				4.64 (0.50)
Career planning	5	5	1			4.36 (0.67)
University life	3	4	4			3.91 (0.83)
My advisor cares about me	6	3	2			4.36 (0.81)
I would recommend my advisor to others	8	1	2			4.55 (0.82)

3. Curriculum Development (new programs, program deletions, administrative changes)

Online versions of ECON 105 and 201 were developed. One section of 202 was revised to use Aplia, PRS, and podcasting. The use of Blackboard for courses has increased and has facilitated the updating of course materials as they are put online. ECON 374 was substantially revised to accommodate Dickinson State Students. In addition, an inter-university classroom experience was incorporated into the class: students from NDSU, DSU, and Kansas State University participated in a video conference with the CEO of American Crystal Sugar Company (ACSC).

4. Accreditation or Other Reviews

No departmental accreditation or other reviews were conducted during 2007.

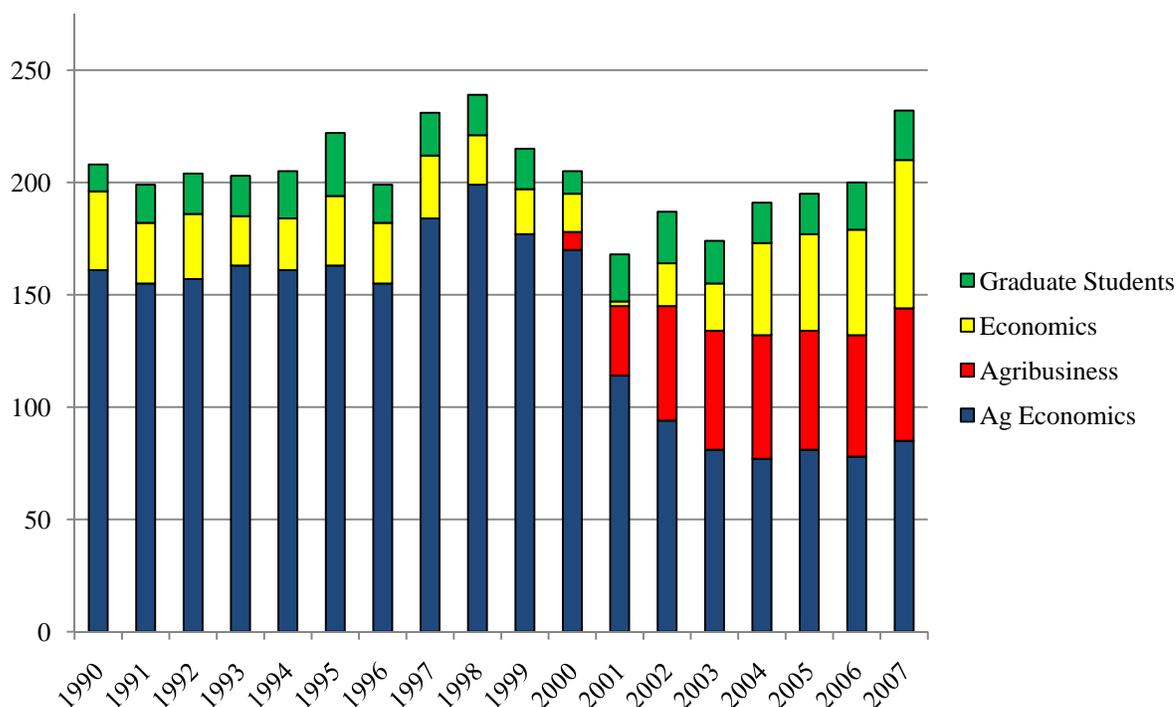
5. Activities in Student Recruitment/Retention, Enrollment Management, and Other Student Activities

Student Recruitment/Retention

Undergraduate Majors and Graduate Students

	2002	2003	2004	2005	2006	2007
Ag Economics	94	81	77	81	78	85
Agribusiness	51	53	55	53	54	59
Economics	19	21	41	43	47	66
Total - Undergrads	164	155	173	177	179	210
Graduate Students	23	19	18	18	21	22

Source – CAFSNR Handouts (2007)



Student numbers in the combined majors of Agricultural Economics and Agribusiness steadily declined from 1998 through 2006. However in 2007 the number of majors increased by 12, perhaps signaling a reversal in the downward trend.

The total number of Economics majors at NDSU has nearly doubled since 1990 (from 35 in 1990 to 66 in 2007) and have steadily increased since 2001 with a strong increase (40%) in 2007 over 2006. The steadily increasing number of economics students reflects a growing interest in establishing a strong Economics program on campus.

We continue to distribute fact sheets in ECON 201 and 202 promoting the Economics major and the ease of double-majoring in Economics and another area. There has been an increase in double majors since 2003, so this effort seems to be effective.

Graduate Students

Fifteen new graduate students entered the program during the 2007 academic year. Of the 15 students, two have withdrawn from the program and one has taken a leave of absence to work for the World Bank. Of the 13 students admitted in 2006, 9 had successfully defended their thesis by Spring 2008.

Nine students enrolled in the Graduate program in the fall of 2007.

Enrollment Management

Enrollment management records are maintained by our office support staff and are also the responsibility of advisors.

Other Student Activities

Clubs – The primary clubs for agricultural economics majors are the Agribusiness Club, the student chapter of NAMA, and Collegiate Farm Bureau and Farmers' Union Chapters. The Agribusiness Club hosts many fundraising and social events during the year. Bill Wilson and Skip Taylor assumed lead role as advisors to the Agribusiness Club in 2007.

The NAMA chapter has been advised by Cheryl DeVuyst, the instructor of AGEC 450/451 which is the academic home for the NAMA team. Student numbers in the courses were 19 in the spring of 2007 (AGEC 451) but fell to 7 in the fall of 2007 (AGEC 450). Spring 2008 (AGEC 451) enrollment was 6 students. The chapter's efforts culminate in presentations at the annual NAMA competition. The NAMA chapter attended the 2007 national conference and advanced to the semi-finals.

Scholarships - The Department of Agribusiness and Applied Economics has one of the most successful scholarship programs on campus, awarding approximately \$40,000 each year to students in our different programs. A continuing need in the scholarship area is to increase availability of scholarship funds for Economics majors.

6. Distance Education and On-Line Initiatives

The Department continues to adopt new technology to enhance teaching. All classes are available to students via BlackBoard. Adoption and use of webpages, online resources, and other features of web-based instruction vary by instructor. Several instructors have incorporated PRS devices into their courses. In addition, several instructors have adopted Podcasts as a means to increase student access to course materials.

Web-based courses offered in the 2007 academic year include ECON 105 (Elements of Economics), ECON 201 (Principles of Microeconomics), ECON 202 (Principles of Macroeconomics), AGEC 350 (AgriSales), and AGEC 375 (Agricultural Law).

7. Assessment

The 2006 Assessment Report score received June 7, 2007 indicated that significant room for improvement exists in the department's effort to assess student learning. We received a 2 out of a high possible score of 10. The department's ad hoc assessment committee is developing a new assessment plan to be implemented in the coming year.

8. Awards and Recognition of Faculty/Students

The following faculty and staff awards received during calendar year 2007:

- Bill Wilson. *University Distinguished Professor*, October 2007.

- Cheryl DeVuyst. William J. and Angelyn A. Austin Advising Award, College of Agriculture, Food Systems and Natural Resources, North Dakota State University
- Cheryl Wachenheim. Who's Who of American Women (2007)
- Cole Gustafson. CAFSNR H. Roald and Janet Lund Excellence in Teaching Award
- Eric DeVuyst. NDSU Bison Ambassadors Apple Polisher Award 2007
- Tim Petry. *Premier Forecaster Award* from the American Agricultural Economics Association

B. RESEARCH AND SCHOLARSHIP

In addition to contributing new knowledge, economics research is essential to the maintenance of effective and relevant educational and outreach efforts. Individual faculty members are encouraged to develop research programs in their areas of specialization to increase the value of their contributions to the people of North Dakota.

1. Research and Creative Activity

Departmental research addresses a wide variety of issues important to American producers and consumers:

Lessons from an Unsuccessful Cooperative Venture (Greg McKee)

A case study of the Spring Wheat Processors Cooperative was done to provide a series of generalizable lessons which can be transferred to current and future cooperative ventures. The information discovered can be used to review the decision making process used to form and operate a cooperative and provide organizational and operating guidelines to others with a similar opportunity to form a cooperative.

The Economic Impact of Cooperatives (Greg McKee)

Greg McKee and the Center for Cooperatives conducted research about the economic impact of cooperatives. A measure of the economic impact of the cooperative business sector would be useful to many groups as they justify their investment in cooperative development. Cooperative trade associations are interested in estimates of the business volume and economic impacts of the broad cooperative sector. These associations can use information to underscore the importance of their membership and to justify political support. Leaders of rural communities are often involved with attracting or developing value-added cooperative businesses. These individuals are interested in forecasting economic impact to justify incentive packages. Finally, economists and other scholars are interested in determining whether cooperatives generate a different level of economic impact relative to alternative forms of business organizations.

The Role of Capital Structure on Cooperative Success (Greg McKee and William Nganje)

Alternative capital structures of cooperatives are an important topic to cooperative managers and investors. Drs. McKee and Nganje compared the success of two relatively new approaches, demutualization and the effect of new financial statutes on the returns available to cooperative investors. This research expands our understanding of the effect of these types of capital structures on the relative merits of investments in cooperatives.

Invasive Pest Management Strategies for Agriculture (Greg McKee)

Research on invasive species led to the development of a theoretical and empirical approach that allows policymakers to formulate environmental policies that best respond to invasive species. This approach facilitates an empirical assessment of the effects of such regulations on the welfare of affected economic agents and on the efficacy of control of the pest. It also suggests the types of information that would be most valuable for improving the economic efficiency of regulations as the invasion persists.

State Land Valuation Model (Dwight Aakre and Ron Haugen)

The Department of Agribusiness and Applied Economics is charged by the state legislature with developing the North Dakota Land Valuation Model. The results of this research are turned over to the State Tax Department which provides each county with these values to assure uniformity in the valuation process across county lines. Every owner of agricultural land in the state is impacted by the values determined from this research.

