

NORTH DAKOTA STATE UNIVERSITY
SPONSORED PROGRAMS ADMINISTRATION



ANNUAL REPORT
EXTERNAL FUNDING AWARDS – 2008

Introduction

Imagine the impact of transformative research and global interaction. NDSU is a place of impact. When comparing 537 universities without a medical school, the National Science Foundation (NSF) ranks NDSU 41st in overall research activities. NDSU remains in the Top 100 research rankings for universities in physical sciences, agricultural sciences, chemistry and social sciences.

In fiscal year 2008, the amount of external grants, contracts and cooperative agreements received by NDSU totaled \$82.4 million. We are pleased to present the FY 2008 Annual Report prepared by the staff in the Office of Sponsored Programs Administration.

Breakdown of external awards and federal formula funds by category:

	FY 2007	FY 2008
External Awards	\$66,755,520	\$68,001,042
External Unrestricted* Awards	\$1,506,097	\$1,288,162
<i>Total External Awards</i>	\$68,261,617	\$69,289,204
Hatch/McIntire-Stennis Funds	\$4,146,585	\$2,574,399
NDSU Extension Service Smith-Lever Formula Funds	\$3,883,900	\$3,765,765
Student Financial Aid	\$6,420,798	\$6,742,192
<i>Total Federal Formula Funds</i>	\$14,451,283	\$13,082,356
Grand Total	\$82,712,900	\$82,371,560

**Unrestricted awards are awards made to NDSU from outside sources to support research that typically do not have a formal or competitive process or proposal requirement.*

NDSU faculty, staff and students achieved \$69,289,204 in external grants, contracts and cooperative agreements during FY 2008. Federal formula funds, state appropriated dollars and internal awards are excluded from this total. External awards have varied purposes, including support of research, education and public service/extension activities.

The sources of external awards were: federal 76.6%; state/local 13.6%; foundation/non-profits 1.6%; business/industry 1.2%; commodity groups 4.9%; and other 2.1%.

Research results achieved by faculty, staff and students at NDSU are published in scientific journals and through international media such as National Geographic, the BBC, CNN and others. As we collaborate with international research partners, NDSU's impact appears in research and scholarly activities around the world.

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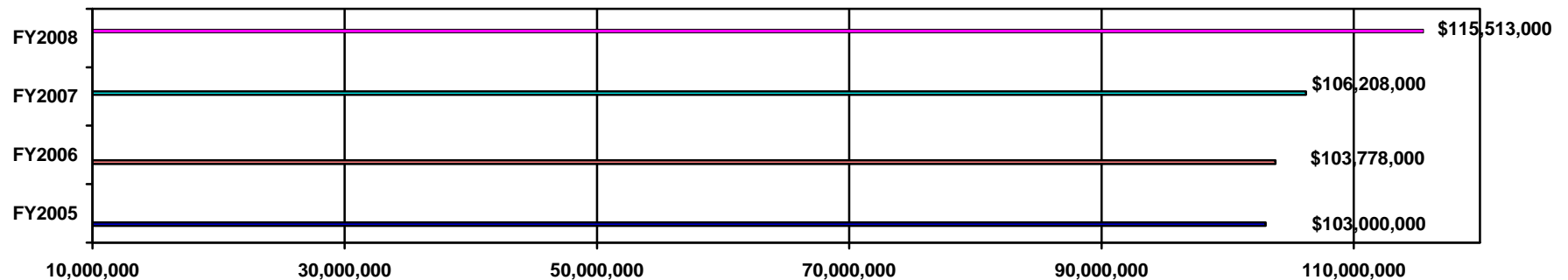
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NDSU's NSF Survey of Research & Development Expenditures

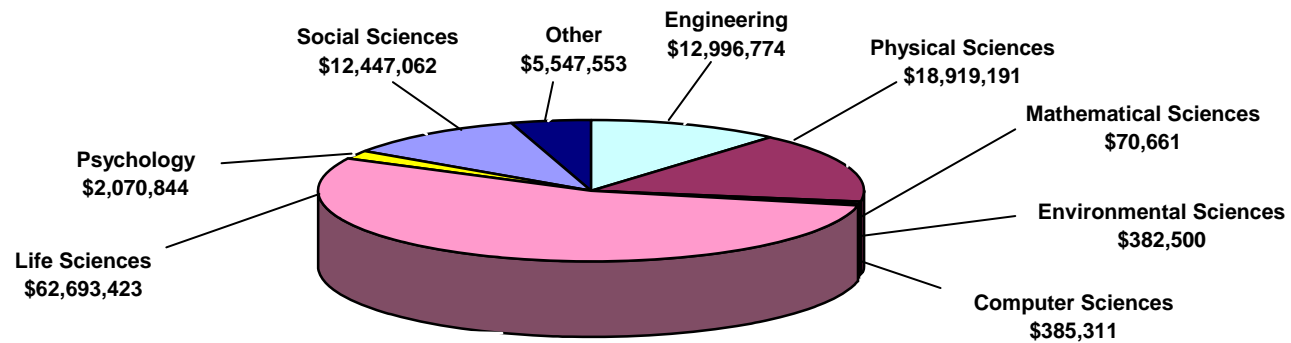
Each year, the National Science Foundation requests data from universities and colleges on their respective fiscal year research and development expenditures. The survey is developed and conducted by the NSF Division of Science Resources Statistics (SRS) and fulfills the legislative mandate of the National Science Foundation Act to “provide a central clearinghouse for the collection, interpretation, and analysis of data on scientific and engineering resources”. The SRS develops and directs about 14 surveys and annually produces about 30 publications related to resources devoted to science, engineering, and technology. The surveys contribute to decisions affecting higher education, Congress, the executive branch, and education associations using institutional data.

The data represented below is generated from funding awarded to NDSU. Sources of funding include: Federal government, State and local government, industry, institution, and other sources such as non profit foundations. Institutional funds include state appropriations, tuition and fees, and gifts expended for research and development activities. In addition, un-reimbursed indirect costs and cost sharing are included as part of the institutional data. NDSU has been doing exceedingly well as sponsored program funding has increased over the last few years.

NSF Survey of Research & Development Expenditures Summary: FY 2005 – FY 2008

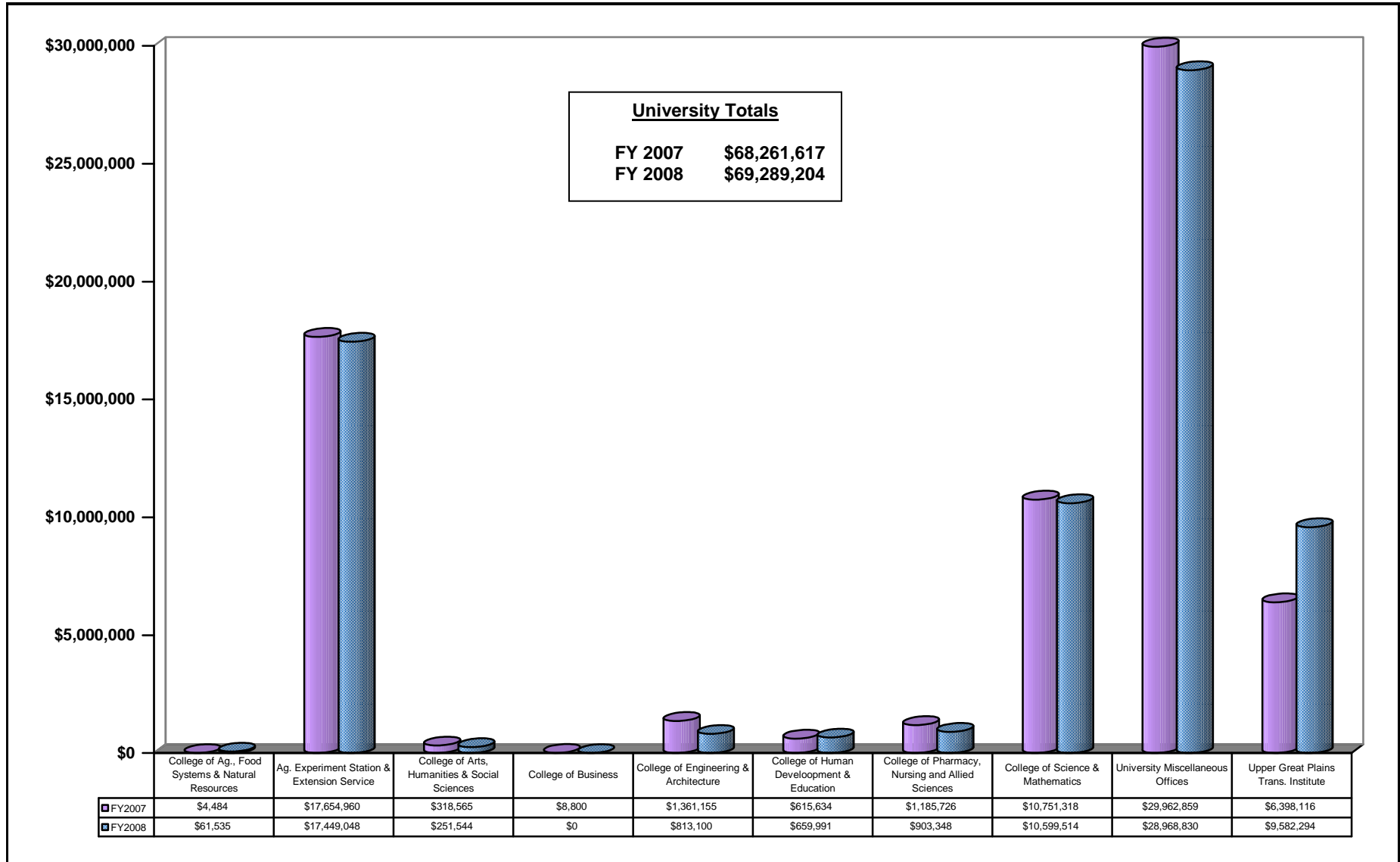


NSF Survey of Research & Development Expenditures by Field of Science and Engineering: FY 2008



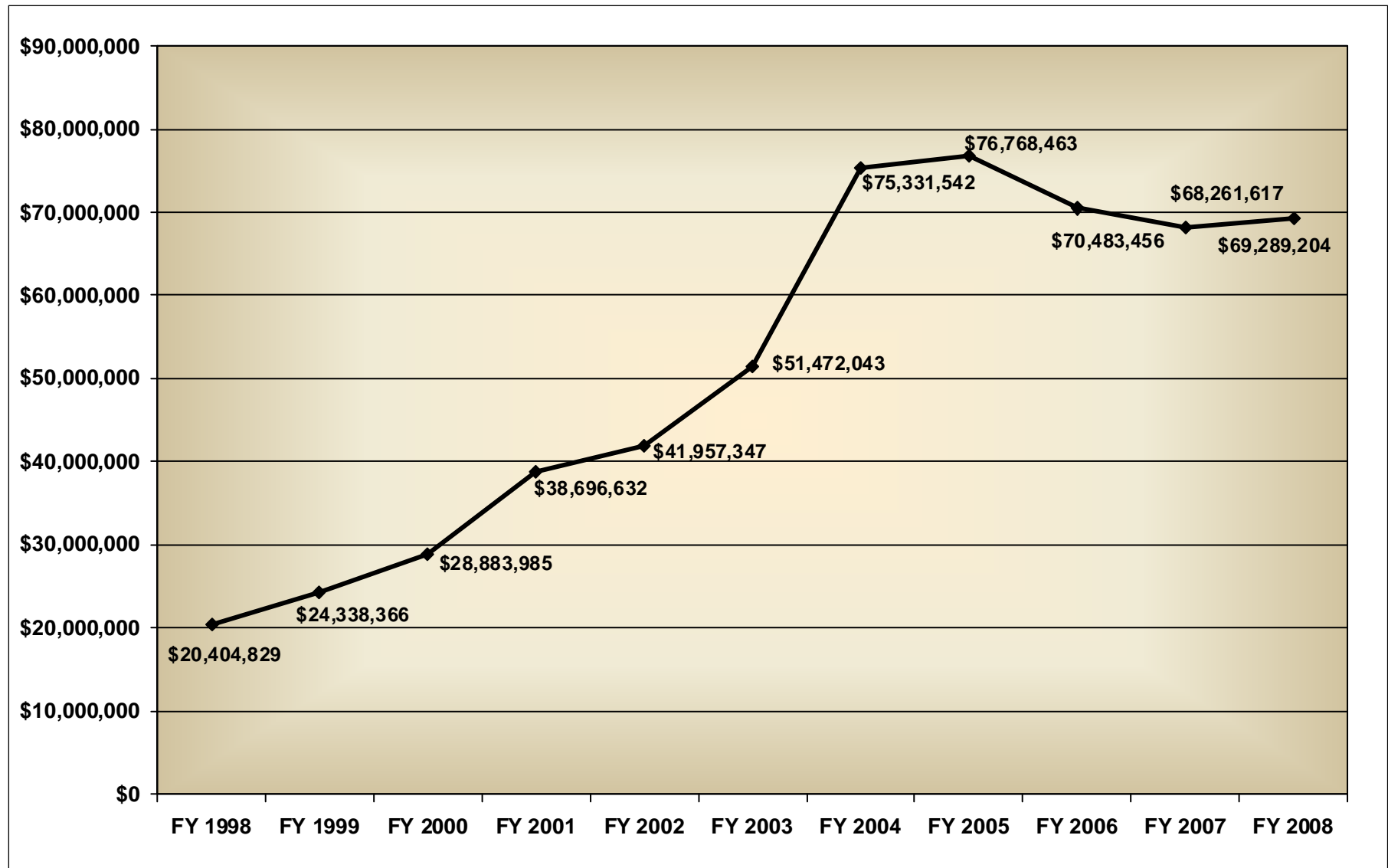
Total Research & Development Expenditures: \$115,513,319