The Role of Genotype in Cattle Performance (Eric DeVuyst, Jay Mitchell, and Marc Bauer)

A causal relationship was established between leptin genotype and cow-calf profitability. Cows with fat leptin genotype (TT) were found to wean calves that were approximately 14 pounds heavier than lean genotype (CC) cows. Heterogenous genotype cows (CT) were found to wean calves that were approximately 13 pounds heavier than lean genotype (CC) cows. Further, TT and CT cows were found to have productive lives that were approximately 2 and 1.5 years, respectively, longer than CC cows. The impact of increased weaning weights and longevity on profitability ranged from \$39-\$64 per cow per year for TT vs CC cows and range from \$15-\$30 per cow per year for CT vs CC. An interaction between cow breed and genotype was found to also significantly affect calf weaning weights and profitability. It is anticipated that breeding livestock selection will increasingly be influenced directly by genotype. Further, analysis of livestock enterprise profitability will explicitly consider genetic information.

Developing a Biomaterials Industry in North Dakota (F. Larry Leistritz and Nancy M. Hodur)

North Dakota has tremendous potential for capitalizing on the emerging biobased products and fuels industry. Utilizing technologies to produce bioproducts from crop residues, specifically wheat straw, researchers in Agribusiness and Applied Economics, in conjunction with MBI International, are currently engaged in a project to commercialize the use of very small cellulose fibers (nanofibers) to make a bio-based cellulose reinforced composite that could be used in place of fiberglass reinforced composites. Over the next 10 years, the growth of bio-based chemicals and materials is expected to generate \$160 billion in new revenues annually. As one of the top three ranking states for available low-cost biomass, North Dakota is uniquely positioned to become a key player in this emerging industry.

The Impact of Multilateral Trade Association Membership on Agricultural and Food Trade (David Lambert)

Trade in agricultural products accounts for nearly nine percent of total product trade, over double the four percent contribution of agricultural production value added to world GDP each year. Reduction in trade costs, including policy barriers such as tariffs and non-tariff barriers, is estimated to increase global welfare by up to \$300 billion if the provisions of the current Doha Round are adopted. The importance of global trade agreements was supported in research conducted in 2007. Joint membership in the WTO by exporters and importers was found to increase agricultural trade between members by 132 percent in 2004. Trade to nonmembers was reduced. Of national importance, agricultural trade among the three members of NAFTA was found to be increased by 108 percent. In addition, trade between NAFTA members and the rest of the world was found to be 135 percent higher from the effects of NAFTA membership alone. Causality is difficult to claim, but the importance of NAFTA member agricultural sectors to world agricultural trade is significant and affected positively by membership in the free trade agreement. Qualitative and quantitative results were similar for trade in processed food products.

Global Markets (Won Koo and CAPTS)

Studies analyzing U.S. agricultural competitiveness in global markets using the most updated time series technique have provided necessary information to improve our region's agricultural competitiveness to decision makers in both public and private sectors. Since the United States exports about 50 percent of agricultural commodities and products produced in the United States, it is very important to analyze factors affecting its competitiveness in the global markets. In addition, a time series model was developed to evaluate the impact of continuously declining U.S. dollar value on U.S. agricultural economy. We found that exchange rates are one of major factors affecting our competitiveness. Our research on the 2007 farm bill using ND representative farm model analyzed the impacts of alternative farm bill proposals on ND agricultural economy. We have worked with ND delegates in Washington (Senators) in formulating the Senate bill. The findings from the above studies have significantly improved our agricultural economy through enhancing farm income.

Highlights of Cooperative Extension Activities

Crop Budgets

Projected crop budgets of major and minor crops for nine geographic regions of North Dakota are used throughout the state by farmers, lenders and educators to make planting decisions and to evaluate the economics of different crop alternatives. The budgets have also been used by consulting firms, agribusiness, and researchers throughout the country and internationally and several positive comments have been received. Agsco-Capital Harvest has stated that the budgets are very valuable and are used in their credit scoring models. ADM, MinnDak, Cargill, and CHS use the budgets when determining bid prices for contracting crops.

Agricultural Trends Database

A database information on over 500 farms was developed and used to generate local, regional and state reports for the North Dakota Farm Business Management Education Program. In addition the records of Red River valley farms enrolled in Minnesota Farm Business management programs were databased to generate the 11th annual combined Minnesota North Dakota Red River Valley Report. These reports provide trends in farm profitability, farm size, farmer age, and farm family living expenses and is used widely to convey farm financial trends.

Farm Transition Planning Workshop

A four-day intensive workshop for multi-generation farm families that are in the process of transitioning to the next session was held.

Crop Opportunities

Numerous county agricultural improvement meetings were held around the state where the theme of the education program was how to deal with the outlook for 2008 as well as comparing the current economic environment on North Dakota farms with the 1970s boom to the 1980s bust. These were multi-disciplinary educational meetings including agronomists, soil specialists, and weed specialists. Approximately 400 farmers attended nine meetings across the state. The locations were Rugby, Drake, Bottineau, Williston, Mohall, Watford City, Crosby, Kenmare, Stanley and Bowbells.

Crop Insurance Conference

The annual crop insurance conference provides information on the latest changes in the industry. Insurance agents receive continuing education credits for this conference. All Extension faculty are involved in organizing this conference.

Agricultural Lenders Conferences

Conferences for agricultural lenders were held in four locations across the state. Approximately 260 lenders from North Dakota, Minnesota and South Dakota attended the four conferences. All Extension faculty are involved in organizing this conference.

Marketing Club Conferences

Marketing and Risk Management workshops were presented with strong educational components. Participants were expected to leave with a working knowledge of marketing, risk and farm management concepts and techniques.

Best of the Best Wheat Schools

This was a series of three full-day schools concentrating on production and marketing of wheat. These schools were sponsored jointly by NDSU Extension Service, the North Dakota Grain Growers and the Minnesota Wheat Producers. Attendance was excellent with over 400 producers. Cost of production and competitiveness of wheat and alternative crops were discussed.

Economics of No-Till verses Conventional Tillage Systems

This was a county meeting sponsored by the Extension Service and the Soil Conservation District. The costs of no-till compared to conventional till for several cropping sequences were discussed.

Annie's Project

The Annie's grant was completed. The 117 women (North and South Dakota) that were taught in the Annie's classes gave great reviews. A majority of these were farm or ranch spouses that may not be legal business partners in the business, but partners in every other sense of the word. They benefited from learning financial, marketing and production aspects of agriculture.

Pasture, Rangeland, Forage Rainfall Index Insurance Pilot Program

The 62 ranchers in western North Dakota were made aware on the Pasture, Rangeland, Forage Rainfall Index Insurance pilot program. A majority of them indicated interest in signing up for this drought insurance. This would benefit insurance agents in the local community and the local economy to have more stable income in volatile North Dakota weather or drought situations.

Irrigation Workshop

These workshops were for beginning and potential irrigators. Aakre discussed the costs of irrigation investment as well as the cost and returns for various crop rotations under irrigation.

Best of the Best Wheat Schools

This was a series of four full day schools concentrating on production and marketing of wheat production. These schools were sponsored jointly by NDSU Extension Service and the North Dakota Grain Growers. Attendance included over 350 producers.

Advanced Crop Advisors Workshop

This is an annual workshop held for crop consultants to update them on the latest developments in crop production and protection. Marginal cost versus marginal return of nitrogen fertilizer on wheat, corn and barley were topics discussed. Attendance was about 70 crop consultants.

Entrepreneurship and Business Retention and Expansion

Kathy Tweeten conducted agritourism workshops in Bottineau and Towner, a workshop on nature based tourism at Marketplace of Ideas in January, and a session on Rural Tourism Facilities and on starting a B&B in Dickinson.

Extension Computer Classes

Andy Swenson and Ron Haugen continued to offer training in “Accounting for Farm, Home and Business,” with workshops offered in Towner, Minot, Cavalier, Cando, Devils Lake, LaMoure, and Lisbon. Andy and Ron led a one-day "Quickbooks" workshop in Watford City.

2. Grants/Contracts/Research

Department of Agribusiness and Applied Economics – AY2007 Grants and Contracts

Investigator(s)	Agency	Project Title	Awarded
Rathge, Richard	USDA/CSREES	Regional Center for Rural Development in North Dakota	\$79,635
Rathge, Richard	Annie E. Casey Foundation	ND Kids Count Continued Support	\$75,000
Leistriz, Larry	DOE/University of North Dakota	Economics of Carbon Sequestration in the PCOR Region	\$47,150
Leistriz, Larry	Great Northern Power Development LP	Socioeconomic Effect of Developing the Great Northern Power Development LP Coal Mine Near South Heart, North Dakota	\$30,602
Leistriz, Larry	Florida Power and Light Co.	Contribution of the Langdon Wind Project to the North Dakota Economy	\$28,200
Leistriz, Larry	DOE/University of North Dakota	Economics of Carbon Sequestration in the PCOR	\$27,692
Leistriz, Larry	ND Agricultural Products Utilization Commission, 2007-2008	Developing a Biomaterials Industry in North Dakota	\$26,500
Shaik, Saleem	USDA/RMA/Mississippi State U	Aquaculture Program Development for Catfish and Trout Crop Pilot Insurance Programs	\$24,787
Schwarzwalter, Kay & R. Rathge	NDSU Development Foundation	Safe Roads to School Pilot Study	\$20,000
Leistriz, Larry	ND Agricultural Products Utilization Commission, 2007-2008	Agronomics, Product Evaluation, and Production Economics of Biofuel Feedstocks in Central and Western North Dakota	\$19,970
Wilson, William	ND Wheat Commission	Market Development and Support	\$18,000
Wilson, William	ND Wheat Commission	Marketing on Variety Basis	\$18,000
Leistriz, Larry	ND Petroleum Council	Contribution of the Petroleum Industry to the ND Economy in 2007	\$17,500
Leistriz, Larry	Underwood Commercial Properties, Inc.	Determining Consumer Shopping Patterns and Preferences in the Underwood, ND Area	\$13,585
Petry, Timothy & R. Haugen	USDA/CSREES/U of Nebraska	Livestock Insurance Education Program for North Dakota	\$11,892
Leistriz, Larry	ND Department of Commerce	Estimating the Economic Contribution of Expanded Livestock Production in Conjunction with North Dakota's Expanding Ethanol Industry	\$8,000
Aakre, Dwight & R. Haugen	USDA/CSREES/U of Nebraska	Pasture, Rangeland, Forage Rainfall Index Insurance Education Program for North Dakota	\$7,940
Lim, Siew Hoon	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	\$7,500
Danielson, Ramona	ND Department of Health	Pram-o-Gram Fact Sheets	\$5,000
Rathge, Richard	Annie E. Casey Foundation	Technical Assistance for North Dakota Kids Count	\$4,425
McKee, Gregory	ND Farmers Union	Analyzing the Financial Performance of North Dakota Agriculture Cooperatives	\$3,763
Leistriz, Larry	Lignite Energy Council	Economic Contribution of the North Dakota Lignite Energy Industry	\$2,500
McKee, Gregory	CHS Foundation	Enhancing the Global Competitiveness of Farmer owned Agribusinesses through a Student and Professional Centered Learning Program	\$1,200
Total:			\$428,286
Average per Grant	\$23,794		

3. Articles/Books/Publications (Calendar Year 2007)

The following list of publications provides an overview of the breadth of research conducted by faculty and staff in the Department of Agribusiness and Applied Economics during 2007.

With the exception of the peer-reviewed journal articles and books, all of these papers can be viewed from the departmental publications website:

<http://www.ext.nodak.edu/homepages/aeddept/aemisc/publist.htm>

Refereed Journal Articles

1. Baek and Koo. "Dynamic Interrelationships between the U.S. Agricultural Trade Balance and the Macroeconomy." *Journal of Agricultural and Applied Economics*. Vol. 39(3)(2007):457-470.
2. Baek, J. 2007. "The J-Curve Effect and the US-Canada Forest Products Trade." *Journal of Forest Economics* 13(4): 245-258.
3. Baek, J., and Won. Koo. 2008. "Identifying Macroeconomic Linkages to U.S. Agricultural Trade Balance." *Canadian Journal of Agricultural Economics* 56(1): 63-77.
4. Bullock, David. W., William W. Wilson, and Bruce L. Dahl. 2007. "Strategic Use of Futures and Options by Commodity Processors." *International Review of Economics and Finance*, 16(4).
5. DeVuyst, E.A., D.K. Lambert and M. Bauer, 2007. "Genotyping: What Applied Economists Should Know," *Western Economics Forum*, Fall.
6. DeVuyst, E.A., J. Bullinger, M. Bauer, P. Berg and D. Larson, 2007. "An Economic Analysis of Genetic Information: Leptin Genotyping in Fed Cattle," *Journal of Agricultural and Resource Economics* 32(2): 291-305.
7. DeVuyst, Eric A., David K. Lambert, and Marc Bauer. "Genotyping: What Applied Economists Should Know." *Western Economics Forum* 6(Fall 2007):35-45.
8. DeVuyst, E.A. and P.V. Preckel, 2007. "Gaussian Cubature: A Practitioner's Guide," *Mathematical and Computer Modelling* 45:787-794.
9. Friedrichsen, M., W. Nganje, and C. Gustafson. "Marginal Impact of Sales Consultant Visits and Financing Opportunities on the Adoption of Variable Rate Fertilizer Application" *Agricultural Finance Review* 67:2(Fall 2007):295-310.
10. Hearne, R. 2007. "Evolving Water Management Institutions in the Red River Basin." *Environmental Management*. 40(6):842-852.
11. Hearne, R. 2007. "Water Markets as a Mechanism for Intersectoral Water Transfers: The Elqui Basin in Chile." *Paddy and Water Environment*. 5:223-227.
12. Hodur, Nancy M., and F. Larry Leistritz. 2007. Estimating the Economic Impact of Event Tourism: A Review of Issues and Methods. *Journal of Convention and Event Tourism* 8 (4): 63-79.
13. Koo and Uhm. Effects of Dumping vs. Anti-dumping Measures: the U.S. Trade Remedy Laws Applied to Wheat Imports from Canada. *Journal of World Trade*. Volume 41(6)(2007):1163-1184.
14. Koo and Zhuang. The Role of Exchange Rate on U.S.-Sino Bilateral Trade. *Contemporary Economic Policy*. Vol. 25, No. 3(2007):362-373.
15. Landblom, D.G., G. P. Lardy, R. Fast, C. J. Wachenheim, and T. A. Petry. Effect of Hay Feeding *Scientist* 23(3, June 2007): 246 – 252.

16. Mattson and Koo. Effects of Bovine Spongiform Encephalopathy (BSE) Outbreaks on U.S. Cattle and Beef Prices. *Review of Agricultural Economics*, Vol. 29(4):734-748. 2007.
17. McKee, G., F. Zalom. R. Goodhue. 2007. "Measuring the Effect of the Greenhouse Whitefly on California Strawberries." *HortScience* 42(2):280-284.
18. Miljkovic, Dragan and Daniel Mostad: "Obesity and Low-carb Diets in the United States: A Herd Behavior Model," *Agribusiness: An International Journal* (2007), 23(3), 421-434.
19. 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* 30(2)
20. 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
21. Miljkovic, Dragan: "U.S. and Canadian Livestock Prices: Market Integration and Trade Dependence," *Applied Economics* 41
22. Nganje, William, Bruce L. Dahl, William W. Wilson, Mounir Siaplay, and Andrew Lewis. 2007 "Valuing Private Sector Incentives to Invest in Food Security Measures: Quantifying the Risk Premium for Alternative Tracking System" *Journal of International Agricultural Trade and Development* Volume 3(2), 2007.
23. Sarmiento, C., and William W. Wilson. 2007 "Spatially Correlated Exit Strategies in the Baking Industry." *Applied Economics*, Volume 39 (4):441-448, March 2007.
24. Spann, Karemera, Sweat, and Koo. Mexican agricultural exports: effect on trade flows and prices in the USA under NAFTA. *World Review of Entrepreneurship, Management and Sustainable Development*. Vol. 4, No. 1(2007)46-58.
25. Tweeten, Kathleen, Larry Leistritz, and Nancy Hodur. 2007. Growing Rural Tourism Opportunities, *Journal of Extension*
26. Wachenheim, C.J. 2007. Growing and Maintaining Viable Student Chapters of Professional Organizations: The Case of the National AgriMarketing Association. *NACTA Journal* 51(2): 60-64.
27. Wachenheim, Cheryl J., David K. Lambert, and Tamara VanWechel. "Willingness to Pay for Genetically Modified Foods under Different Information Scenarios." *Journal of Food Product Marketing* 13(2007):57-77.
28. Wilson, William W., Bruce L. Dahl, and D. Demcey Johnson. 2007. "Quality Uncertainty and Challenges to Wheat Procurement." *Canadian Journal of Agricultural Economics*, (55): 315-326.
29. Wilson, William W., Eric J. Jabs, and Bruce L. Dahl. 2007 "Optimal Supplier Testing and Tolerance Strategies for Genetically Modified (GM) Wheat." *Agricultural Economics* 36(2007): 39-48, January.
30. Wilson, William W., William E. Nganje, and Cullen R. Hawes. 2007 "Value-at-Risk in Bakery Procurement." *Review of Agricultural Economics*, 2007. 29(3):581-597.
31. Wilson, William, B. Maxwell, and B. Dahl. 2007 "Grower Response to Contracts and Risk in Genetically Modified (GM) Crops." *Journal of Agricultural and Resource Economics*, 22(1): 135-153. April.

Books and Book Chapters

1. William W. Wilson, Won W. Koo, Richard D. Taylor, Bruce L. Dahl, "Fundamental Factors Affecting World Grain Trade in the Next Two Decades" *EVOLVING EXPORT SCENARIO VOL.-II* ICFAI Research Centre, October 2007.
2. Nganje, William, Andrew Lewis, and William Wilson. "Optimal Investment in Mitigating Agro-terrorism Risk," Book Chapter, Guidelines for Agro-terrorism Preparedness, Submitted July 2007, John Wiley & Sons, Inc.
3. Zhuang, Renan and Won W. Koo. Implications of the U.S.-Korea Free Trade Agreement: A General Equilibrium Approach, A chapter of a book titled "Static and Dynamic Consequences of KORUS FTA, published by Korea Economic Institute of America, Washington DC, 2007.

Agribusiness and Applied Economics Reports

1. No 624. *The Financial Performance of North Dakota Agricultural Cooperatives*, McKee, Gregory
2. No 623. *Final Exam Scores in Introductory Economics Courses: Effect of Course Delivery Method and Proctoring*, Wachenheim, Cheryl J.
3. No 622. *Nature of Dynamic Relationships between Farm Real Estate Values and Federal Farm Programs*, Shaik, Saleem, Dragan Miljkovic
4. No 621. *Comparison of Perception of Risk and Willingness to Consume GM Foods*, Wachenheim, Cheryl J., William E. Nganje, William C. Lesch
5. No 620. *Valuing Private Sector Incentives to Invest in Food Protection Measures in the Milk and Green Onion Sectors*, Lewis, Andrew, William E. Nganje, Jeremy W. Mattson, Dragan Miljkovic, William W. Wilson
6. No 619. *Implications of the U.S.-Korea Free Trade Agreement for Agriculture and other Sectors of the Economy*, Zhuang, Renan, Jeremy W. Mattson, Won W. Koo
7. No 618. *2007 North Dakota Agricultural Outlook: Representative Farms, 2007-2016*, Taylor, Richard D., Won W. Koo, Andrew L. Swenson
8. No 617. *Economic Analysis of Using Soybean Meal as a Mushroom Growing Substrate*, Fewell, Jason, Cole Gustafson
9. No 616. *Offsetting Behavior and the Benefits of Food Safety Policies*, Nganje, William, Dragan Miljkovic, Daniel Voica, Benjamin Onyango
10. No 615. *Results of the North Dakota Land Valuation Model for the 2007 Agricultural Real Estate Assessment*, Aakre, Dwight G., Harvey G. Vreugdenhil
11. No 614. *2007 Outlook of the U.S. and World Sugar Markets 2006-2016*, Koo, Won W., Richard D. Taylor
12. No 613. *Opportunities and Constraints to Expanding Value-added Beef Production in the Northern Great Plains*, Hodur, Nancy M., F. Larry Leistritz, Daniel J. Nudell, Clint Clark, Duane Griffith, Tammie Jensen
13. No 612. *Learning from Assessment: Effect of Changes in an Online Course on Students' Perceptions and Performance*, Wachenheim, Cheryl J.
14. No 611. *Identifying Market Preferences for High Selenium Beef*, Jovde, Scott C., Cheryl J. Wachenheim, Robert Hearne, William Nganje