NDSU's Summary of External Awards and Unrestricted Awards by College/Unit* FY 2007 versus FY 2008



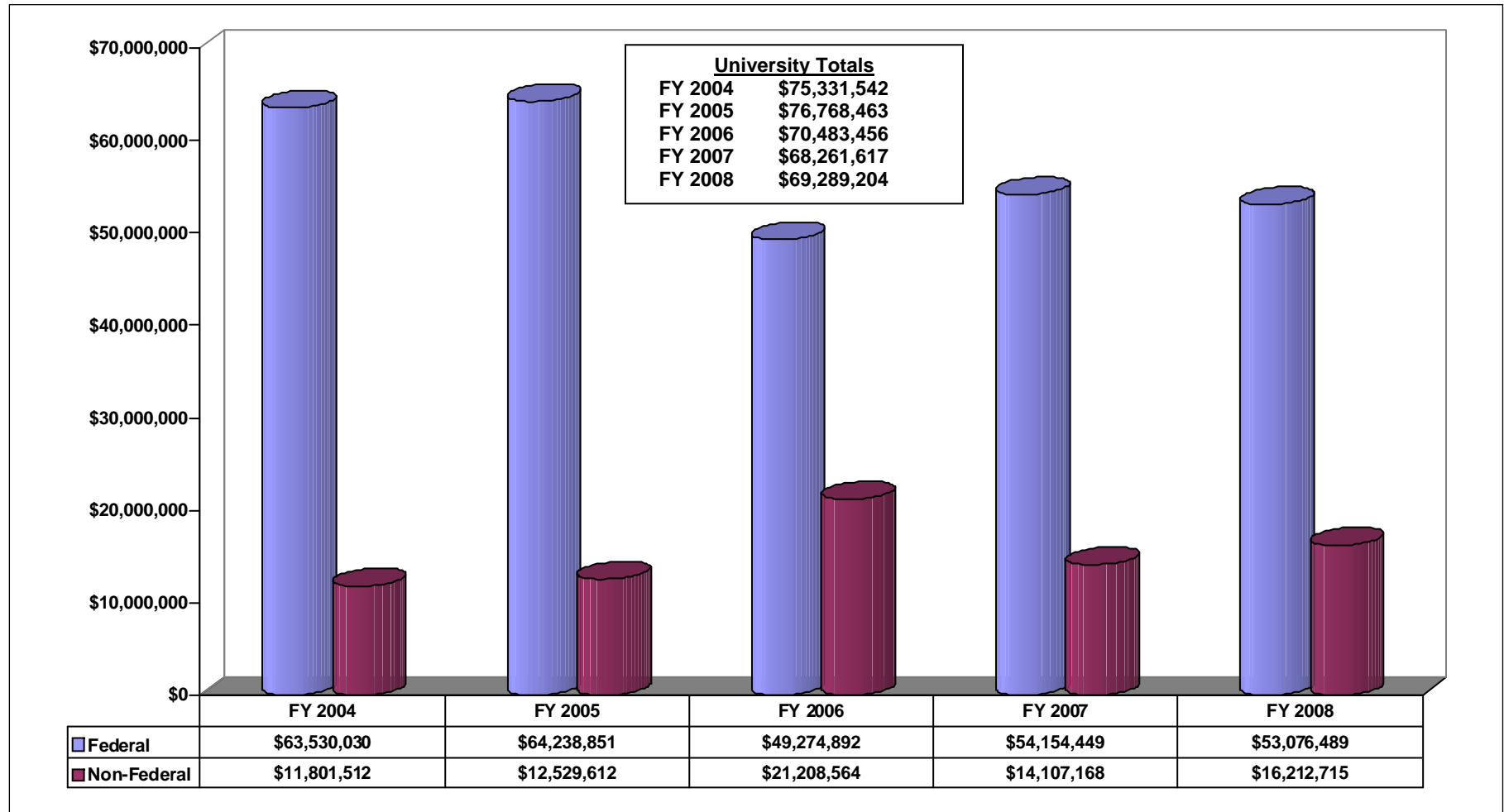
*FY 2007 and 2008 totals include external awards and external unrestricted awards. Federal formula and state appropriated dollars are not included.

NDSU's Comparison of External Awards and External Unrestricted Awards* FY 1998 - FY 2008



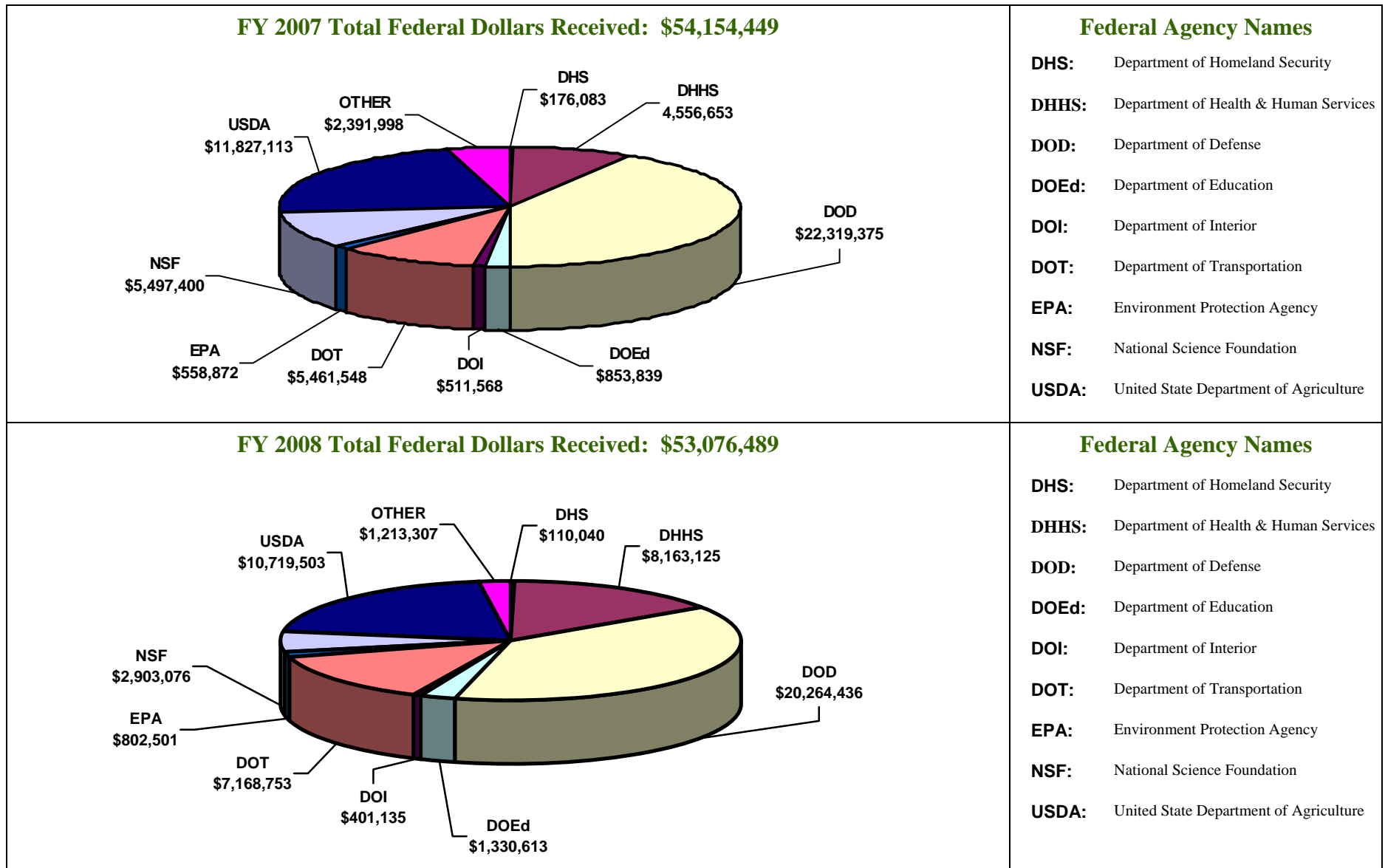
*FY totals include external awards and external unrestricted awards. Federal formula funds and state appropriated dollars are not included.

NDSU's Summary of External Awards and External Unrestricted Awards by Source* FY 2004 - FY 2008



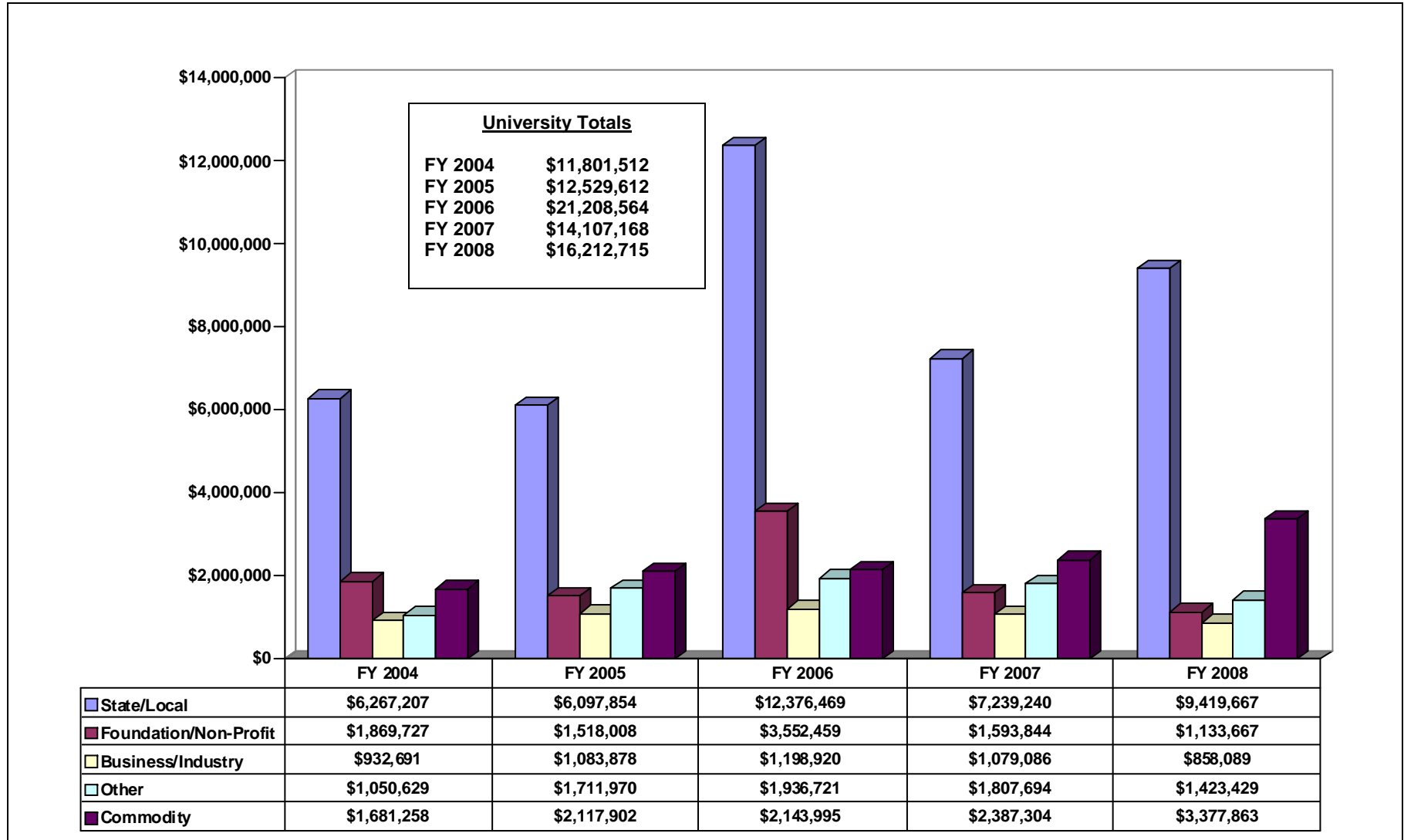
* FY 2004 - FY 2008 totals include external awards and external unrestricted awards. Federal formula funds and state appropriated dollars are not included.

NDSU's Federal Awards by Agency* – FY 2007 versus FY 2008



*Totals include external awards and external unrestricted awards, federal formula funds and state appropriated dollars are not included.

NDSU's Summary of External Awards and External Unrestricted Awards by "Non-Federal" Source* FY 2004- FY 2008



*FY 2004 - FY 2008 totals of "Non-Federal" source includes external awards and external unrestricted awards that have a source of something other than federal. Federal formula funds and state appropriated dollars are not included.

**A correction was made to the FY 2005 data. A \$2,652,348 award was incorrectly listed under Business/Industry and should have been reported under State/Local.