15. No 610. *2007 Outlook of the U.S. and World Wheat Industries, 2006-2016*, Koo, Won W., Richard D. Taylor
16. No. 609. *Northern Great Plains Beef Production: Production and Marketing Practices of Cow-Calf Producers*, Hodur, Nancy M., F. Larry Leistritz, Daniel J. Nudell, Clint Clark, Duane Griffith, Tammie Jensen
17. No. 608. *Financial Characteristics of North Dakota Farms 2005-2006*, Swenson, Andrew L.
18. No. 607. *Determinants of the U.S. Trade Balance in Consumer Oriented Agricultural Products*, Zhuang, R., Won W. Koo, Jeremy W. Mattson
19. No. 606. *Structure of the Canola and Biodiesel Industries*, Mattson, Jeremy W., William W. Wilson, Christopher Duchsherer
20. No. 605. *Grain Shipments on the Mississippi River System: A Long-Term Projection*, Wilson, William W., Bruce L. Dahl, Richard D. Taylor, Won W. Koo
21. No. 604. *Spatial Competition and Ethanol Plant Location Decision*, Sarmiento, Camilo, William W. Wilson
22. No. 602. *Food Recalls and Food Safety Perceptions: The September 2006 Spinach Recall Case*, Onyango, Benjamin, Dragan Miljkovic, William Hallman, William Nganje, Sarah Condry, and Cara Cuite
23. No. 601. *Stated Preferences for Ecotourism Alternatives On the Standing Rock Sioux Indian Reservation*, Hearne, Robert R., and Sheldon Tuscherer
24. No. 600. *The Role of Productivity Growth and Farmers' Income Protection Policies in the Decline of Relative Farm Prices in the United States*, Miljkovic, Dragan, Hyun J. Jin, and Rodney Paul.
25. No. 599-S. *Economic Contribution of the Petroleum Industry to North Dakota*, Bangsund, Dean, F. Larry Leistritz
26. No. 599. *Economic Contribution of the Petroleum Industry to North Dakota*, Bangsund, Dean, F. Larry Leistritz
27. No. 598. *Longer-Term Forecasting of Grain Flows and Delay Costs on the Mississippi River*, Wilson, William W., Eric A. DeVuyst, Richard D. Taylor, Bruce L. Dahl, and Won W. Koo
28. No. 597. *The Contribution of North Dakota's Community Pharmacies to the State's Economy*, Hodur, Nancy M., F. Larry Leistritz
29. AAE 07001. *Biorefineries Using Agricultural Residue Feedstock in the Great Plains*, Leistritz, F. Larry, Nancy M. Hodur, Donald M. Senechal, Mark D. Stowers, William F. McDonald, Chris M. Saffron
30. AAE 07002. *North Dakota Lignite Energy Industry's Contribution to the State Economy for 2006 and Projected for 2007*, Coon, Randal C., F. Larry Leistritz
31. AAE 07003. *Base Revenue Protection and Revenue Countercyclical Programs for Corn in North Dakota*, Aakre, Dwight G., Ronald H. Haugen, Andrew L. Swenson
32. AAE 07004. *Base Revenue Protection and Revenue Countercyclical Programs for Spring Wheat in North Dakota*, Aakre, Dwight G., Ronald H. Haugen, Andrew L. Swenson
33. AAE 07005. *Base Revenue Protection and Revenue Countercyclical Programs for Soybeans in North Dakota*, Aakre, Dwight G., Ronald H. Haugen, Andrew L. Swenson

Policy Briefs

Center for Agricultural Policy and Trade Studies

1. No. 13. (March 2007): *An Analysis of the Permanent Emergency Agricultural Assessment*, by Richard D. Taylor and Won. W. Koo.

2. No. 14 (April 2007): Analysis of the USDA's 2007 Farm Bill Proposal by Richard D. Taylor and Won W. Koo.
3. No. 15 (August 2007): An Analysis of the U.S. House of Representative's 2007 Farm Bill, by Richard D. Taylor and Won W. Koo
4. No. 16 (September 2007): A Comparison Between Senator Harkin's Proposal and the 2007 House Farm Bill, by Richard D. Taylor and Won W. Koo
5. No. 17 (October 2007): Analysis of the State Level Revenue Counter-Cyclical Program: A Comparison With Other Proposals, by Richard D. Taylor and Won W. Koo

North Dakota State Data Center Publications

1. Rathge, Richard, Ramona Danielson, Karen Olson, and Kay Schwarzwalter. 2007. 2007 Housing Demand Analysis for Wimbledon, North Dakota. North Dakota State Data Center, North Dakota State University, Fargo: North Dakota. (53pp)
2. Rathge, Richard, W. 2007. The Economic Impact of the Senior Population on a State's Economy: The Case of North Dakota. North Dakota State Data Center, North Dakota State University, Fargo: North Dakota. (38pp.)
3. Nikle, Jordyn, Kay Schwarzwalter, Ramona Danielson, Kendra Erickson, and Richard Rathge. 2007. Environmental Health Survey for Central and Western Minnesota: June 2007 Survey Results. North Dakota. North Dakota State Data Center, North Dakota State University, Fargo: North Dakota. (109pp)
4. Danielson, Ramona, Richard Rathge, and Karen Olson. 2007. 2006 Wage Comparability Study: North Dakota Head Start and Early Head Start. North Dakota. North Dakota State Data Center, North Dakota State University, Fargo: North Dakota. (20pp)
5. Erickson, Kendra, Ramona Danielson, Richard Rathge. 2007. North Dakota Strategic Planning Community Assessment: 2007 Survey Results. North Dakota State Data Center, North Dakota State University, Fargo: North Dakota. (95pp)
6. Danielson, Ramona, Kay Schwarzwalter, and Richard Rathge. 2007. MSUM Secondhand Smoke Study of Students and Faculty/Staff. North Dakota. North Dakota State Data Center, North Dakota State University, Fargo: North Dakota. (91pp)
7. Danielson, Ramona, Kay Schwarzwalter, and Richard Rathge. 2007. MSCTC-Moorhead Secondhand Smoke Study of Students and Faculty/Staff. North Dakota. North Dakota State Data Center, North Dakota State University, Fargo: North Dakota. (93pp)
8. Nikle, Jordyn, Ramona Danielson, Karen Olson, and Richard Rathge. 2007. North Dakota Strategic Planning Profile. North Dakota State Data Center, North Dakota State University, Fargo: North Dakota. (60pp)
9. **Economic Brief**, (eds., Karen Olson and Richard Rathge), North Dakota State Data Center, North Dakota State University, Fargo: North Dakota (Volume 16)
10. **Population Bulletin**, (eds., Karen Olson and Richard Rathge), North Dakota State Data Center, North Dakota State University, Fargo: North Dakota (Volume 23)

Extension/Outreach Publications

1. Aakre, Dwight. Custom Farm Work Rates on North Dakota Farms, 2007, by North Dakota Farming Regions. NDSU Extension Service Circular EC-499 (Revised), Fargo, ND.
2. Aakre, Dwight. What is the Value of a Standing Corn Crop for Silage? NDSU Extension Service Circular EC-1343, Fargo, ND.

3. Haugen, Ron, Tim Petry, George Flaskerud and Dwight Aakre. Plotting a Course 2007: Short-term and Long-term Agricultural Planning Prices for North Dakota 2007. NDSU Extension Service Circular EC-1090 (Revised), Fargo, ND.
4. Nowatzki, John, Andrew Swenson and Dennis P. Wiesenborn. Small-scale Biodiesel Production and Use. NDSU Extension Service Circular AE-1344, Fargo, ND.
5. Aakre, Dwight. Projected Budgets for Irrigated Crops, Western North Dakota – January 2007. NDSU Extension Service Farm Management Planning Guide. Fargo, ND.
6. Aakre, Dwight. Projected Budgets for Irrigated Crops, Central North Dakota – January 2007. NDSU Extension Service Farm Management Planning Guide, Fargo, ND.
7. Aakre, Dwight. Projected Budgets for Irrigated Crops, Eastern North Dakota – January 2007. NDSU Extension Service Farm Management Planning Guide, Fargo, ND.
8. Haugen, Ron, Andrew Swenson and Roger Ashley. Projected No-till 2007 Crop Budgets Southwest North Dakota. NDSU Extension Service Farm Management Planning Guide, Fargo, ND.
9. Swenson, Andrew, Brad Brummond and Ron Haugen. Projected 2007 Organic Crop Budgets, South Central North Dakota. NDSU Extension Service Farm Management Planning Guide, Fargo, ND.
10. Swenson, Andrew and Ron Haugen. Projected 2008 Crop Budgets, East Central North Dakota. NDSU Extension Service Farm Management Planning Guide, Fargo, ND.
11. Swenson, Andrew and Ron Haugen. Projected 2008 Crop Budgets, North West North Dakota. NDSU Extension Service Farm Management Planning Guide, Fargo, ND.
12. Swenson, Andrew and Ron Haugen. Projected 2008 Crop Budgets, North Central North Dakota. NDSU Extension Service Farm Management Planning Guide, Fargo, ND.
13. Swenson, Andrew and Ron Haugen. Projected 2008 Crop Budgets, North East North Dakota. NDSU Extension Service Farm Management Planning Guide, Fargo, ND.
14. Swenson, Andrew and Ron Haugen. Projected 2008 Crop Budgets, North Valley North Dakota. NDSU Extension Service Farm Management Planning Guide, Fargo, ND.
15. Swenson, Andrew and Ron Haugen. Projected 2008 Crop Budgets, South West North Dakota. NDSU Extension Service Farm Management Planning Guide, Fargo, ND.
16. Swenson, Andrew and Ron Haugen. Projected 2008 Crop Budgets, South Central North Dakota. NDSU Extension Service Farm Management Planning Guide, Fargo, ND.
17. Swenson, Andrew and Ron Haugen. Projected 2008 Crop Budgets, South East North Dakota. NDSU Extension Service Farm Management Planning Guide, Fargo, ND.
18. Swenson, Andrew and Ron Haugen. Projected 2008 Crop Budgets, South Valley North Dakota. NDSU Extension Service Farm Management Planning Guide, Fargo, ND.
19. Petry, T.A. Commodity Planning Price Projections for 2007. *The Ranch Hand*, 14(1). NDSU Extension Service, Fargo, ND.
20. Petry, T.A. Early 2007 Northern Plains Weather Has Already Affected 2007 Cattle Market. *The Ranch Hand*, 14(2). NDSU Extension Service, Fargo, ND.
21. Petry, T.A. Weather Continues to Restrict Cattle Cycle Expansion. *The Ranch Hand*, 14(9). NDSU Extension Service, Fargo, ND.
22. Petry, T.A. Marketing and Price Risk Management. 2007 Dairy Cow College Proceedings. NDSU Extension Service, Fargo, ND.
23. Landbloom, D.G., C.J. Wachenheim, and T.A. Petry. Effect of yeast and enzyme alternatives in field pea and co-product-based natural beef production. Dickinson REC Annual Report – Beef Section.