**NDSU's Proposals Processed through Sponsored Programs Administration
and Total Dollars Requested from External Funding Sources
FY 2006 - FY 2008**

College/Unit*	FY 2006		FY 2007		FY 2008	
	# Proposals	Requested	# Proposals	Requested	# Proposals	Requested
Ag., Food Systems & Natural Resources	6	\$110,359	6	\$779,683	8	\$1,253,955
Ag. Experiment Station & Extension Service	480	\$61,278,383	451	\$56,524,215	521	\$62,294,894
Arts, Humanities & Social Sciences	22	\$4,403,780	17	\$2,344,939	20	\$2,888,618
College of Business Administration	2	\$30,000	1	\$3,800	0	\$0
College of Engineering & Architecture	105	\$20,362,535	88	\$16,547,198	90	\$20,861,263
College of Human Development & Education	33	\$1,921,421	58	\$4,577,575	65	\$4,162,055
College of Pharmacy, Nursing & Allied Sciences	32	\$12,358,260	38	\$19,861,464	61	\$26,325,346
College of Science & Mathematics	138	\$67,378,501	112	\$44,967,181	160	\$ 58,293,052
University Miscellaneous Offices	89	\$54,555,008	104	\$37,456,974	106	\$58,883,758
Upper Great Plains Trans. Institute	62	\$14,892,342	63	\$7,666,709	61	\$ 29,439,517
TOTAL	969	\$237,290,589	938	\$190,729,738	1,092	\$264,402,458

*College/unit categories are determined by the principal investigator's department only; co-investigators departments are not reflected.

NDSU's Total External Awards and External Unrestricted Awards by Colleges and Departments* - FY 2007 versus FY 2008

College of Ag., Food Systems & Natural Resources	FY 2007	FY 2008
Agribusiness and Applied Economics	\$0	\$18,000
Plant Sciences	\$4,484	\$41,035
Soil Science	\$0	\$2,500
TOTAL	\$4,484	\$61,535

Ag. Experiment Station & Extension Service	FY 2007	FY 2008
Agribusiness and Applied Economics	\$511,272	\$1,910,286
Agricultural Administration	\$848,009	\$1,247,392
Agricultural and Biosystems Engineering	\$152,713	\$339,487
Agricultural Communications	\$37,929	\$32,000
Animal and Range Sciences	\$986,312	\$1,245,299
Carrington Research Extension Center	\$640,847	\$731,187
Center for 4-H Youth Development	\$54,741	\$69,896
Center for Community Vitality	\$30,000	\$26,661
Central Grasslands Research Center	\$541	\$50,000
Cereal and Food Sciences	\$328,699	\$100,000
Child Development and Family Sciences	\$188,864	\$184,133
Dickinson Research Extension Center	\$431,489	\$501,066
Entomology	\$359,736	\$452,036
Extension Administration	\$321,061	\$529,931
Extension County Programs	\$52,699	\$63,827
Extension – Off Campus	\$2,300	\$4,000
Health, Nutrition and Exercise Sciences	\$1,689,355	\$1,720,835
Hettinger Research Extension Center	\$220,649	\$252,816
Langdon Research Extension Center	\$70,932	\$116,893
North Central Research Extension Center	\$354,712	\$183,013
Northern Crops Institute	\$75,178	\$0
Plant Pathology	\$2,083,404	\$2,223,481
Plant Sciences	\$4,432,609	\$4,318,048
Psychology	\$4,210	\$0
Soil Sciences	\$502,858	\$874,761

Veterinary and Microbiological Sciences	\$3,090,451	\$54,540
Veterinary Diagnostic Services	\$168,287	\$156,427
Williston Research Extension Center	\$15,103	\$61,033
TOTAL	\$17,654,960	\$17,449,048

College of Arts, Humanities & Soc. Sciences	FY 2007	FY 2008
Communication	\$176,937	\$107,540
Criminal Justice and Political Science	\$64,713	\$21,113
Division of Fine Arts	\$0	\$300
History/Religious Studies	\$40,000	\$110,924
Sociology/Anthropology	\$36,915	\$11,667
TOTAL	\$318,565	\$251,544

College of Business	FY 2007	FY 2008
College of Business	\$8,800	\$0
TOTAL	\$8,800	\$0

College of Engineering & Architecture	FY 2007	FY 2008
Architecture and Landscape Architecture	\$19,000	\$11,000
Civil Engineering and Construction	\$355,656	\$175,474
Electrical and Computer Engineering	\$59,620	\$50,997
Industrial and Manufacturing Engineering	\$105,304	\$29,120
Mechanical Engineering and Applied Mechanics	\$821,575	\$546,509
TOTAL	\$1,361,155	\$813,100

College of Human Development & Education	FY 2007	FY 2008
Apparel, Design, Facility Hospitality Mgmt	\$600	\$1,200
Child Development and Family Science	\$67,059	\$297,775
Education	\$418,883	\$297,194
Health, Nutrition and Exercise Sciences	\$129,092	\$63,822
TOTAL	\$615,634	\$659,991

Section I: Summaries and Comparisons

College of Pharmacy, Nursing & Allied Science	FY 2007	FY 2008
Dean's Office	\$340,654	\$159,463
Nursing	\$85,513	\$21,500
Pharmaceutical Sciences	\$746,559	\$702,135
Pharmacy Practice	\$13,000	\$20,250
TOTAL	\$1,185,726	\$903,348

College of Science & Mathematics	FY 2007	FY 2008
Biological Sciences	\$339,721	\$386,950
Center for Science & Mathematics	\$832,996	\$68,288
Chemistry and Molecular Biology	\$2,617,180	\$6,504,466
Coatings and Polymeric Materials	\$3,660,433	\$609,736
Computer Science	\$773,972	\$322,982
Geosciences	\$28,360	\$107,410
Mathematics	\$575,927	\$590,106
Physics	\$160,000	\$275,000
Psychology	\$1,762,729	\$1,734,576
TOTAL	\$10,751,318	\$10,599,514

University Miscellaneous Offices	FY 2007	FY 2008
Office of the President/ND Forest Service	\$2,859,838	\$3,618,615
President's Office	\$20,950	\$0
VP Academic Affairs/Continuing Education	\$582,435	\$574,308
VP Academic Affairs/ITS	\$2,747,348	\$34,750
VP Academic Affairs/Wellness Center	\$0	\$6,500
VP Business and Finance/Facilities Management	\$1,133	\$3,400
VP RCATT/Center for Surface Protection	\$24,967	\$139,698
VP RCATT/CNSE	\$18,761,392	\$19,821,434
VP RCATT/ND Water Resources Research Inst.	\$198,173	\$106,185
VP Research, Creative Activities and Tech Transfer	\$3,963,566	\$3,412,500
VP Academic Affairs/Multicultural Student Affairs	\$0	\$20,268
VP Student Affairs/Orientation and Student Success	\$243,517	\$236,955

VP Student Affairs/TRIO Programs	\$554,090	\$994,217
VP Student Affairs/Wellness Center	\$5,450	\$0
TOTAL	\$29,962,859	\$28,968,830

Upper Great Plains Transportation Institute	FY 2007	FY 2008
Upper Great Plains Transportation Institute	\$6,398,116	\$9,582,294
TOTAL	\$6,398,116	\$9,582,294

University Total	\$68,261,617	\$69,289,204
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Non-Cash Award

PI	Marjorie McCullagh
Department	Nursing
Agency	3M Occupational Health and Environmental Safety Division
Nature of Award	Supplies
Value	\$111,545

FY2007 and FY2008 totals include external awards and external unrestricted awards. Federal formula and state appropriated dollars are excluded.

NDSU's Federal Formula Funds FY 2008

As a land-grant institution, NDSU receives federal allocations from the Hatch, McIntire-Stennis, and Smith-Lever programs. The Pell Grant is an entitlement. The College Work/Study Program and the Supplemental Education Opportunity Grant (SEOG) are allocated according to a "fair-share formula" based on student need. In fiscal year 2008 NDSU received \$13,082,356 in federal "formula funds" as detailed below:

Federal Formula Source	Amount
College of Agriculture/Experiment Station	
Hatch Act – Regular	\$1,821,271
Hatch Multi-State Fund	\$636,737
McIntire-Stennis	\$116,391
Total	\$2,574,399
NDSU Extension Service	
Smith Lever-Formula Funds	\$3,765,765
Student Financial Aids	
Pell Grant	\$5,660,933
College Work/Study	\$326,015
SEOG	\$755,244
Total	\$6,742,192
Total Federal Formula Funds	\$13,082,356

NDSU's Unrestricted Awards by Department - FY 2008

Unrestricted awards are awards made to North Dakota State University from outside sources to support research that typically does not have a formal or competitive process or proposal requirement. In fiscal year 2008 NDSU received \$1,288,162 in unrestricted awards as detailed below:

Department	Amount
Agricultural & Biosystems Engineering	\$6,648
Agricultural Administration	\$83,000
Animal & Range Sciences	\$6,500
Carrington REC	\$9,250
Dickinson REC	\$34,279
Division of Fine Arts	\$300
Entomology	\$157,166
Extension - off campus	\$4,000
Industrial & Manufacturing Engineering	\$500
Langdon REC	\$63,750
Plant Pathology	\$341,850
Plant Sciences	\$529,685
Soil Science	\$38,534
Williston REC	\$12,700
Total Unrestricted Awards	\$1,288,162

NDSU's Research Compliance

The Vice President for Research, Creative Activities & Technology Transfer is the institutional official responsible for ensuring that NDSU complies with federal regulations, state laws, and institutional policies that govern the protection of human research participants, care and use of animals, and the use of certain bio-hazardous substances. The Office of Sponsored Programs Administration supports these compliance committees with responsibility for oversight in the following areas:

- Institutional Review Board (IRB) – protection of the rights and welfare of human research participants
- Institutional Animal Care and Use Committee (IACUC) – human care and use of live, vertebrate animals
- Institutional Bio Safety Committee (IBC) – safe use of rDNA, infectious agents, human blood, bodily fluids and tissue

The committees are composed of NDSU faculty, staff, and unaffiliated members, and meet monthly or quarterly to review proposed projects. Training workshops describing federal regulations and institutional policies in each area are available for investigators as live campus sessions or online sessions.

Summary of Committee Activities

		FY 2006	FY 2007	FY 2008
IRB:	New protocol submissions	242	250	253
	Amendments and continuing reviews	161	149	192
	Investigator training	280	585	374
IACUC:	New submissions	60	68	60
	Continuing reviews	157	127	100
	Investigator training	61	115	50
IBC:	New submissions	30	31	12
	Investigator training	97	72	30

More information, meeting schedules, guidelines, and protocol forms for the IRB, IACUC and IBC can be found on the Sponsored Programs Administration website at: <http://www.ndsu.edu/research/compliance>

North Dakota EPSCoR at NDSU

The North Dakota Experimental Program to Stimulate Competitive Research (ND EPSCoR) Program supports a three-fold mission:

- To be a driving force in the building of a strong research infrastructure in North Dakota.
- To increase opportunities for students and faculty to develop their research capabilities.
- To develop strong linkages with business and industry in North Dakota.

ND EPSCoR is administered for the North Dakota University System (NDUS) by a steering committee composed of NDSU and UND faculty. NSF funded a major EPSCoR Cooperative Agreement grant in May of 2005. This grant, in the amount of \$6.0 million, provides support for research, human resource development, and technology transfer over a three-year period. The North Dakota Legislature has appropriated a total of \$5.19 million as matching dollars for the ND EPSCoR Program. Funds are distributed through a number of competitive processes that support New Faculty Startup Awards, Graduate Assistantships, Equipment and Seed Awards, Undergraduate Research Awards and Technology Transfer. ND EPSCoR also provides similar opportunities through its DOE, NASA and NIH programs.

Infrastructure Improvement Programs

Infrastructure Improvement Programs support *New Faculty Start-Up Awards, Seed Awards, Doctoral Dissertation Awards, and Graduate Assistantship Awards*. Listed below are the awards for this reporting period.

New Faculty Start-up Awards

Principal Investigator	Department	Amount of Award
Peggy Biga	Biological Sciences	\$45,833
Fu-Chih Cheng	Statistics	\$8,500
Lingling Fan	Electrical and Computer Engineering	\$17,500
Kendra Greenlee	Biological Sciences	\$45,834
Angela Hodge	Mathematics	\$8,500
Yail Kim	Civil Engineering	\$15,000
Shek-Hang Law	Pharmaceutical Sciences	\$87,500
Guodong Liu	Chemistry and Molecular Biology	\$43,750
Sanku Mallik	Pharmaceutical Sciences	\$62,500
Brian Ostafin	Psychology	\$18,000
Marinus Otte	Biological Sciences	\$75,000
Clay Routledge	Psychology	\$18,750
Brian Slator	Computer Science	\$40,000
Sudarshan Srinivasan	Electrical and Computer Engineering	\$17,500
Steven Travers	Biological Sciences	\$45,833
Andrej Voronov	Coatings and Polymeric Materials	\$13,000
Pinjing Zhao	Chemistry and Molecular Biology	\$43,750

Doctoral Dissertation Awards

Student	Faculty Advisor	Department	Amount of Award
Chad Amb	Seth Rasmussen	Chemistry and Molecular Biology	\$25,480
Adekunle Elegbede	Sanku Mallik	Pharmaceutical Sciences	\$38,720
Aruna Kandikonda	Michael Christoffers	Plant Sciences	\$10,181
Bedabibhas Mohanty	Kalpana Katti	Civil Engineering	\$19,360
Ankit Vora	Dean Webster	Coatings and Polymeric Materials	\$10,181

Graduate Assistantship Awards

Student	Faculty Advisor	Department	Amount of Award
Kathy (Legge) Edwards	Stephen O'Rourke	Pharmaceutical Sciences	\$32,592
Jerrilyn Malaterre	Shahryar Kianian	Plant Sciences	\$32,592

Science Outreach and Recruitment

Three Science Outreach and Recruitment programs, *Advanced Undergraduate Research Awards (AURA)*, and *Faculty Laboratory and Research Experience (FLARE)* were supported in FY 2008.