4. Presentations

1. Allen, Albert J., Saleem Shaik, Albert E. Myles and Osei Yeboah "Analysis of Trends in Food Import Refusals in the United States" 2007 Food Distribution Research Society (FDRS), New Orleans, Louisiana on November 3-7, 2007.
2. Danielson, Helen. 2007. *The Well-Being of American Indian Children in North Dakota*, Presentation at the North Dakota Association of Extension Agents Conference, Fargo, ND. March 28.
3. DeVuyst, C. S. 2007. "Overview of the 1998 and 2001 Surveys." *Tracking the Status and Concerns of Agricultural Economists* Annual Meetings of the American Agricultural Economics Association, Portland, OR, July 30.
4. DeVuyst, C. S. 2007. "Perspective of Current Chairperson." *Charting the Future of CWAE* Annual Meetings of the American Agricultural Economics Association, Portland, OR, July 30.
5. DeVuyst, C. S. 2007. Organizer and Moderator of Session *Advancing into Administration and Management* Annual Meetings of the American Agricultural Economics Association, Portland, OR, July 30.
6. Gustafson, C. and C.J. Wachenheim. When do students work? 2007 Beyond Boundaries. Grand Forks, North Dakota, October 4-5.
7. Gustafson, Cole. "Assessment of Entry-Level Marketing Classes" NACTA Annual Conference, Urbana, Ill, June 20-22, 2007
8. Gustafson, Cole. "Overview of ND Agriculture" NGPlains Workshop, Fargo, June 20, 2007
9. Gustafson, Cole. "Annie's Project – Strategic Planning" Feb. 26, Feb 27, Feb 28, Feb. 29
10. Gustafson, Cole. "Bio-Fuels: A Vision of the Future" Colfax (Feb. 15), Devils Lake (Feb. 16), Bismarck (Feb. 19), and Stanley (Feb. 20)
11. Gustafson, Cole. "Ethanol and Impact on Livestock Industry" Webinar to Ext. Agents in MT, ND, SD, and WY, Sept. 10, 2007
12. Gustafson, Cole. "Ethanol Implications for the Region" West Fargo Exchange Club, March 13, 2007
13. Gustafson, Cole. "Ethanol Outlook" ND – Upham (Feb. 26), Hettinger (Feb 27), Ellendale (Feb 28), SD – Watertown (Mar 1), Mitchell, (Mar 2), MT – Miles City (Jan 29), Wolf Point (Jan 30), Browning (Jan 31), Lewistown (Feb. 1), WY – Cokeville (Mar. 22), Pine Bluff (Apr. 7)
14. Gustafson, Cole. "Ethanol Risks" CAFSNR BioMass Working Group, April 11, 2007
15. Gustafson, Cole. "Ethanol Risks" poster NDSU BioEnergy Conference, May 17, 2007
16. Gustafson, Cole. "Fueling the Future" NDSU Agricultural Technology Expo, Fargo, Feb. 5, 2007
17. Gustafson, Cole. "Global Impacts of U.S. Ethanol Production" Midwest Shippers Conference, Fargo, Sept. 17, 2007
18. Gustafson, Cole. "Macro Update for Livestock Producers" Webinar to Ext. Agents in MT, ND, SD, and WY, June 11, 13, 18 and 20, 2007
19. Gustafson, Cole. "NDSU – Fostering Specialty Markets and Production" Booth and Poster, Midwest Shippers Conference, Fargo, Sept. 17, 2007
20. Gustafson, Cole. "Overview of Ethanol and Biodiesel Industries" NCI, Fargo, Sept. 26-27, 2007
21. Gustafson, Cole. "Pea Fractionation" NDSU BioEnergy Conference, May 17, 2007

22. Gustafson, Cole. "Programs in NDSU CAFSNR" Morris Area Career and Technical Education Night, Morris, MN Nov. 15, 2007
23. Gustafson, Cole. "Role of an Agribusiness and Applied Economics Department in the Land Grant Institution of the 21st Century" Ag. Bus. And App. Econ. Dept., Fargo, ND May 9, 2007
24. Gustafson, Cole. "Sandwiching a Double Oral Auction" NACTA Annual Conference, Urbana, Ill, June 20-22, 2007
25. Gustafson, Cole. "When do Online Students Work?" selected poster, AAEA annual meeting, Portland WA, July 23-26, 2007
26. Gustafson, Cole. "When do Students Take Online Exams?" 6th Annual Beyond Boundaries Conference, Univ. of N. Dakota, Grand Forks, Oct. 5, 2007.
27. Gustafson, Cole. "Where is the Economy Headed" Agricultural Lenders Conferences, ND – Grand Forks (Oct. 23), Minot (Oct. 24), Bismarck (Oct. 25), Fargo (Nov. 1)
28. Hearne, Robert. Assessing the Incentives for Hazardous Material Transportation. (M. Zimanski, and E. DeVuyst) 4th International Seminar of Logistics for Agribusiness. March 2007. Piracicaba (SP), Brazil.
29. Hearne, Robert. Characteristics of Effective Local Water Management Organizations in the Red River Basin (with Craig Kritsky). International Water Institute Third International Water Conference- 2007. Grand Forks, ND. March, 2007
30. Hearne, Robert. Identifying Market Preferences for High Selenium Beef (with C. Wachenheim, S. Hovde, and W. Nganje) AAEA Annual Meetings Portland, July 2007.
31. Hodur, Nancy M., and F. Larry Leistritz. 2007. *Assessing the Economic Development Potential of Nature Tourism*. Association of University Bureaus of Business and Economic Research, Pensacola, FL, Oct. 13-16.
32. Koo, Won. Analysis of the U.S. House bill for the 2007 Farm Policy, Congressman Pomeroy's hearing on the 2007 farm bill and Agricultural appropriates, Fargo, ND, August 23, 2007.
33. Koo, Won. Analysis of the U.S. House Proposal for the 2007 Farm Policy, Senator Conrad's Hearing on the 2007 Farm Bill, Jamestown, August 9, 2007.
34. Koo, Won. Analysis on the Korea-U.S Free trade Agreement, An international conference organized by Korean Economic Institute and Peterson Institute, Washington D.C. June, 2007.
35. Koo, Won. Economic growth under globalization: evidence from panel data analysis, AAEA, Portland, Oregon, July 31.
36. Koo, Won. Economic impacts of bio-technology on the World agriculture, Korea University, Seoul, Korea, November 7, 2007.
37. Koo, Won. Impacts of corn based ethanol production on the world corn industry, Chung-Ang University, Seoul, Korea, November 6, 2007.
38. Koo, Won. Impacts of the Korea – U.S. Free Trade Agreement on Bilateral trade between the two countries: trade creation and diversion effects of the agreement. WEAI, Seattle, Washington, July 2, 2007
39. Koo, Won. Implications of growth in China for the U.S. and other countries, AAEA, Portland, Oregon, July 31.
40. Koo, Won. The growing U.S. trade deficit in consumer-oriented agricultural and food products, AAEA, Portland Oregon, July 31.
41. Leistritz, F. Larry "Developing a Biomaterials Industry in North Dakota," presentation at *Marketplace*, Fargo, January 17, 2007.

42. Leistriz, F. Larry “Developing a Biomaterials Industry in North Dakota,” presentation to North Dakota Agricultural Products Utilization Commission, Grafton, May 17, 2007.
43. Leistriz, F. Larry “Developing a Biomaterials Industry in North Dakota,” presentation for the NDSU BioOpportunities Symposium on *Biorefineries: Mining Biomass for Biofuels, Biochemicals, and Biomaterials*, Fargo, October 12, 2007.
44. Leistriz, F. Larry “Economic Contribution of the North Dakota Petroleum Industry,” presentation to the ND Oil and Gas Research Council, Bismarck, June 26, 2007.
45. Leistriz, F. Larry “Economic Contribution of the North Dakota Petroleum Industry,” presentation to the ND Petroleum Council, Medora, September 20, 2007.
46. Leistriz, F. Larry “Economic Contribution of the North Dakota Petroleum Industry,” ND Industrial Commission, Bismarck, October 17, 2007
47. Leistriz, F. Larry “Economic Development Implications of a Biomaterials Industry in North Dakota,” NDSU BioOpportunities Symposium on *Biorefineries: Mining Biomass for Biofuels, Biochemicals, and Biomaterials*, Fargo, October 12, 2007
48. Leistriz, F. Larry “The Potential Biorefinery Industry in North Dakota,” testimony in support of Senate Bill 2288, Senate Ag. Committee, Bismarck, January 25, 2007.
49. Leistriz, F. Larry, Donald M. Senechal, and Nancy M. Hodur. 2007. *Energy and Products from Agricultural Biomass: Prospects and Issues*. International Association for Impact Assessment 27th Annual Conference, Seoul, Korea, June 5-7.
50. Leistriz, F. Larry, Nancy M. Hodur, Donald M. Senechal, Mark D. Stowers, Darold McCalla, and Chris M. Saffron. 2007. *Biorefineries Using Agricultural Residue Feedstock in the Great Plains*. Western Regional Science Association, Newport Beach, CA, February 21-24, 2007.
51. McKee, G.J “Financial Status of North Dakota Agricultural Cooperatives,” 11/20/07, Lankin, ND
52. McKee, G.J. “Financial status of North Dakota agricultural cooperatives,” Bismarck, ND (9/20/07), Jamestown, ND (9/25/07)
53. McKee, G.J. “How to Start a Cooperative”, 7/19/07, Fargo, ND
54. McKee, G.J. “Report of Quentin Burdick Center for Cooperatives”, NDAREC annual meeting, 11/8/07, Bismarck, ND
55. McKee, G.J. “Steppin’ Out” North Dakota Farmers Union Conference Bismarck, ND, 1/27/07.
56. McKee, G.J. and D. Miljkovic. “Data Aggregation and Information Loss.” American Agricultural Economics Association, July 29-August 1, 2007. Portland, OR.
57. McKee, Greg and Dragan Miljkovic: “Data Aggregation and Information Loss,” (Selected Paper) AAEA Annual Meetings, July 28-31, 2007, Portland, OR.
58. Miljkovic, Dragan and Renan Zhuang: “The Exchange Rate Pass-through into Import Prices: The Case of Japanese Meat Imports,” AAEA Annual Meetings, July 28-31, 2007, Portland, OR.
59. Miljkovic, Dragan: “The Pitfalls of Transition to Markets.” Corvinus University at Budapest, Hungary. September 2007.
60. Miljkovic, Dragan: “The Pitfalls of Transition: Crowding Out the ‘National Virtues’,” (Invited Paper) Joint Conference on Agriculture in Transition Economies of the International Association of Agricultural Economics (IAAE) and the European Association of Agricultural Economics (EAAE), September 5-8, Budapest, Hungary.

61. Nganje, William, Dragan Miljkovic, and Benjamin Onyango: "Is there any Evidence of Dominant Offsetting Behavior in Food Safety?" (Organized Symposium Paper) AAEA Annual Meetings, July 28-31, 2007, Portland, OR.
62. Onyango, Benjamin, Dragan Miljkovic, William Hallman, William Nganje, Sarah Coundry, and Cara Cuite: "Food Recalls and Food Safety Perceptions: The September 2006 Spinach Recall Case," AAEA Annual Meetings, July 28-31, 2007, Portland, OR.
63. Rathge, Richard. 2007. "The Role of the North Dakota Kids Count Program in Research and Education," State Board of Agricultural Research and Education (SBARE), Bismarck, ND. Nov. 9.
64. Rathge, Richard. 2007. *Making Kids Count: A University Based Perspective*, International Child Indicators Conference, Chicago, IL. June 27.
65. Saleem Shaik, Victor Ofori-Boadu, Albert J. Allen, and Shawn Wozniak, "Bilateral Trade in Textiles and Apparel in the U.S. under the Carib-bean Basin Initiative: Gravity Model Approach," 2007 Domestic and Trade Impacts of U.S. Farm Policy: Future Directions and Chal-lenges Conference held in November 15-16, 2007, Holiday Inn Capitol/American Farm Bureau Federation, Washington, DC.
66. Siew Hoon Lim, J.M. Bowker, S. Rideout-Hanzak, K. Cordell, C. Johnson, and G.T. Green. "Public Opinion on Wildland Fire and Fire Risk: An Examination of Socio-economic Factors." ISSRM 2007, 13th International Symposium on Society & Resource Management, Park City, Utah, June 17 - 21, 2007.
67. Wachenheim, C.J. and Jon Anderson. Comparing acceptance of GM and organic products and processes. WERA-72 Annual Meeting. Las Vegas, Nevada, June 17-19, 2007.
68. Wachenheim, C.J. Assessment of our entry-level agricultural marketing class; what influences their learning? NACTA 53rd Annual Conference. Urbana-Champaign, Illinois, June 20-22, 2007.
69. Wachenheim, C.J. Can online students perform in the classroom? 2007 Beyond Boundaries. Grand Forks, North Dakota, October 4-5, 2007.
70. Wachenheim, C.J. Marketing opportunities for high-selenium products. Hettinger Experiment Station Field Days, Functional Foods, Hettinger, North Dakota, January 25, 2007.
71. Wachenheim, C.J. Sandwiching a double oral auction successful at improving student learning. NACTA 53rd Annual Conference. Urbana-Champaign, Illinois, June 20-22, 2007.
72. Wachenheim, C.J. Teaching Tidbit, Best Teaching Practices for Enhanced Learning. North Dakota State University, Fargo, North Dakota, 15 August 2007.
73. Wachenheim, C.J. The ethical choice; A case study in teaching agribusiness. WERA-72 Annual Meeting. Las Vegas, Nevada, June 17-19, 2007.
74. Wachenheim, C.J., S. Hovde, R. Hearne, and W. Nganje. Identifying market preferences for high selenium beef. AAEA/WAEA/CASS joint annual meeting, Portland, Oregon, July 29 – August 1, 2007.
75. Wilson, William. ADM/GRUMA– Hard Red Spring Wheat Trading and Logistics, NCI, Aug 27, 2007
76. Wilson, William. AgCountry Corn Days, Longer Term Factors Impacting US Agriculture and Implications for Growers, January 17, 2007COE Agbiotechnonoly to the ND Empower Commission, Oct 31, 2007
77. Wilson, William. AgCountry Marketing Day. Soybean Outlook and Challenges January 17th, 2008 Fargo,

78. Wilson, William. Barilla Board of Directors, Durum: Risk management and Purchasing Strategies, November Nov 19 videotaped presentation.
79. Wilson, William. BNSF Ag Shippers Summit, Grain Flows, Exports, Ethanol and Biotechnology, August 29

80. Wilson, William. Center of Excellence on AgBiotechnology Oilseeds, to the ND to the Government Operations Div (Rep. A. Carlson) Committee, House Conference Room Brynhild Haugland Room March 13, 2007
81. Wilson, William. Contracting Strategies for EU Traceability Requirements To the GMCC 3rd International Conference on Coexistence between Genetically Modified (GM) and non-GM Based Agricultural Supply Chains Nov 20, 2007 Seville
82. Wilson, William. DDGS short- course Oct. 16-19. DDG's Supply, Demand and The Longer-Term Outlook, NCI.
83. Wilson, William. *Durum pricing and risk strategies* to the International Pasta Organisation (I.P.O.) - World Pasta Day 2007, International Scientific Colloquium, Mexico City, 25 October 2007
84. Wilson, William. Ethanol Developments and Biotechnology to the AgCountry Board of Directors, Oct 23, 2007
85. Wilson, William. Future of Monopolies and Durum Marketing, to the County Representative Annual Meeting, Dec 18-19, Fargo, program titled ND Wheat: Growing to Feed the World.
86. Wilson, William. Impacts of Ethanol and Biotechnology in the World Grain Markets, to the International Rice Congress of the Americas 2007, May 16, 2007. Cancun, Mexico
87. Wilson, William. *Introducing Biotech Traits in a Market with Segments and Segregation Cost: Challenges and Opportunities*, to International Workshop/ThinkTank Issues in Development and Adoption of Genetically Modified Wheats April 23, 2007 Department of Primary Industries and LaTrobe University Melbourne, Vic
88. Wilson, William. Logistics and Grain Trading, special seminar sponsored by the White Commercial Corporation, NCI, Fargo, Dec 4, 2007
89. Wilson, William. Longer Term Grain Flows, to the *To the Panama Canal Executive Internal Conference*, January 25, 2007
90. Wilson, William. Longer-Term Forecasting of Commodity Flows on the Mississippi River: Application to Grains and World Trade—models and results. Presentation to the Navigation Economic Technologies (NETS) Grain Forecast Modeling and Scenarios Workshop, Feb 24-15, 2007, St Louis, Mo.
91. Wilson, William. *Marketing mechanisms (segregation, testing, traceability and contracting) to facilitate GM wheats*, to the International Workshop/Think-tank, Issues in Development and adoption fo Genetically Modified Wheats, April 23-24, 2007, La Trobe University, Melbourne Australia
92. Wilson, William. Minot Area Development Corporation, hosted by President Chapman. Role of NDSU in Agbiotechnology and Oilseeds Development, Dec 12, 2007.
93. Wilson, William. NDSU Biomass-Biofuels Forum, Feb 22, 2007
94. Wilson, William. Nippon flour mills. NCI, October 22
95. Wilson, William. North Dakota Legislative Council, Budget Section, NDSU Center of Excellence Oilseed Development II, Oct 30, 2007

96. Wilson, William. Procurement Strategies to Improve Quality Consistency in Wheat Shipments, Keynote Plenary Speech to the International Association (Conference) on Cereals and Cereals Products: Quality and Safety New Challenges of World Demand Rosario, Argentina Sept 24, 2007
97. Wilson, William. Tunisia...Grain Marketing, Risk Mgmt and Liberalization, to the Tunis Government, Sept 6-8, 2007, Tunis.
98. Wilson, William. UGPTI Seminar, Oct 31, 2007 The ACE Grain Flow Model: Model, Results and Discussions
99. Wilson, William. *Welfare Implications for the Introduction of GM Wheat; Challenges and Opportunities*, International Workshop/Think-tank, Issues in Development and adoption of Genetically Modified Wheat, April 23-24, 2007, La Trobe University, Melbourne Australia.

5. Technology Transfer

Ongoing economic analysis in the department assisting the development of commercialization and/or product transfer includes Larry Leistritz's work with MBI on commercialization of the process to convert crop residues to industrial inputs, including nanowhiskers, chemicals, and fuels.

Bill Wilson is the Director of the Center of Excellence in Agbiotechnology. Center research and technology transfer focuses on the development of unique oilseed traits through biotechnology that have potential as biodiesel, biofuels, lubricants, health care, and food products. Short term focus is on canola based biodiesel, but longer term objectives include development of specialty oil traits and non-food uses of soybean and other oil crop oils. The Center is a partnership of several major agribusiness firms, the state of North Dakota, and North Dakota State University.