Advanced Undergraduate Research (AURA) Awards

An award of \$10,000, was made to help support the NDSU Mississippi Valley State University Summer Research Internships program. Twelve students guided by a faculty mentor, conducted full-time research activities. The program is directed by Evadean Myers, Exec. Director, Chief Diversity Officer, Office for Equity and Diversity and Dr. Deland Myers, Director, School of Food Systems.

Faculty Laboratory and Research Experiences (FLARE)

Faculty from the comprehensive and liberal arts colleges in North Dakota are provided opportunities to conduct collaborative research with established principal investigators at NDSU and UND. During FY 2008 no awards were made.

Technology Transfer

North Dakota students and faculty supported business and industry in North Dakota with their research skills through the support of ND EPSCoR technology transfer programs.

Students in Technology Transfer and Research (STTAR)

ND EPSCoR established the Students in Technology Transfer and Research (STTAR) Program in 1994 in response to recognized state and national needs for improving technology transfer. ND EPSCoR provides salary cost sharing with participating companies. Eighty five North Dakota companies from across the state have participated since the program was initiated. In FY 2008, 28 students from the North Dakota University System and the following companies benefited from student expertise:

Section II: Internal NDSU Grant Programs

Amity Techology	Goodrich Corporation	Northrop Grumman Corp.	TriSteel Mfg Co
Appareo Systems, LLC	Integrity Windows	PS Doors	Ulteig Engineers, Inc
Beamco	Minnkota Power	Sheyenne Tooling & Mfg	
Crary Company	MNDAK Concrete, Inc	Summit Group Software	
Dakota Growers Pasta Co	Nodak Electric Coop	Swanson Health Products	

Faculty in Technology Transfer and Research (FITT)

Faculty from North Dakota universities are matched with North Dakota firms to conduct research during the summer. During FY 2008, no awards were made.

NASA EPSCoR Grants

The National Aeronautics and Space Administration (NASA), encourages research relevant to the nation's space and advanced aeronautics goals. To accomplish this, NASA initiated an EPSCoR program based on NSF's successful program.

Principal Investigator/Department		Project Title	Award
Uwe Burghaus	Chemistry & Molecular Biology	Adsorption of Water on Stimulated Moon Dust Samples	\$13,349
Xiaojiang (James) Du	Computer Science	Effective Communication Systems for NASA Sensor Webs	\$4,815
Ivan T. Lima	Electrical & Computer Engineering	Microchip Laser Seeded Yb-Doped Photonic Crystal Fiber Amplifier MOPA Laser for MPLNET Atmospheric LIDAR Systems	\$13,196
Zakaria Mahmud	Mechanical Engineering	Integrated Flow Control on Low Pressure Turbine Blades Using Active and Synthetic Jets	\$21,803
Annie X.W. Tangpong	Mechanical Engineering & Applied Mechanics	Analysis of Friction Damping in Nanocomposites	\$22,722
Dianxiang Xu	Computer Science	Automated Generation of Safety Tests	\$13,053

NIH INBRE Grants (ND IDeA Network of Biomedical Research Excellence)

The purpose is to build biomedical research capacity within the state. Networking and human resource development are the watchwords for this collaborative effort between the two North Dakota research intensive universities, four baccalaureate institutions in the North Dakota University System and five tribal community colleges.

Principal Investigator/Department		Project Title	Award
Donald Schwert	Center For Science and Mathematics Education	ND-INBRE, NDSU Subcontract	\$504,411

Research Development Fund

The NDSU Research Development Fund was first established in 1991 to support, enhance, and reward scholarly activities at NDSU. Funded through a combination of indirect costs (facilities and administrative costs) reimbursement from grants as well as appropriated dollars, the fund is disbursed by the Office of Research, Creative Activities and Technology Transfer. A summary of FY 2008 activities follows.

VPRCATT Funded Projects

The Vice President for Research, Creative Activities, and Technology Transfer (VPRCATT) has funded a variety of initiatives over the past year. Sixteen awards were made totaling \$147,531. Generally, the vice president contributes limited matching dollars to help fund requests for projects, equipment, conference planning, special events, and other activities related to research and creative activities across campus.

Travel Awards

Continuing a long tradition, the Travel Awards program funds small matching grants for faculty and students for research-related travel. Faculty travel awards are made for travel purposes in seven different categories. Non-faculty travel awards are made for presentation of research at conferences. Applications for travel support are considered from faculty, undergraduate students, graduate students, post-docs, and research associates. The ND EPSCoR Office contributed \$10,000 to the program to be used toward faculty and student travel awards. The President's Office also provides significant additional funds for travel by faculty and staff. Travel awards provided through the Office of Research, Creative Activities and Technology Transfer are often used together with the President's awards to finance faculty trips. The totals below do not include the President's travel awards.

	FY 2008		FY 2007		FY 2006	
	# of Awards	Amount	# of Awards	Amount	# of Awards	Amount
Faculty Travel Awards	82	\$32,600	78	\$33,574	90	\$35,719
Non-Faculty Travel Awards	101	\$19,806	103	\$19,591	107	\$21,183
Totals	183	\$52,406	181	\$53,165	197	\$56,903

Total FY 2008 Awards from Research Development Fund: \$199,937

State Board of Agricultural Research and Education Agricultural Research Fund

In 1997, the North Dakota State Legislature created the State Board of Agricultural Research (Sections 19-24 of chapter 4-05.1 of the North Dakota Century Code). Among other duties, SBARE administers the Agricultural Research Fund. The Agricultural Research Fund is a special fund in the state treasury derived from checkoffs indicated on the oil tax refund of \$0.04 per gallon of gasoline. The monies in the fund must be expended for agricultural research.

Annually, SBARE apportions the Agricultural Research Fund: 70% to research activities affecting North Dakota agricultural commodities (those that account for at least two percent of the gross sales of all agricultural commodities grown or produced in the state, but the percentage allocated to each commodity cannot exceed the percentage that the gross sales of the commodity contribute to the total of gross sales of all agricultural commodities grown or produced the previous year); 18% to research activities affecting animal agriculture; and 12% to research activities affecting new and emerging crops. SBARE solicits research proposals and appoints committees to review the proposals and award grants competitively.

Researcher	Department	Project Title	Grant Amount
Scott Pryor	Ag. and Biosystems Engineering	Enzymatic Pretreatment of Sugar Beet Pulp for Ethanol Production	\$9,452
Dale Redmer	Animal and Range Sciences	Visualizing and Quantifying Vascular Architecture in Key Nutrient	\$6,000
Joel Caton	Animal and Range Sciences	Transferring Tissues of Ruminant Livestock	
Larry Reynolds	Animal and Range Sciences		
Joel Caton	Animal and Range Sciences	Does Glucagon like Peptide-2 Improve Intestinal Function and	\$5,260
Dale Redmer	Animal and Range Sciences	Health in Ruminants?	
Larry Reynolds	Animal and Range Sciences		
Joel Caton	Animal and Range Sciences	Influence of Maternal Dietary Intake and Selenium Level on	\$7,692
Dale Redmer	Animal and Range Sciences	Postnatal Performance and Intestinal Function	
Kim Vonnahme	Animal and Range Sciences		
DK Lee	Carrington REC	Nitrogen Management for Irrigated Malting Barley	\$3,500
Kathleen Wiederholt	Carrington REC	Northern-Hardy Fruit Evaluation Project	\$9,443
Blaine Schatz	Carrington REC		
Vern Anderson	Carrington REC	Effects of Feeding Field Peas to Bison on Animal Performance,	\$4,000
Eric Berg	Animal & Range Sciences	Meat Quality Traits, and Consumer Eating Satisfaction	
Ezra Aberle	Carrington REC	Impact of Tillage System and Previous Crop on Soybean Production	\$4,600
DK Lee	Carrington REC		
Blaine Schatz	Carrington REC		
Vern Anderson	Carrington REC	Increasing Value and Market Potential for North Dakota Co-Product	\$29,344
Kim Koch	Northern Crop Institute	Feeds	
Breanne Ilse	Carrington REC		
Andriy Voronov	Coatings and Polymeric Materials	New Iron Fertilizers for Soybeans Based on "Smart" Polymers	\$11,960
R. Jay Goos	Soil Science		
Doug Landblom	Dickinson REC	Effect of Ddgs Substitution for Hay when Fed Pre-and Post-Calving	\$6,000
		on Cow Condition, Cow and Calf Reproductive Performance	\$5,000

Section II: Internal NDSU Grant Programs

Researcher	Department	Project Title	Grant Amount
Janet Knodel Bill Berzonsky	Entomology Plant Sciences	Optimizing the Identification of High-Yielding Spring Wheat's with Resistance to Wheat Stem Sawfly	\$15,669
Janet Knodel Larry Charlet	Entomology Entomology	Determination of the Biology, Impact, Economic Threshold, and Pest Management Strategies for the Sunflower Seed Maggot	\$21,485
Amanda Gearhart Chris Schauer Kevin Sedivec	Hettinger REC Hettinger REC Soil Science	Reducing Costs to Livestock Producers: VLSA Imagery Compared to Traditional Range Monitoring Field Methods	\$7,000
Michele Stamm Vern Anderson Breanne Ilse Chris Schauer	Hettinger REC Carrington REC Carrington REC Hettinger REC	Impacts of a Barley and Distillers Grain Natural Feeding System on Growth Performance, Carcass Characteristics, and Production Costs of Spring Born Calves	\$24,000
Brain Jenks Denise Markle Sam Markell	North Central REC North Central REC Plant Pathology	Canola Agronomic Survey	\$11,577
Tika Adhikari Shaukat Ali Mohamed Mergoum	Plant Pathology Plant Pathology Plant Sciences	Identification of New Sources of Resistance to Major Leaf Spot Diseases in a Mini-Core Subset of the Wheat Germ Plasma	\$12,000
Jack Rasmussen Shaobin Zhong	Plant Pathology Plant Pathology	Intensive Greenhouse Screening of Wheat Line for Resistance to Leaf Rust	\$8,000
James Walla Harlene Hatterman-Valenti Joe Zeleznik	Plant Pathology Plant Sciences Plant Sciences	Identifying Superior June Berry Varieties from North Dakota	\$6,898
Berlin Nelson	Plant Pathology	Effect of Soil Type on Soybean Cyst Nematode	\$20,925
Shaukat Ali Tika Adhikari Marcia McMullen	Plant Pathology Plant Pathology Plant Pathology	Assessment of Population Diversity within and among the Wheat Leaf Spotting Pathogens	\$6,000
Mohamed Khan	Plant Pathology	Efficacy and Timing of Application of Fungicides for Controlling Rhizoctonia Crown Rot of Sugar Beet	\$12,675
Rubella Goswami Juan Osorno Sam Markell DK Lee	Plant Pathology Plant Sciences Carrington REC Plant Pathology	Root Rot Resistance and Disease Management of Dry Beans	\$15,407
Gary Secor Neil Gudmestad Susie Thompson Harlene Hatterman-Valenti Nick David	Plant Pathology Plant Pathology Plant Sciences Plant Sciences Plant Sciences	Support of Irrigated Potato Research	\$15,602
Richard Horsley Paul Schwarz Stephen Neate	Plant Sciences Plant Sciences Plant Pathology	Development of Two-Rowed Malting Barley Cultivars for Western North Dakota	\$6,257
Richard Horsley Stephen Neate	Plant Sciences Plant Pathology	Development of Feed Barley Cultivars with Multiple Disease Resistance	\$2,757
Xiwen Cai	Plant Sciences	Improving North Dakota Wheat using Alien Genes	\$16,792

Section II: Internal NDSU Grant Programs

Researcher	Department	Project Title	Grant Amount
Mohamed Mergoum	Plant Sciences	Introgression of Valuable Traits into Adapted HRS Wheat using Efficient and Rapid Modern Methods	\$24,000
Mohamed Mergoum P.K. Singh Tika Adhikari	Plant Sciences Plant Sciences Plant Pathology	Breeding for Leaf Spot Resistance in Hard Red Spring Wheat	\$20,000
James Hammond	Plant Sciences	Flax with High Linolenic Acid	\$10,000
Burton Johnson Kent McKay Steve Zwinger	Plant Sciences North Central REC Carrington REC	Seeding Date and Harvest Management Influence on Camelina Performance	\$7,500
Burton Johnson Steve Zwinger Neil Riveland	Plant Sciences Plant Sciences Williston REC	Winter Camelina Studies Regarding Seeding Date, Seeding Depth and Genotype Comparison	\$6,850
Harlene Hatterman-Valenti DK Lee Paul Hendrickson	Plant Sciences Carrington REC Carrington REC	Incorporating Micro-Rate Technology into a Weed Control Program for Onions	\$5,075
David Dai	Plant Sciences	Breeding Elite Chokecherry Cultivars for Small Fruit Production in North Dakota	\$9,956
Joel Ransom	Plant Sciences	Efficacy of Fungicides and Pre-Harvest Desiccants on Corn in North Dakota	\$5,652
Marcelo Carena	Plant Sciences	Development of New Early Maturing Products to Increase the Long-Term Adaptation and Profitability of North Dakota Corn	\$20,000
Burton Johnson	Plant Sciences	Winter Canola Evaluations in North Dakota	\$5,000
David Franzen	Soil Science	Nitrogen Recalibration for Wheat	\$10,000
Brigit Pruess	Vet and Microbiological Sciences	Global Gene Regulation in Escherichia Coli O157:H7 on the Surface of Beef	\$10,000
Robert Barigye Neil Dyer Theresa Newell Margaret Khaista	Vet Diagnostic Lab Vet Diagnostic Lab Vet Diagnostic Lab Vet and Micro Science	A Study on the Role of Giardia Spp in North Dakota Livestock, Evaluation of Risk Factors in Giardia-Associated Calf Scours	\$13,130
Jerald Bergman	Williston REC	Evaluation of Sugar Beet Varieties for Susceptibility to Fusarium Yellow	\$3,500
Neil Riveland	Williston REC	Selection of Hard Winter Wheat Cultivars Adapted to North Dakota	\$8,000
Total			\$463,958

Grants and Contracts Awarded

College of Agriculture, Food Systems and Natural Resources

Agribusiness and Applied Economics

Investigator(s)	Agency	Project Title	Awarded
Wilson, William	ND Wheat Commission	Market Development and Support	\$18,000

Agribusiness and Applied Economics Total: \$18,000

Plant Sciences

Investigator(s)	Agency	Project Title	Awarded
Howatt, Kirk	National Sunflower Association	Use of an Experimental Compound to Replace Paraquat as a Harvest Aid in Sunflower	\$30,000
Kandel, Herman	National Sunflower Association	Evaluation of Flight Control in Sunflower	\$4,000
Melani, Marcelo	Northern Canola Growers Association	Generation Advance and Selection for High Oil Seed Content of Canola Breeding Lines in Winter Nursery Environments	\$7,035

Plant Sciences Total: \$41,035

Soil Science

Investigator(s)	Agency	Project Title	Awarded
Akyuz, F. Adnan	USDA/ARS/Colorado State University	Operation of the Fargo UVB Monitoring Site as Part of the USDA National Network	\$2,500

Soil Science Total: \$2,500

College of Agriculture, Food Systems and Natural Resources Total:	\$61,535
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Agriculture Experiment Station and Extension Service

Agribusiness and Applied Economics

Investigator(s)	Agency	Project Title	Awarded
Aakre, Dwight Haugen, Ron - Agribusiness & Applied Economics	USDA/CSREES/University of Nebraska	Pasture, Rangeland, Forage Rainfall Index Insurance Education Program for North Dakota	\$7,940
Danielson, Ramona	ND Department of Health	Pram-o-Gram Fact Sheets	\$5,000
Leistriz, Larry	Florida Power and Light Company	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 Region	\$27,692
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	ND Petroleum Council	Contribution of the Petroleum Industry to the North Dakota Economy - 2007	\$17,500
Leistriz, Larry	DOE/University of North Dakota	Economics of Carbon Sequestration in the PCOR Region	\$47,150
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
McKee, Gregory	ND Farmers Union	Analyzing the Financial Performance of North Dakota Agriculture Cooperatives	\$3,763
McKee, Gregory	CHS Foundation	Enhancing the Global Competitiveness of Farmer-owned Agribusinesses through a Student and Professional Centered Learning Program	\$1,200
Petry, Timothy Haugen, Ron - Agribusiness & Applied Economics	USDA/CSREES/University of Nebraska	Livestock Insurance Education Program for North Dakota	\$11,892
Rathge, Richard	Annie E. Casey Foundation	North Dakota Kids Count Continued Support	\$75,000

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Rathge, Richard	Annie E. Casey Foundation	Technical Assistance for North Dakota Kids Count	\$4,425
Rathge, Richard	USDA/CSREES	Regional Center for Rural Development in North Dakota	\$79,635
Schwarzwalter, Kay Rathge, Richard - Agribusiness & Applied Economics	NDSU Development Foundation	Safe Roads to School Pilot Study	\$20,000
Shaik, Saleem	USDA/RMA/Mississippi State University	Aquaculture Program Development for Catfish and Trout Crop Pilot Insurance Programs	\$24,787
Wilson, William	ND Wheat Commission	Marketing on Variety Basis	\$18,000
Wilson, William McClean, Phillip - Plant Sciences	State of North Dakota, Center of Excellence	Center for Excellence for Agbiotechnology - Oilseed Development II	\$1,500,000
Agribusiness and Applied Economics Total:			\$1,910,286

Agricultural Administration

Investigator(s)	Agency	Project Title	Awarded
Grafton, Kenneth	USDA/CSREES	North Central Region Canola Research Grant	\$250,978
Grafton, Kenneth	USDA/NRCS/ND Natural Resources Trust	Evaluation of Perennial Herbaceous Biomass Crops	\$64,000
Grafton, Kenneth	ND Natural Resources Trust	Evaluation of Perennial Herbaceous Biomass Crops	\$4,100
Grafton, Kenneth	USDA/ARS	Development of Technological Advancement of Sclerotinia Management	\$10,000
Grafton, Kenneth	USDA/ARS	Development of Technological Advancement of Sclerotinia Management	\$17,000
Grafton, Kenneth	USDA/ARS	Development of Technological Advancement of Sclerotinia Management	\$13,633
Grafton, Kenneth	ND State Seed Department	Greenhouse Facility Construction	\$250,000
Grafton, Kenneth	ND Barley Council	Greenhouse Facility Construction	\$25,000

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Grafton, Kenneth	ND Wheat Commission	Greenhouse Facility Construction	\$250,000
Grafton, Kenneth	USDA/National Agricultural Statistics Service	National Agricultural Statistics Service	\$52,000
Swank, James	USDA/ARS	Research Support Agreement NGPRC - FY 07	\$3,921
Swank, James	USDA/ARS	RSA - Acquisition of Goods and Services	\$53,700
Swank, James	USDA/ARS	Acquisition of Goods and Services	\$1,015
Swank, James	USDA/ARS	Acquisition of Goods and Services	\$9,545
Swank, James	USDA/ARS	Acquisition of Goods and Services: Fargo ARS Lab	\$159,500
Agricultural Administration Total:			\$1,164,392

Agricultural and Biosystems Engineering

Investigator(s)	Agency	Project Title	Awarded
Hellevang, Kenneth Nowatzki, John - Agricultural & Biosystems Engineering Scherer, Thomas - Agricultural & Biosystems Engineering	ND Department of Commerce	Energy Efficiency and Renewable Energy Education Program	\$30,000
Hellevang, Kenneth	ND Department of Commerce	Energy Efficiency Education Program Enhancement	\$40,000
Hellevang, Kenneth	USDA/CSREES/University of Nebraska-Lincoln/Purdue University	EDEN E-Extension Flooding Material Development	\$13,500
Jia, Xinhua DeSutter, Tom - Soil Science Hopkins, David - Soil Science Scherer, Thomas - Agricultural & Biosystems Engineering Steele, Dean - Agricultural & Biosystems Engineering	ND State Water Commission	Feasibility of the Use of Tile Drainage for Subsurface Irrigation in the Red River Valley and its Impact on Soil, Chemical and Physical Properties	\$13,283
Johnson, Roxanne Scherer, Thomas - Agricultural & Biosystems Engineering	EPA/ND Department of Health	Red River Valley Tile Drainage Water Quality Assessment	\$12,727

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Nowatzki, John	USDA/CSREES/University of Nebraska	Map@Syst - Geospatial Solutions for Rural and Community Sustainability	\$35,700
Nowatzki, John	USDA/CSREES/University of Nebraska-Lincoln	Map@Syst - Geospatial Solutions for Rural and Community Sustainability	\$15,000
Pryor, Scott Chang, Sam K.C. - Cereal & Food Sciences	USDA/CSREES	Bio-diesel Co-product Development: Utilization of Canola Proteins for Industrial Bio-products	\$99,562
Pryor, Scott	Sugarbeet Research and Education Board of MN and ND	Enzymatic Pretreatment of Sugarbeet Pulp for Ethanol Production	\$8,067
Scherer, Thomas	USDA/CSREES/Colorado State University	Coordinated Agriculture Water Quality Programming for the Northern Plains and Mountains Region	\$65,000

Agricultural and Biosystems Engineering Total: \$332,839

Agricultural Communications

Investigator(s)	Agency	Project Title	Awarded
Koch, Becky	ND Department of Agriculture	North Dakota Agriculture Magazine Editorial and Graphic Service	\$4,500
Koch, Becky Klenow, Daniel - Sociology/Anthropology Tweeten, Kathleen - Center for Community Vitality	USDA/CSREES	Electronic Media to Add Value to "Ready Business" Training	\$18,000
Koch, Becky	USDA/CSREES/Purdue University	Extension Diseaster Education Network (EDEN) Student Support	\$5,000
Koch, Becky	ND Department of Agriculture	North Dakota Ag Magazine	\$4,500

Agricultural Communications Total: \$32,000

Animal and Range Sciences

Investigator(s)	Agency	Project Title	Awarded
Berg, Eric Maddock-Carlin, Kasey - Animal & Range Sciences	ND Beef Commission	Evaluation of the Physiological Response of Feedlot Cattle to Working Chute Environment Relative to Temperament, Growth Rate, Carcass Composition, Beef Quality, and Tenderness	\$64,574

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Berg, Paul Berg, Eric - Animal & Range Sciences Maddock, Travis - Animal & Range Sciences	ND Beef Commission	Assess the Effectiveness of Oxgen Barrier Oven Bages in Low Temperature Cooking on the Reduction of Warmed Over Flavor (WOF) in Beef Roasts	\$32,740
Berg, Eric Maddock, Rob - Animal & Range Sciences	ND Beef Commission	Willingness to Purchase Known Tender Beef Steak from Foodservice and Retail	\$47,364
Dekeyser, Edward Kirby, Donald - Animal & Range Sciences	EPA/ND Department of Health	Estimating Wetland Quality for the Missouri Coteau, North Dakota - Phase III	\$97,986
Dekeyser, Edward	DOI/National Park Service	Task Agreement for Additional Objectives as Part of the Prairie Management Plan for the Knife River Indian Villages	\$9,000
Dekeyser, Edward Kirby, Donald - Animal & Range Sciences	EPA/ND Department of Health	Estimating Wetland Quality for the Missouri Coteau	\$39,094
Grazul-Bilska, Anna	Plastic Surgery Institute, P.C.	Study of Aloe Vera Effects on the Antioxidant System using 3E Human Skin EpiDerm(TM) Model: Implications for Skin Protection and Wound Healing	\$5,000
Grazul-Bilska, Anna	Plastic Surgery Institute, P.C.	Study of Aloe Vera Effects on the Antioxidant System using 3D Human Skin EpiDerm(TM) Model: Implications for Skin Protection and Wound Healing	\$5,000
Hammer, Carolyn	NDSU Development Foundation	Effects of Flax on the Estrous Cycle of Horses	\$2,835
Lardy, Greg Maddock, Rob - Animal & Range Sciences	ND Beef Commission	A Comparison of Natural and Conventional Beef Production Systems: Effects on Beef Quality, Nutrients, and Sensory Characteristics	\$37,128
Lardy, Greg	ND Oilseed Council	Effects of Flax Seed Supplementation on Reproduction, Health and Milk Composition in Early Lactation Dairy Cow	\$20,000
Lardy, Greg	Foursquare Feeders, LLLP	Foursquare Feeders, LLLP Feedlot Feasibility Project	\$10,000
Reynolds, Lawrence	USDA/CSREES	Aspen Perinatal Biology Symposium	\$10,000
Reynolds, Lawrence Grazul-Bilska, Anna - Animal & Range Sciences	USDA/CSREES	Expression and Methylation Status of Genes Regulating Placental Angiogenesis in Normal, Cloned, IVF, and Manoparental Sheep Foetuses	\$315,000

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Reynolds, Lawrence Redmer, Dale - Animal & Range Sciences	DHHS/NIH	Nutrition, Fetal Growth, and Placental Angiogenesis	\$283,644
Sedivec, Kevin Barker, William - Animal & Range Sciences	DOD/US Army/ND National Guard	Natural Resources Data Acquisition and Integrated Pest Management to Control Leafy Spruce and other Noxious Weeds on North Dakota Army National Guard Lands in 2007-2008	\$66,690
Sedivec, Kevin Barker, William - Animal & Range Sciences	DOD/US Army/ND National Guard	National Resource Data Acquisition and Integrated Pest Management to Control Leafy Spruce and other Noxious Weeds on North Dakota Army National Guard Lands in 2007 - 2008	\$17,387
Sedivec, Kevin Barker, William - Animal & Range Sciences	DOD/US Army/ND National Guard	National Resource Data Acquisition and integrated Pest Management to Control Leafy Spruce and other Noxious Weeds on North Dakota Army National Guard Lands in 2007 - 2008	\$70,357
Sedivec, Kevin Gearhart, Amanda - Hettinger REC Schauer, Chris - Hettinger REC	Medora County Grazing Association	Monitoring Data Collection of the Vegetation of the Medora District of the Dakota Prairie National Grasslands	\$25,000
Sedivec, Kevin Gearhart, Amanda - Hettinger REC Schauer, Chris - Hettinger REC	USDA/Forest Service/Dakota Prairie Grasslands	Monitoring Data Collection of the Vegetation of the McKenzie District of the Dakota Prairie National Grasslands	\$30,000
Sedivec, Kevin Gearhart, Amanda - Hettinger REC Schauer, Chris - Hettinger REC	USDA/Forest Service/Dakota Prairie Grasslands	Monitoring Data Collection of the Vegetation of the Medora District of the Dakota Prairie National Grasslands	\$25,000
Stoltenow, Charles	USDA/CSREES/Purdue University	North Central Animal Agrosecurity Conference	\$25,000