C. OUTREACH

1. Professional Service

Several faculty members occupy national or regional positions in professional organizations. Cheryl DeVuyst continues her three year term as an elected member of the Board of Directors of the Western Agricultural Economics Association. Larry Leistritz continues to serve on the Advisory Board of the Hettinger Research and Extension Center. Stan Herren is the book review editor for the *Journal of Economics*. Larry Leistritz is also a member of the Conference Sponsorship Committee for the International Association for Impact Assessment. Richard Rathge is an associate editor of *Rural Sociology* and serves on the steering committees for the National State Data Center Program and for the National Kids Count Program. Dave Lambert continues to serve his three-year term to the Board of the Council on Food, Agricultural, and Resource Economics and was selected to serve as editor of the *Journal of Agricultural and Resource Economics* at the end of December 2005, with duties running from April 2006 to December 2009. Dragan Miljkovic is an associate editor for the *Journal of Agricultural and Applied Economics* and is the founding editor of the *Journal of International Agricultural Trade and Development*.

2. Alumni Events and Other Community-Related Activities

Department faculty are active in agricultural fraternities and sororities, attend graduation, reunions, and honors banquets, and participate in agricultural shows and events in which College alumni are frequently present.

3. Fund-Raising Accomplishments

The Department of Agribusiness and Applied Economics continues to offer one of the largest departmental scholarship programs on campus. Over \$40,000 was granted to students in the Department this year. Coordination and judging of applicants is done by Becky Leitch.

Fund-raising for individual department-sponsored events, such as travel of the student NAMA chapter to the annual national competition, was conducted by students with organizational oversight by individual faculty members. New donations to the department scholarship fund maintained by the NDSU Foundation exceeded \$100,000 in 2007.

4. Other Outreach Activities

Department faculty continue to provide talks, lead discussions, and provide media information to a variety of state and national requests. Faculty serve as volunteers for a number of community and business organizations (Boards of Directors for Dakota Montessori School, Northland Educators Federal Credit Union), or serve in advisory positions to governmental groups (Governor's Census Committee, Advisory Council on State Revenue Forecasting).

D. SPECIAL INITIATIVES

1. Diversity

The Department reflects and encourages diversity of opinion and belief, cultural background, and phenotype. Tenured and probationary faculty countries of origin include Serbia, Korea, Malaysia, and Cameroon. National backgrounds of assistant research professors in the Department during 2006 included Sierra Leone, Korea, India, Honduras, and China. Active university commitment to strengthening ties with Belize begun in 2005 will continue with the arrival of three Belizean female graduate students in the fall 2006 semester. The International Agribusiness M.S. program strengthens ties with France and the European Union to increase educational and research opportunities for faculty and students. Undergraduate and graduate students in 2006 came from France, Russia, Korea, India, Sri Lanka, China, Canada, Cameroon, and Japan. Cheryl DeVuyst, one of the department's three women faculty members, is active in national professional organizations promoting the role of women in agricultural economics, and is currently chair of the Committee on Women in Agricultural Economics.

2. Cooperative Programming/Inter-institutional Activities

Below is a listing of multistate research projects in which departmental faculty were involved in 2007:

Principal Investigator	Regional Committee/Title
DeVuyst, Cheryl S.	S-1019, Fruit and Vegetable Marketing Innovations and Demand Assessment
Gustafson, Cole	NC-1014, Agricultural and Rural Finance Markets in Transition
Hearne, Robert	W-1190, Interfacing Technological, Economics, and Institutional Principles for Managing Inter-Sector Mobilization of Water
Koo, Won	S-1016, Impacts of Trade and Domestic Policies on the Competitiveness and Performance of Southern Agriculture
Lambert, David	NC-1034, Impact Analyses and Decision Strategies for Agricultural Research
Wilson, William W.	NC-1016, Economics Assessment of Changes in Trade Arrangements, Bio-Terrorism Threats and Renewable Fuels Requirements on the U.S. Grain and Oilseed Sector
Rathge, Richard	W-2001, Population Dynamics and Change: Aging, Ethnicity and Land Use in Rural Communities
Leistritz, Larry	NE-1029, Rural Change: Markets, Governance, and Quality of Life
Gustafson, Cole	NC-506, Sustainable Biorefining Systems for Corn in the North Central Region
Hearne, Robert	W-2133, Benefits and Costs of Natural Resource Policies Affecting Public and Private Lands
Gustafson, Cole	NC-1013, The Economic and Psychological Determinants of Household Savings Behavior

3. International Activities

The department continued to participate in the summer undergraduate program with *l'Ecole Supérieure d'Agriculture* in Angers, France. Dragan Miljkovic organized the 2007 summer program and accompanied the students to France. Bill Wilson made presentations on wheat market differentiation and criteria for release of new wheat varieties at several international conferences in 2007, and discussed a variety of grain trade topics to NCI Trade Teams.

4. Interdisciplinary Activities

Eric DeVuyst continues his collaboration with faculty in Animal Science on the economic implications of gene traits in cattle.

Larry Leistritz collaborates with process engineers in his analysis of conversion potential of crop residue to industrial products.

Bill Wilson and Phil McLean of Plant Science serve as Directors of the new Center for Agbiotechnology, with a focus on canola and other oilseeds for the production of biodiesel.

Cole Gustafson and scientists in Agricultural and Biosystems Engineering have joined in their efforts to assess the feasibility of biofuels facilities.

5. Economic Development Efforts

One of the primary missions of the department is to aid in economic development efforts in North Dakota. Several faculty members are directly involved in economic development as a major component of their job responsibilities. Many of the grants, publications, presentations, and workshops listed earlier in the annual report reflect these efforts. Larry Leistritz and Kathy Tweeten have primary responsibilities in economic development. Kathy Tweeten serves as Director of the Center for Community Vitality, an umbrella for numerous economic and business development activities in the state. Her activities in 2007 included developing an online food entrepreneurship certificate course, coordinating six listening sessions for agri-tourism operators to better understand their needs for state and county programming, leading nature based tourism workshops and sessions, coordinating and facilitating Entrepreneurship listening sessions, and serving on the planning team for the first statewide community/economic development conference. As director of IBID, Kathy responds to numerous calls for assistance with new and start up business information. Collaboration with various departments on campus, including the Small Business Institute, Computer Science, Hospitality and engineering, enhances the Center's impact.

Larry Leistritz and his staff of Nancy Hodur, Dean Bangsund, and Randy Coon continue to provide research-based materials to public and private entities affecting economic development efforts in the state. Earlier cited publications and presentations have addressed the development of new industries in the state (e.g., crop residue conversion to industrial and energy products), the importance of Cooperatives in rural economies, pecuniary returns from events and festivals, the impacts of selected commodities on the state's economy (e.g., the wheat industry).

6. On-line Courses and Programming

The Department continues to adopt new technology to enhance teaching. All classes are available to students via BlackBoard. The mix of webpages, downloadable files, and other features of web-based delivery vary by instructor.

Web-based courses in the Department include ECON 105 (Elements of Economics), ECON 201 (Principles of Microeconomics), ECON 202 (Principles of Macroeconomics), AGECE 350 (AgriSales), and AGECE 375 (Agricultural Law). Occasional distance offerings of courses to Dickinson State University (e.g., AGECE 374. Cooperatives) have continued.

E. PLANNING

The department will be facing significant institutional change over the next two years. The department chair for over eight years, David Lambert, has requested to step down effective June 30, 2007 conditional upon selection of an acceptable replacement. The department will be leaving Morrill Hall and the main NDSU campus in 2009 to share a newly purchased building in downtown Fargo with the College of Business, offering many new opportunities to strengthen agribusiness and economics teaching and research due to possible collaboration with faculty and students in the College of Business. Needs identified and pursued in earlier planning efforts (Program review in 1999 and the CSREES review in 2000, a faculty retreat in 2003, and

adoption of a new strategic plan in 2005) need to be revisited in light of the changing institutional arrangements, as well as continuing changes in faculty, faculty interests, and the needs of our various stakeholders.

The Dean of the College suggested that a request in the fall of 2006 to schedule a CSREES review be postponed until the arrival of a new department chair. Departmental discussions should address both short and long run strategies to benefit from the upcoming changes.

F. ENROLLMENT AND FTE DATA

Instructor	Prefix	No	Title	Cr	Enroll	FTEs
Fall 2007						
Mack, L	ECON	105	Elements of Economics	3	132	0.495
Gustafson, C	ECON	105	Elements of Economics	3	47	0.176
Gustafson, C	ECON	105	Elements of Economics-DCE	3	118	0.443
Kritsky, C	ECON	201	Principles of Microeconomics	3	233	0.874
Kritsky, C	ECON	201	Principles of Microeconomics	3	177	0.664
Leitch, R	ECON	201	Principles of Microeconomics	3	33	0.124
Wachenheim, C	ECON	201	Principles of Microeconomics-DCE	3	64	0.240
Gustafson, C	ECON	202	Principles of Macroeconomics-DCE	3	119	0.446
Mack, L	ECON	202	Principles of Macroeconomics	3	149	0.559
Gustafson, C	ECON	202	Principles of Macroeconomics	3	49	0.184
DeVuyst, E	AGEC	242	Intro/Agricultural Management	4	36	0.180
DeVuyst, E	AGEC	242	Intro/Agricultural Management	4	30	0.150
DeVuyst, E	AGEC	242	Intro/Agricultural Management	4	30	0.150
DeVuyst, E	AGEC	242	Intro/Agricultural Management	4	10	0.050
Herren, R	ECON	324	Money & Banking	3	48	0.265
Herren, R	ECON	324	Money & Banking	3	47	0.259
Lambert, D	ECON	339	Quant Methods & Decision Making	3	40	0.221
Lambert, D	ECON	339	Quant Methods & Decision Making	3	4	0.022
Lambert, D	ECON	341	Intermediate MicroEconomics	3	51	0.281
Saxowsky, D	ECON	342	Farm/Agbus Mgmt II	3	27	0.149
Garosi, J	ECON	343	Principles of Macroeconomics	3	51	0.281
Garosi, J	AGEC	347	Principles of Real Estate	3	39	0.215
Garosi, J	BUSN	347	Principles of Real Estate	3	45	0.248
Saxowsky, D	ECON	375	Agricultural Law	3	23	0.127
Berwick, M	ECON	378	Intro/Transportation & Logistics	3	15	0.083
Koo, W	ECON	410	Intro to Econometrics	3	8	0.044
Wilson, W	AGEC	444	Crops Marketing	3	17	0.094
Gustafson, C	AGEC	446	Agribusiness Finance	3	9	0.050
DeVuyst, C	AGEC	450	NAT Agrimarketing Assoc (NAMA) 1	1	7	0.013
Herren, R	ECON	465	Labor Economics	3	20	0.110
Hearne, R	ECON	481	Natural Resource Economics	3	21	0.116
DeVuyst, C	ECON	491	Sr Agribusiness Seminar	2	10	0.037
DeVuyst, C	ECON	494	Individual Study	2	1	0.004
DeVuyst, C	ECON	496	Field Experience	2	1	0.004
Koo, W	ECON	610	Intro to Econometrics	3	11	0.115
Wilson, W	AGEC	644	Crops Marketing	3	3	0.031
Gustafson, C	ECON	646	Agribusiness Finance	3	0	0.000