Animal and Range Sciences Total: \$1,238,799

Carrington REC

Investigator(s)	Agency	Project Title	Awarded
Aberle, Ezra	ND Soybean Council	Impact of Tillage System and Previous Crop on Soybean Production	\$4,600
Albus, Walt	ND Corn Utilization Council	Efficient Corn Production Using Strip-till and Advanced Nitrogen Management	\$18,500
Albus, Walt	Cass County Soil Conservation District	No-till Crop Rotation and Nitrogen Study - Ayr, North Dakota	\$1,717

Section III: Grant Detail**28**

Anderson, Vern	Ralco Nutrition, Inc.	Evaluation of CoMax on Performance of Early Gestating Cows and Suckling Calf Pairs	\$5,000
Anderson, Vern	ND Soybean Council	Evaluation of Glycerol as an Energy Source in Feedlot Diets	\$44,325
Endres, Gregory	ND Corn Utilization Council	Research Trials and Education for Producers	\$2,000
Lee, DoKyoung	ND Barley Council	Nitrogen Management for Irrigated Malting Barley	\$13,600
Lee, DoKyoung	ND Soybean Council	Do Intensive Management Practices Increase Net Return for Soybean Producers?	\$25,600
Schatz, Blaine	USDA/ARS	Sunflower Head Rot Screening and Fungicide Evaluation/Strengthening Sclerotinia	\$95,610
Schatz, Blaine	Northern Pulse Growers Association	Core Set Evaluation of Pulse Crop Varieties at NDSU Reseach Extension Centers	\$17,640
Schatz, Blaine	Garrison Diversion Conservancy District	Oakes Irrigation Research Site	\$15,000
Schatz, Blaine	USDA/ARS/University of Nebraska-Lincoln	A Search for Improved Resistance in Common Bean through Multi-site Screening and Pathogen Characterization	\$1,500
Schatz, Blaine	Garrison Diversion Conservancy District	Oakes Irrigation Research Stie	\$175,000
Schatz, Blaine	Northern Pulse Growers Association	Core Set Evaluation of Pulse Crop Varieties at NDSU Research Extension Centers	\$17,640
Schatz, Blaine	Pioneer Hi-Bred International, Inc.	Canola Sclerotinia Testing	\$3,368
Schatz, Blaine	Syngenta	Invinsa Evaluation on Spring Wheat and Soybean	\$17,160
Wiederholt, Ron	EPA/ND Department of Health	Nutrient Management Educational Information and Assistance Program	\$101,455
Wiederholt, Ron	EPA/ND Department of Health	Nutrient Management Educational Information and Assistance Program, Discovery Farms	\$142,222

Section III: Grant Detail**29**

Zwinger, Steven	Northern Plains Sustainable Agriculture Society	Development of Northern Plains Sustainable Agricultural Society's Farmer Breeder Club	\$10,000
Zwinger, Steven	USDA/Natural Resources Conservation Service/Rodale Institute	Organic No-till: Testing, Refining and Promoting a Cover Crop Production System	\$10,000
Carrington REC Total:			\$721,937

Center for 4-H Youth Development

Investigator(s)	Agency	Project Title	Awarded
Cogdill, Brad	USDA/CSREES/Kansas State University	Military 4-H Grant and Operation	\$30,000
Cogdill, Brad	ND Game and Fish Department	Archery in the Schools	\$4,600
Cogdill, Brad	Bulls Eye 4-H Archery Club	Archery in the Schools	\$1,331
Cogdill, Brad	ND Game and Fish Department	Archery in the Schools	\$14,615
Cogdill, Brad	DOI/ND Game and Fish Department	Archery in the Schools	\$5,550
Courneya, Louis Joseph	ND Game and Fish Department	Archery in the Schools	\$13,800
Center for 4-H Youth Development Total:			\$69,896

Center for Community Vitality

Investigator(s)	Agency	Project Title	Awarded
Tweeten, Kathleen	ND Department of Commerce	Beginning Again North Dakota Pilot Program	\$26,661
Center for Community Vitality Total:			\$26,661

Central Grasslands Research Center

Investigator(s)	Agency	Project Title	Awarded
Nyren, Paul Leistriz, Larry - Agribusiness & Applied Economics	ND Agricultural Products Utilization Commission	Agronomics, Product Evaluation, and Production Economics of Biofuel Feedstocks in Central and Western North Dakota	\$40,000

Section III: Grant Detail			30
Nyren, Paul	ND Natural Resources Trust	Enhancing Rangeland Ecosystems through Rangeland Monitoring and Improved Management	\$10,000
Central Grasslands Research Center Total:			\$50,000

Cereal and Food Sciences

Investigator(s)	Agency	Project Title	Awarded
Chang, Sam K.C.	ND Soybean Council	Improving Soy Food Quality for Enhancing Health	\$100,000
Cereal and Food Sciences Total:			\$100,000

Child Development and Family Science

Investigator(s)	Agency	Project Title	Awarded
Gebeke, Debra	DHHS/ND Department of Human Services	Family Life Education Project	\$155,500
Pankow, Debra	DOEd/National Council on Economic Education	ND Jump\$tart Financial Literacy Training for Teachers	\$11,633
Pankow, Debra	USDA/CSREES/University of Nebraska-Lincoln	Financial Security for All Community of Practice Leadership	\$15,000
Pankow, Debra	National Endowment for Financial Education	North Dakota High School Financial Planning Program	\$2,000
Child Development and Family Science Total:			\$184,133

Dickinson REC

Investigator(s)	Agency	Project Title	Awarded
Ashley, Roger	DOI/Bureau of Land Management	Addendum to Native Grassland Restoration Project-conversion of Introduced Cool Season Tame Grasses to Native	\$20,000
Ashley, Roger	DOI/Bureau of Land Management	Addendum to Native Grassland Restoration Project-conversion of Introduced Cool Season Tame Grasses to Native	\$13,000
Dvorak, Teresa	EPA/ND Department of Health	Nutrient Management Educational Information and Assistance Program - Dickinson	\$90,242
Kutka, Frank	USDA/CSREES/University of Minnesota	North Dakota/South Dakota SARE Plan of Work for 2007-2008	\$100,000

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Landblom, Douglas	USDA/CSREES/South Dakota State University	Alternate Beef Grazing Strategies to Improve Ranch Profitability and Rural Community Sustainability	\$19,687
Landblom, Douglas	USDA/NRCS	Forage-base Beef Production Strategies for Western North Dakota	\$71,524
Landblom, Douglas	Ridley Block Operations	Poured Processed Creep Block Intake Study	\$12,000
Landblom, Douglas	Ridley Block Operations	Effect of DDGS Substitution for Hay when Fed Pre and Post-calving on Cow Condition, Cow and Calf Performance and Reproductive Performance	\$7,500
Manske, Llewellyn	DOI/Bureau of Land Management	Prairie Ecosystem Restoration	\$6,500
Pederson, Lisa	ND Beef Commission	Beef 101: From Calves to Carcasses	\$10,080
Radtke, Nadine	Dakota West RC&D	Livestock Facilities Assistance Program Livestock Waste Management Project	\$109,875
Ringwall, Kris	Dickinson State University	Ag Education and Research Consortium	\$6,379
Dickinson REC Total:			\$466,787

Entomology

Investigator(s)	Agency	Project Title	Awarded
Boetel, Mark A.	USDA/ARS	Characterization of Diapause, Cold Tolerance and Diversity in Pest and Beneficial Insects using Pysiological and Molecular Methods	\$24,000
Boetel, Mark A.	Sugarbeet Research and Education Board of MN and ND	Sugarbeet Insect Biology and Control	\$68,950
Boetel, Mark A.	Beet Sugar Development Foundation	Evaluation of NPGS Accessions for Resistance to Sugarbeet Root Maggot	\$3,000
Harris, Marion	USDA/ARS	Molecular Characterization of Pest Resistance Genes on Chromosome 3D in Synthetic Wheat	\$50,140
Harris, Marion	USDA/Forest Service	Insect Pollinators of the Western Prairie Fringed Orchid	\$6,000

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Knodel, Janet	ND Wheat Commission	Orange Wheat Blossom Midge	\$5,500
Knodel, Janet	ND Soybean Council	Optimizing Control of Soybean Aphid in North Dakota	\$21,580
Knodel, Janet	ND Crop Improvement and Seed Association	Optimizing the Identification and Development of High-yield Spring Wheats with Resistance to the Wheat Stem Sawfly	\$13,260
Knodel, Janet	National Sunflower Association	Screening Sunflower for Reaction to Sunflower Midge Infestation	\$5,321
Knodel, Janet	National Sunflower Association	Development of Resistance to Stem and Seed Insect Pests of Sunflower in the Central Plains	\$55,000
Knodel, Janet	National Sunflower Association	Determination of the Biology, Impact, Economic Threshold, and Pest Management Strategies for the Sunflower Seed Maggot, Neotephritis Finalis in the Northern Plains Sunflower Production Region	\$6,515
Knodel, Janet	Northarvest Bean Growers Association	Grower Survey of Pest Problems, Pesticide Use, and Varieties	\$4,500
Ode, Paul Knodel, Janet	ND Soybean Council	Biological Control and Aphid Resistant Cultivars	\$23,104
Rider, David Fauske, Gerald M	ND Department of Agriculture	NDSU Entomology Wood Borer Survey	\$8,000
Entomology Total:			\$294,870

Extension Administration

Investigator(s)	Agency	Project Title	Awarded
Hauck, Duane	USDA/CSREES/Auburn University	Youth Development Specialist	\$135,072
Haugen, Roger	University of Minnesota	Sugarbeet Specialists	\$148,365
Haugen, Roger	University of Minnesota	Potato Specialist	\$47,700
Haugen, Roger	MN Area II Potato Growers	Potato Specialist	\$12,500

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Haugen, Roger	MN Area II Potato Growers	Potato Specialist	\$12,500
Haugen, Roger	University of Minnesota	Potato Specialist	\$44,768
Haugen, Roger	University of Minnesota	Sugarbeet Specialist	\$129,026
Extension Administration Total:			\$529,931

Extension County Programs

Investigator(s)	Agency	Project Title	Awarded
Schmidt, Richard Kemmet, Dena	DOE/NASULGC	4-H Youth Education Project - Department of Engery	\$3,800
Schmidt, Richard Kemmet, Dena	DOE/NASULGC	4-H Youth Education Project: Department of Energy	\$5,488
Tweten, Margaret	DOEd/ND Department of Public Instruction/Richland Public School District	Richland County Consortium for the 21st Century Funds	\$54,539
Extension County Programs Total:			\$63,827

Health, Nutrition, and Exercise Sciences

Investigator(s)	Agency	Project Title	Awarded
Garden Robinson, Julie	Midwest Dairy Council	On the Move: Banking on Strong Bones	\$5,000
Garden Robinson, Julie	Northarvest Bean Growers Association	Eat Smart - Play Hard	\$1,500
Garden Robinson, Julie	ND Wheat Commission	Eat Smart - Play Hard	\$300
Garden Robinson, Julie	ND School Nutrition Association	Eat Smart - Play Hard	\$500
Garden Robinson, Julie	ND Beef Commission	Eat Smart - Play Hard	\$2,000
Garden Robinson, Julie	ND Dietetic Association	Eat Smart - Play Hard	\$1,000

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Garden Robinson, Julie	ND Nutrition Council	Eat Smart - Play Hard	\$1,000
Garden Robinson, Julie	Blue Cross/Blue Shield of North Dakota	Eat Smart - Play Hard	\$6,000
Garden Robinson, Julie	Midwest Dairy Council	Eat Smart - Play Hard	\$1,000
Garden Robinson, Julie	March of Dimes - ND Chapter	Increasing Awareness of the Issue of Prematurity through Public Service Committee Action - 2008	\$1,000
Garden Robinson, Julie	ND Nutrition Council	Teens Serving Food Safely	\$500
Garden Robinson, Julie	Spina Bifida Association	Folic Acid Now	\$7,500
Garden Robinson, Julie	Dakota Medical Foundation	Folic Acid Every Day	\$10,000
Garden Robinson, Julie	American Heart Association	Eat Smart - Play Hard: On the Move to Better Health	\$7,000
Garden Robinson, Julie	ND School Nutrition Association	Eat Smart - Play Hard	\$500
Garden Robinson, Julie	Northarvest Bean Growers Association	Eat Smart - Play Hard	\$1,000
Garden Robinson, Julie	NDSU Development Foundation	Eat Smart - Play Hard	\$20,000
Garden Robinson, Julie	Blue Cross/Blue Shield of North Dakota	Eat Smart - Play Hard	\$6,000
Garden Robinson, Julie	ND Nutrition Council	Eat Smart - Play Hard	\$1,000
Garden Robinson, Julie	Midwest Dairy Council	Eat Smart - Play Hard	\$1,000
Garden Robinson, Julie	Northern Canola Growers Association	Eat Smart - Play Hard	\$1,500
Garden Robinson, Julie	ND Wheat Commission	Eat Smart - Play Hard	\$1,000

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Holes-Dickson, Barb Hochhalter, Jeanne - Food & Nutrition - Extension	USDA/FNS/ND Department of Human Services	North Dakota Family Nutrition Program	\$1,636,535
Tande, Desiree L.	Fargo Public Schools	Wellness Program Implemented in a Midwest Public School System	\$2,000
Tande, Desiree L.	Dakota Medical Foundation	Dining with Diabetes North Dakota Style	\$5,000
Tande, Desiree L.	Fargo Public Schools	Fargo Public Schools Carol M. White	\$1,000

Health, Nutrition, and Exercise Sciences Total: \$1,720,835

Hettinger REC

Investigator(s)	Agency	Project Title	Awarded
Faller, Timothy Bergman, Jerald - Williston REC Eriksmoen, Eric Halvorson, Mark - North Central REC Nyren, Paul - Central Grasslands Research Center Pryor, Scott - Agricultural & Biosystems Engineering Schatz, Blaine - Carrington REC	USDA/ARS	Environmental and Economic Consequence of Bio-mass Feedstock Production in the Northern Great Plains	\$72,000
Schauer, Chris Stamm, Michele	USDA/ARS	Sustainable Value Added Animal Production Systems for Northern Great Plains States	\$122,816
Schauer, Chris Stamm, Michele	USDA/ARS	Sustainable Value Added Animal Production Systems for Northern Great Plains States	\$14,000
Schauer, Chris	Grand River Cooperative Grazing District, Inc.	Baseline Vegetation Data Collection - Grand River National Grasslands: Grand River Grazing Association	\$5,000
Schauer, Chris	USDA/Forest Service	Baseline Vegetation Data Collection Grand River National Grassland	\$35,000
Thompson, Michele Schauer, Chris	ND Corn Utilization Council	Impacts of a Corn Distillers Natural Feeding System on Growth Performance, Carcass Characteristics, and Production Costs of Spring Born Calves	\$4,000

Hettinger REC Total: \$252,816

Langdon REC

Investigator(s)	Agency	Project Title	Awarded
Halley, Scott	USDA/ARS	Developing Managing Strategies to Reduce Effects of FHB in the Great Plains; and/or Regional Uniform Scab Nursery - Langdon Location	\$53,143
Langdon REC Total:			\$53,143

North Central REC

Investigator(s)	Agency	Project Title	Awarded
Fisher, Jay	USDA/CSREES	Federally Recognized Tribes Extension Program on Fort Berthold Indian Reservation	\$102,633
Jenks, Brian	USDA/CSREES/Michigan State University	2007 Food Use Project - Determination of Pesticide Residues in or on Commodities	\$8,800
Jenks, Brian	Northern Canola Growers Association	Impact of Preceding Crops on Incidence and Severity of Disease in Canola	\$9,650
Jenks, Brian	ND Oilseed Council	Impact of Preceding Crops on Incidence and Severity of Disease in Canola	\$7,500
Jenks, Brian	ND Oilseed Council	Impact of Preceding Crops on Incidence and Severity of Disease in Canola	\$7,788
Jenks, Brian	Northern Pulse Growers Association	Evaluation of New Weed Control Options in Pulse Crops in North Dakota and Montana	\$12,500
Jenks, Brian	Northern Canola Growers Association	Impact of Preceding Crops on Incidence and Severity of Disease in Canola	\$9,842
Jenks, Brian	Northern Canola Growers Association	Canola Agronomic Survey of North Dakota and Minnesota	\$14,000
Jenks, Brian	MN Canola Council	Canola Agronomic Survey of North Dakota and Minnesota	\$1,500
Markle, Denise	USDA/CSREES/Michigan State University	2007 Food Use Projects - Minor Crop Pest Management Program	\$8,800
North Central REC Total:			\$183,013

Plant Pathology

Investigator(s)	Agency	Project Title	Awarded
Adhikari, Tika Berzonsky, William - Plant Sciences Kianian, Shahryar - Plant Sciences	USDA/ARS	Effect of Inoculum Levels, Host Resistance, Fungicide and Weather on FHB; and/or Effects of Host Plant Resistance and Weather Factors on DON Production and FHB Epidemics Development	\$27,715
Adhikari, Tika	MN Wheat Research and Promotion Council	Assessing Pathogenic Variability of Pyrenophora Tritici-Repentis and Identifying New Sources of Resistance to Major Leaf Spot Pathogens in Winter Wheat and Spring Wheat	\$20,000
Adhikari, Tika	ND Wheat Commission	Identification of New Sources of Resistance to Fungal Leaf Spot Diseases in Wheat Germplasm	\$4,000
Ali, Shaukat	ND Wheat Commission	Assessment of Population Diversity Within and Among the Wheat Leaf Spotting Pathogens and their Sensitivity (resistance) to Fungicides used for their Management in Minnesota and North Dakota	\$5,638
Del Rio Mendoza, Luis Halley, Scott - Langdon REC Schatz, Blaine - Carrington REC	USDA/ARS	Optimizing Chemical Control of Sclerotinia Stem Rot on Canola	\$19,243
Del Rio Mendoza, Luis	USDA/ARS	Developing a Disease-warning System for Sclerotinia Stem Rot of Canola	\$66,157
Del Rio Mendoza, Luis Dai, Wenhao - Plant Sciences	USDA/ARS	Characterization of New Brassica Napus - and Identification of New B. Rapa-plant Introductions as Sources of Resistance to Sclerotinia Sclerotiorum	\$95,943
Del Rio Mendoza, Luis	USDA/ARS	Epidemiological Studies on Sclerotinia Stem Rot in Canola	\$25,885
Del Rio Mendoza, Luis	Northern Canola Growers Association	Acquisition of Growth Chambers for the NDSU Canola Pathology Program	\$11,000
Gudmestad, Neil	USDA/ARS	Development of Resistance to Phytophthora Erythroseptica and Pythium Ultimum Potato using Marker-assisted Selection	\$34,500
Gudmestad, Neil	USDA/ARS	Confirmation of Clavibacter Michiganensis Subsp. Sepedonicus Infections using a Multiplex Real-time PCR Assay for Ring Rot Diagnosis	\$52,416
Gudmestad, Neil	Texas A & M University	An Integrated Approach Towards Understanding and Controlling Zebra Chip Disease in Potatoes	\$70,000

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Gudmestad, Neil	Seed Potato Growers Association of Manitoba	Development of a Robust Real-time PCR Test for Bacterial Ring Rot Diagnosis and Seed Lot Screening	\$10,976
Gudmestad, Neil	MN Area II Potato Growers	Effect of Pink Rot Disease Control and Management of Mefenoxam Resistance in Phytophthora Erythroseptica	\$38,000
Gudmestad, Neil	USDA/ARS	Development of Resistance to Phytophthora Erythroseptica and Pythium Ultimum in Potato using Marker-assisted Selection	\$36,960
Khan, Mohamed	Sugarbeet Research and Education Board of MN and ND	Sugarbeet Extension Programs and Program Maintenance	\$88,000
Khan, Mohamed	Sugarbeet Research and Education Board of MN and ND	Improving Disease Management and Agronomic Practices of Sugarbeet	\$30,000
Kinzer, Kasia Knodel, Janet - Entomology	USDA/CSREES/Kansas State University	Great Plains Diagnostic Network	\$45,000
Markell, Sam	USDA/CSREES/North Carolina State University/Kansas State University	Continued Development of the IPM PIPE Management Tool NCSU Cooperative Agreement with USDA CSREES and USDA RMA	\$22,000
Markell, Sam Nelson, Berlin	ND Soybean Council	Survey of Emerging Soybean Diseases in North Dakota	\$16,284
Markell, Sam	North Central Soybean Research Program	Sentinel Plots to Monitor the Spread of Soybean Rust in the U.S. Soybean Production Regions	\$29,325
Markell, Sam	North Central Soybean Research Program	Improving Management of Soybean Cyst Nematode through Extension Demonstration and Outreach	\$15,000
Markell, Sam	USDA/APHIS/ND Department of Agriculture	Soybean Pest Survey	\$7,500
McMullen, Marcia	USDA/CSREES/North Carolina State University/Kansas State University	National Legume Risk Management Tool Development Project	\$16,320
McMullen, Marcia	USDA/ARS	Collaborative Studies of Fungicides and Application Techniques for Improved Control of Fusarium Head Blight; and/or Studies on Management Strategies and Environmental Factors Affecting FHB and DON in Small Grains, ND	\$89,245

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McMullen, Marcia	USDA/APHIS/ND Department of Agriculture	Wheat Disease Survey	\$10,500
Neate, Stephen Horsley, Richard - Plant Sciences Schwarz, Paul - Plant Sciences	USDA/CSREES/University of Minnesota	Barley Coordinated Agricultural Project: Leveraging Genomics, Genetics, and Breeding for Gene Discovery and Barley Improvement	\$127,130
Neate, Stephen	American Malting Barley Association	Barley Disease and their Control	\$47,800
Neate, Stephen	USDA/ARS	Management and Resistance Sources for Control of FHB in Barley	\$80,991
Neate, Stephen Horsley, Richard - Plant Sciences Schwarz, Paul - Plant Sciences	USDA/CSREES/University of Minnesota	Barley Coordinated Agricultural Project: Leveraging Genomics, Genetics, and Breeding for Gene Discovery and Barley Improvement	\$124,694
Nelson, Berlin	United Soybean Board	Reducing the Impact of Fusarium Root Rot on Soybean Productivity in the United States	\$121,490
Nelson, Berlin	ND Soybean Council	Reproduction of SCN on Resistant and Susceptible Soybean Cultivars	\$24,340
Nelson, Berlin	ND Soybean Council	Control of Soybean Diseases	\$50,330
Nelson, Berlin	ND Soybean Council	Effect of Soil Type on Soybean Cyst Nematode	\$6,975
Rasmussen, Jack	USDA/ARS	Pathogen-barley Interactions	\$35,500
Rasmussen, Jack	USDA/ARS	Development of Sunflower Germplasm with Sclerotinia Head and Stalk Rot Resistance	\$88,266
Rasmussen, Jack	USDA/ARS	Molecular Characterization of the TSN1 Locus in Wheat	\$45,000
Rasmussen, Jack	National Sunflower Association	Distribution of Two Verticillium Strains in the Northern Great Plains and Evaluation of Resistance in Commercial Hybrids, USDA Germplasm and Wild Helianthus	\$6,042
Rasmussen, Jack	USDA/ARS	Pathogen - Barley Interactions	\$49,710

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Rasmussen, Jack	ND Wheat Commission	Intensive Greenhouse Screening of Wheat Line for Resistance of Leaf Rust	\$4,132
Secor, Gary	MN Area II Potato Growers	Understanding and Management of the Tuber Blemish Complex of Potatoes	\$2,000
Secor, Gary	USDA/ARS	Etiology and Biology of a New Potato Disease Complex Exhibiting Purple Top Wilt Syndrome and Characteristic Tuber Symptoms	\$30,400
Secor, Gary	USDA/ARS	The National Blight Trial	\$3,000
Secor, Gary	USDA/ARS	Determination of Causal Agents of a New Potato Disease Complex, Zebra Chip, Exhibiting Purple Top Wilt Syndrome and Characteristic Tuber Symptoms	\$30,000
Secor, Gary	Sugarbeet Research and Education Board of MN and ND	Characterization of a New Fusarium Causing Sugarbeet Yellowing Disease in Minnesota and North Dakota	\$12,160
Secor, Gary	Sugarbeet Research and Education Board of MN and ND	Sensitivity of Cercospora Beticola to Foliar Fungicides in Sugarbeet Fields of Minnesota and North Dakota	\$21,378
Secor, Gary	USDA/ARS	National Late Blight Trials	\$3,000
Zhong, Shaobin	USDA/ARS	Identification and QTL Mapping of Fusarium Head Blight Resistance in Wheat and Durum Wheat	\$30,226
Zhong, Shaobin	USDA/ARS	Genetic Characterization and Utilization of Disease Resistance Genes in Tetraploid Wheat	\$49,460

Plant Pathology Total: \$1,881,631**Plant Sciences**

Investigator(s)	Agency	Project Title	Awarded
Berzonsky, William	ND Wheat Commission	Hard White Spring Wheat Breeder Technician	\$42,000
Cai, Xiwen	USDA/ARS	Development and use of DNA Markers for the Control of Sclerotinia in Sunflower	\$68,293

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Cai, Xiwen	ND Wheat Commission	Cytogenetics	\$10,000
Cai, Xiwen	USDA/ARS	Development of Sclerotinia Resistant Germplasm Utilizing Wild Helianthus Species	\$126,829
Cai, Xiwen Berzonsky, William Zhong, Shaobin - Plant Pathology	USDA/ARS	Characterization of Resistance to Fusarium Head Blight in Wheat and its Relatives; and/or Enhancing Resistance to Fusarium Head Blight in Wheat using Alien Species	\$66,071
Cai, Xiwen	USDA/ARS	Development of Sclerotinia Resistant Germplasm Utilizing Wild Helianthus Species	\$5,000
Cai, Xiwen	ND Wheat Commission	Improving North Dakota Wheat using Alien Genes	\$5,597
Cai, Xiwen	USDA/ARS	Confirmation of Sclerotinia Disease Resistance in Sunflower Lines	\$2,000
Carena, Marcelo J.	USDA/ARS	Development of Early Maturing GEM Lines with Value Added Traits	\$9,756
Carena, Marcelo J.	Pioneer Hi-Bred International, Inc.	Pioneer Fellowship Program	\$25,000
Carena, Marcelo J.	ND Corn Utilization Council	Development of New Early-maturing Products to Increase the Long-term Adaptation in North Dakota Corn	\$120,000
Carena, Marcelo J.	ND Agricultural Products Utilization Commission	Screening Early Maturing Corn Hybrids with Higher Yield and Starch under Drought Stress for Ethanol Utilization	\$75,000
Carter, Jack	AmeriFlax	Salary Support for Jack Carter	\$10,500
Christoffers, Michael	USDA/ARS	Genomic and Genetic Identification of Signal Transduction Pathway Targets Regulating Well-defined Phases of Leafy Spurge	\$117,363
Ciernia, Mark	USDA/CSREES/Michigan State University	Interregional Research Project #4 Minor Crop Pest Management Program	\$30,800
Dai, Wenhao	Landscape Plant Development Center	Developing New Plant Cultivars	\$40,000