Agribusiness and Applied Economics 2007

Instructor	Prefix	No	Title	Cr	Enroll	FTEs
Herren, R	ECON	665	Labor Economics	3	4	0.042
Hearne, R	ECON	681	Natural Resource Economics	3	8	0.083
Lambert, D	ECON	701	Research Philosophy	3	14	0.146
Wilson, W	ECON	711	Adv. Topics/Econometrics/Risk Anal	3	7	0.073
Hearne, R	AGEC	741	Adv Microeconomics	1	17	0.059
Wilson, W	AGEC	746	Agbus 11/AgFin/Comm Tra	3	7	0.036
Shaik, S	AGEC	746	Agbus 11/AgFin/Comm Tra	3	7	0.036
			Semester Total	129	1789	7.977

Instructor	Prefix	No	Title	Cr	Enroll	FTEs
Summer 2007						
Gustafson, C	ECON	105	Elements of Economics-DCE	3	59	0.221
McKee, G	ECON	201	Principles of Microeconomics	3	12	0.045
Wachenheim, C	ECON	201	Principles of Microeconomics-DCE	3	42	0.158
McKee, G	ECON	202	Principles of Macroeconomics	3	14	0.053
Wachenheim, C	ECON	202	Principles of Macroeconomics-DCE	3	30	0.113
Herren, R	ECON	324	Money&Banking	3	49	0.270
Miljkovic, D	AGEC	360	International Agribus Exp.	3	8	0.044
Miljkovic, D	AGEC	379	Study Tour Abroad	3	9	0.050
Lambert, D	ECON	496	Field Experience	3	1	0.006
Leitch, R	AGEC	496	Field Experience	3	3	0.017
DeVuyst, C	AGEC	496	Field Experience	2	5	0.018
Miljkovic, D	AGEC	795	Field Experience	1	1	0.003
			Semester Total	33	233	0.997

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Instructor	Prefix	No	Title	Cr	Enroll	FTEs
Spring 2007						
Lehrke, L	ECON	105	Elements of Economics	3	161	0.604
Mack, L	ECON	105	Elements of Economics	3	151	0.566
Wachenheim, C	ECON	105	Elements of Economics-DCE	3	76	0.143
Gustafson, C	ECON	105	Elements of Economics-DCE	3	76	0.143
Leitch, R	ECON	201	Principles of Microeconomics	3	224	0.840
Lehrke, L	ECON	201	Principles of Microeconomics	3	223	0.836
Mack, L	ECON	202	Principles of Macroeconomics	3	171	0.641
Garosi, J	ECON	202	Principles of Macroeconomics	3	44	0.165
Gustafson, C	ECON	202	Principles of Macroeconomics	3	111	0.416
Wachenheim, C	ECON	202	Principles of Macroeconomics-DCE	3	34	0.064
Gustafson, C	ECON	202	Principles of Macroeconomics-DCE	3	34	0.064
Wachenheim, C	AGEC	244	Agric Mktg, Livestock Emphasis	3	113	0.424
DeVuyst, C	AGEC	246	Agricultural Finance I	4	33	0.165
DeVuyst, C	AGEC	246	Agricultural Finance I	4	37	0.185
DeVuyst, C	AGEC	246	Agricultural Finance I	4	40	0.200
Herren, R	ECON	324	Money&Banking	3	48	0.265
Herren, R	ECON	324	Money&Banking	3	53	0.292
Lim,S	ECON	341	IntermedMicro	3	38	0.210
Miljkovic, D	AGEC	344	Agricultural Price Analysis	3	25	0.138
Onyango,B	AGEC	346	Agricultural Finance II	3	20	0.110
McKee, G	AGEC	374	Cooperatives	3	24	0.132
McKee, G	AGEC	374	Cooperatives	3	0	0.000
McKee, G	BUSN	374	Cooperatives	3	10	0.055
DeVuyst, E	AGEC	420	Integrated Farm/Ranch Mngmt.	3	41	0.226
Gustafson, C	AGEC	446	Agribusiness Finance	3	16	0.088
Gustafson, C	AGEC	446	Agribusiness Finance	3	0	0.000
DeVuyst, C	AGEC	451	NAMA II	1	19	0.035
Saxowsky, D	ECON	452	Fd Laws & Regulations	3	2	0.011
Garosi, J	ECON	470	Public Policy	3	31	0.171
Koo, W	ECON	472	International Trade	3	20	0.110
Lim, S	ECON	480	Industrial Organization	3	14	0.077
Taylor, R	ECON	484	Agricultural Policy	3	16	0.088
Leitch, R	AGEC	496	Field Experience	0	0	0.000
Saxowsky, D	AGEC	494	Water Law	2	1	0.004
DeVuyst, C	AGEC	496	Field Exp/Bank Mgmt Cases	3	1	0.006
Saxowsky, D	AGEC	494	Water Law	2	0	0.000
DeVuyst, C	AGEC	496	Field Experience	2	1	0.004
Gustafson, C	AGEC	646	Agribusiness Finance	3	0	0.000
Saxowsky, D	ECON	652	Fd Laws & Regulations	3	3	0.031

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Instructor	Prefix	No	Title	Cr	Enroll	FTEs
Garosi, J	ECON	670	Public Policy	3	4	0.042
Koo, W	ECON	672	International Trade	3	2	0.021
Lim, S	ECON	680	Industrial Organization	3	13	0.135
Saxowsky, D	ECON	693	Individual StudyWater Law	3	2	0.021
Miljkovic, D	AGEC	710	Adv Econometrics	1	13	0.045
Onyango,B	AGEC	790	Anal Methods/App Econometrics	1	0	0.000
Baek, J	AGEC	790	Grad Seminar	1	0	0.000
Onyango,B	AGEC	739	Analytical Methods	1	14	0.049
Wachenheim, C	AGEC	744	Agbus I: Ag PR Mktg/Agbus Str	3	11	0.057
Wilson, W	AGEC	744	Agbus I: Ag PR Mktg/Agbus Str	3	11	0.057
			Semester Total	134	1981	7.935

G. OTHER RELEVANT DATA AND MATERIALS

Fiscal Year 2007		Appointment		
		Extension	College	Station
<u>Faculty</u>				
1 Professor and Chair	Lambert,David	0.05	0.10	0.85
2 Associate Professor	Devuyst,Cheryl		0.30	0.70
3 Associate Professor	Devuyst,Eric		0.35	0.65
4 Professor	Flaskerud,George	1.00		
5 Assistant Professor	Garosi,Justin		0.80	0.20
6 Professor	Gustafson,Cole		0.80	0.20
7 Assistant Professor	Hearne,Robert		0.20	0.80
8 Professor	Herren,Robert		1.00	
9 Professor	Koo,Won W		0.10	0.90
10 Professor	Leistriz,F Larry			1.00
11 Assistant Professor	Lim,Siew Hoon		0.80	0.20
12 Assistant Professor	McKee,Gregory		0.35	0.65
13 Associate Professor	Miljkovic,Dragan		0.30	0.70
14 Associate Professor	Petry,Timothy	1.00		
15 Professor	Rathge,Richard			0.53
16 Associate Professor	Saxowsky,David		0.50	
17 Associate Professor	Wachenheim,Cheryl		0.40	0.60
18 Professor	Wilson,William		0.30	0.70
<u>Lecturers/Specialists</u>				
1 Senior Lecturer	Leitch,Rebecca		1.00	
2 Lecturer	Mack,Lawrence		1.00	
1 Extension Specialist	Aakre,Dwight	1.00		
2 Extension Specialist	Swenson,Andrew	1.00		
3 Extension Specialist	Tweeten, Kathy	1.00		
<u>Research Support</u>				
1 Assistant Research Professor	Baek,Jungho			1.00
2 Research Scientist	Bangsund,Dean A			1.00
3 Research Scientist	Dahl,Bruce L			1.00
4 Research Scientist	Hodur,Nancy			1.00
5 Research Scientist	Mattson,Jeremy			1.00
6 Research Scientist	Taylor,Richard			1.00
7 Assistant Research Professor	Zhuang,Renan			1.00

		Appointment	
		Extension	College Station
<u>Professional Support</u>			
1	Information Processing Specialist	Ackerson, Norma	0.05 0.95
2	Information Processing Specialist	Haakenson, Paulann	0.70
3	Administrative Assistant	Moe, Judith	0.05 0.95
4	Administrative Secretary	Osborne, Sandy	1.00
5	Administrative Secretary	Peterson, Joan	0.25 0.75
6	Information Systems Technician	Swandal, Michele	0.25 0.75
7	Information Processing Specialist	Watts, Edith	0.35 0.65

Impacts and relevance of departmental research, teaching, and extension

Research and Extension. Please refer to highlights of departmental research and extension creative activities.

Teaching. Please refer to sections of teaching activities, pages 4-10, and the course information detailed in section F.