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David, Nick	Northern Plains Potato Growers Association	Managing Corky Ringspot Disease of Potato using Vydate C-LV	\$9,000
David, Nick	MN Area II Potato Growers	Cultivar Specific Management Profiles for Red and Yellow Potato Varieties	\$7,500
Dexter, Alan	Sugarbeet Research and Education Board of MN and ND	Support and Assist with the Transition in the Sugarbeet Weed Control Position	\$12,500
Dexter, Alan	Sugarbeet Research and Education Board of MN and ND	Weed Control in Sugarbeet	\$68,000
Elias, Elias	ND Wheat Commission	Expanded Durum Breeding	\$15,000
Elias, Elias Manthey, Frank Zhong, Shaobin - Plant Pathology	USDA/ARS	Identify and Develop Durum Wheat Resistant to Fusarium Head Blight	\$135,436
Hammond, James	ND Oilseed Council	Flax with High Linolenic Acid	\$3,336
Hatterman-Valenti, Harlene	ND Agricultural Products Utilization Commission	NDSU and NDGGA Grape and Vineland Initiative	\$100,000
Hatterman-Valenti, Harlene	MN Area II Potato Growers	Glyphosate Drift to Irrigated Potatoes	\$2,500
Helms, Ted	Syngenta	Identification of New SNP Molecular Markers for Iron Deficiency Chlorosis in Soybean	\$35,750
Helms, Ted	ND Soybean Council	Breeding Aphid Resistant Soybean Cultivars	\$15,000
Helms, Ted	ND Soybean Council	Yield Evaluation of Company Cultivars for Soybean Cyst	\$10,000
Helms, Ted	ND Soybean Council	Screening Company Cultivars for Tolerance to Water Saturated Soil Conditions	\$10,000
Helms, Ted	ND Soybean Council	Breeding of Improved Cultivars and Germplasm	\$110,000
Hinsz, Brent	ND Wheat Commission	Technical and Information Service	\$33,000

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Hinsz, Brent	ND Wheat Commission	Hard Red Spring and Durum Wheat Regional Crop Quality Survey	\$34,000
Hinsz, Brent	ND Wheat Commission	Demo Lab Size Mill - 2nd Year	\$10,000
Hinsz, Brent	MN Wheat Research and Promotion Council	2008 Hard Red Spring Wheat Regional Quality Survey	\$6,500
Horsley, Richard	ND Barley Council	Development of Two-rowed Malting Barley Cultivars for Western North Dakota	\$14,009
Horsley, Richard	ND Barley Council	Development of Six-rowed Feed Barley Cultivars with Multiple Disease Resistance	\$30,835
Horsley, Richard	American Malting Barley Association	Breeding and Genetics of Six-rowed Malting Barley	\$47,000
Horsley, Richard Neate, Stephen - Plant Pathology	USDA/ARS	An Integrated Approach for Developing Scab Resistant Barley	\$213,613
Horsley, Richard	NDSU Development Foundation	Graduate Research Fellowship	\$16,000
Horsley, Richard	ND Barley Council	Development of Feed Barley Cultivars with Multiple Disease Resistance	\$919
Horsley, Richard	ND Barley Council	Development of Two-rowed Malting Barley Cultivars for Western North Dakota	\$2,086
Horsley, Richard	ND Barley Council	Expanded Support for Barley Breeding at North Dakota State University	\$31,000
Horsley, Richard	ND Barley Council	Tractor and GPS System for Barley Improvement Project's New Seeder	\$46,952
Horsley, Richard	American Malting Barley Association	Breeding and Genetics of Six and Two-rowed Malting Barley	\$49,373
Johnson, Burton	USDA/ARS	Agronomic Evaluation of Pennycress	\$15,000
Johnson, Burton	National Sunflower Association	Determination of Physiological Maturity in Sunflower	\$5,000
Kandel, Herman	MN Wheat Research and Promotion Council	Determining Wheat Response to the Tile Drainage in the Red River Valley	\$12,000

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Kandel, Herman	Northarvest Bean Growers Association	Row Spacing and Nitrogen Fertilization Effects on the New Pinto Varieties Lariat and Stampede	\$10,100
Kianian, Shahryar	ND Wheat Commission	Expanded Durum Breeding	\$15,000
Kianian, Shahryar Ghavami, Farhad Mergoum, Mohamed Zhong, Shaobin - Plant Pathology	USDA/ARS	Development of Markers Linked to FHB Resistance in Durum and Hexaploid Wheat; and/or Pedigree Based Association Analysis of Novel Sources of FHB Resistance in Durum Wheat	\$62,002
Kianian, Shahryar	USDA/CSREES	Functional and Regulatory Analysis of the SCS Gene, a Major Locus Affecting Critical Plant Development Pathways in Tetraploid Wheat	\$210,000
Kianian, Shahryar	USDA/CSREES/University of California-Davis	Wheat Applied Genomics	\$95,000
Kianian, Shahryar	NSF	Development of Diploid Wheat (Triticum Monococcum) Deletion Lines for Reserve Genetics	\$24,000
Kianian, Shahryar	NSF	SGER: Relationship Between Chemical Mutagenesis, Mutation Load, and Cell Cycle in Plants	\$49,979
Lee, Chiwon	Ministry of Science and Technology of Korea/Korea Institute of Geosciences and Mineral Resources	Development of Applied Technologies for Eco-soil Products as Sources of Plant Root Substrates	\$20,000
Manthey, Frank	ND Wheat Commission	Durum Wheat Color Study	\$7,500
Manthey, Frank Simsek, Senay	ND Wheat Commission	Acquisition of a High Pressure Liquid Chromatograph - HPLC	\$27,000
Manthey, Frank	ND Wheat Commission	Durum Quality Research Support	\$15,000
McClellan, Phillip Xu, Dianxiang - Computer Science	DHHS/NIH/WoWiWe Instruction Co.	World of Learning - A Multi-user Biology Environment for Discovery-oriented Science Education	\$32,953
McClellan, Phillip	North Central Soybean Research Program	Iron Deficiency Chlorosis: Getting to the Root of the Problem	\$153,231
McClellan, Phillip	North Central Soybean Research Program	Iron Deficiency Chlorosis: Getting to the Root of the Problem	\$153,231

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Mergoum, Mohamed	ND Wheat Commission	Hard Red Spring Wheat Breeding Program	\$15,000
Mergoum, Mohamed Cai, Xiwen Zhong, Shaobin - Plant Pathology	USDA/ARS	Hastening the Development of Specialty Spring Wheats with Resistance to Fusarium Head Blight; and/or Combining Resistance Sources to Produce FHB Resistant Speciality Spring Wheat Varieties	\$33,907
Mergoum, Mohamed Berzonsky, William Elias, Elias Kianian, Shahryar Zhong, Shaobin - Plant Pathology	USDA/ARS	Development of Hard Red Spring Wheat Cultivars Resistant to Scab and/or Breeding Adapted Spring Wheat for Scab Resistance	\$133,207
Mergoum, Mohamed	MN Wheat Research and Promotion Council	Developing Leaf Spot Resistant Hard Red Spring Wheat Cultivars Adapted for Western Minnesota and Eastern North Dakota	\$30,000
Mergoum, Mohamed	USDA/Foreign Agricultural Services	Norman E. Borlaug International Ag Science and Technology Fellows Program for Egypt	\$17,996
Mergoum, Mohamed	ND Wheat Commission	Breeding for Leaf Spot Resistance in Hard Red Spring Wheat	\$6,667
Mergoum, Mohamed	ND Wheat Commission	Introgression of Valuable Traits into Adapted HRS using Efficient and Rapid Modern Methods	\$8,000
Meyer, Dwain	Midwest Forage Association	Fall Harvest of Alfalfa: Impact on Stand Density, Forage Yield, and Forage Quality	\$2,000
Olson, Truman	Montana Wheat and Barley Committee	2008 Hard Red Spring and Durum Wheat Regional Crop Quality Survey	\$10,200
Olson, Truman	U.S. Wheat Associates	2007 Hard Red Spring and Durum Wheat Regional Crop Quality Survey	\$23,969
Osorno, Juan	Northarvest Bean Growers Association	Dry Bean Improvement for the Northern Plains	\$147,500
Ransom, Joel	ND Corn Utilization Council	North Dakota Corn Growers, Producer Education	\$2,000
Ransom, Joel	USDA/ARS	FHB Control by Management and Cultivar Resistance	\$22,859
Schwarz, Paul	ND Barley Council	Institute of Barley and Malt Sciences Information Specialist	\$40,000

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Schwarz, Paul	American Malting Barley Association	Malting and Brewing Quality of Barley	\$20,000
Schwarz, Paul	ND Barley Council	2007 Barley Crop Quality Survey	\$10,500
Schwarz, Paul	USDA/ARS	Malting Barley Deoxynivalenol Diagnostic Services	\$146,459
Schwarz, Paul	ND Barley Council	Institute of Barley and Malt Sciences	\$36,000
Schwarz, Paul	Cargill	Institute of Barley and Malt Sciences - Western North Dakota Production Specialist	\$10,000
Schwarz, Paul	Busch Ag Resources Inc.	Institute of Barley and Malt Sciences - Western Production Specialist	\$10,000
Schwarz, Paul	American Malting Barley Association	Institute of Barley and Malt Sciences - Western Production Specialist	\$15,000
Simsek, Senay	ND Agricultural Products Utilization Commission	Refrigerated Dough: A Novel End-use Market for HRS Wheat	\$7,500
Simsek, Senay Mergoum, Mohamed	ND Wheat Commission	Mixolab: Is it a New Tool to Evaluate Bread-making Quality of HRSW	\$13,500
Simsek, Senay	ND Wheat Commission	Speciality Wheat Quality Reminder	\$36,500
Simsek, Senay	ND Wheat Commission	Speciality Wheat Quality Research Support	\$15,000
Simsek, Senay	MN Wheat Research and Promotion Council	Evaluation of HRS Wheat Grown in Minnesota for Refrigerated Dough Production	\$14,500
Thompson, Asunta (Susie)	Canadian Snack Food Association	Development of Chip Processing Potato Cultivars with Long-term Storage Capabilities and Cold Sweetening Resistance	\$20,711
Thompson, Asunta (Susie)	National Potato Promotion Board	Development of Cold-chipping Potato Cultivars for Long-term Storage Potential	\$7,020
Thompson, Asunta (Susie)	MN Area II Potato Growers	Potato Breeding and Cultivar Development for the Northern Plains	\$15,000

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Thompson, Asunta (Susie)	Canadian Horticultural Council	Development of Chip Processing Potato Cultivars with Long-term Storage Capabilities and Cold Sweetening Storage	\$43,500
Thompson, Asunta (Susie)	NDSU Development Foundation	Breeding for Resistance to PCN or GN in Potatoes	\$3,270
Thompson, Asunta (Susie)	USDA/ARS	Localization of Gene Expression Associated with Tuber Periderm Maturation and Quality	\$1,000
Thompson, Asunta (Susie)	USDA/ARS	Localization of Gene Expression Associated with Tuber Periderm Maturation and Quality	\$47,221
Thompson, Asunta (Susie)	USDA/ARS	Localization of Gene Expression Associated with Tuber Periderm	\$5,100
Thostenson, Andrew	EPA	Administration and Enhancement of Pesticide Applicator Training and Certification	\$48,000
Thostenson, Andrew	USDA/CSREES	Pesticide Applicator Training Program	\$21,363
Zollinger, Richard	USDA/CSREES/Michigan State University	IR-4 Liasion Activity	\$2,000
Zollinger, Richard	Bayer CropScience	Soybean Field Trial for LibertyLink Soybeans	\$2,400
Zollinger, Richard	National Sunflower Association	Sunflower Response to KIH-485	\$3,000
Zollinger, Richard	Pioneer Hi-Bred International, Inc.	Optimum GAT Trial	\$10,000

Plant Sciences Total: \$3,788,363**Soil Science**

Investigator(s)	Agency	Project Title	Awarded
Akyuz, F. Adnan	USDA/Economic Research Service	Climate Change Impact on Growing Seasons and Crop Selection in the Northern Plains	\$50,000
Akyuz, F. Adnan	American Crystal Sugar Company	Operation and Maintenance of NDAWN Weather Stations	\$9,130

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Casey, Frank DeSutter, Tom Khan, Eakalak - Civil Engineering & Construction Oduor, Peter - Geosciences	NSF	Effects of Animal Manure Storage and Disposal on the Fate and Transport of Manure-bone Hormones	\$374,848
Casey, Frank	DOI/Bureau of Reclamation	Effects of Iron Bacteria on Subsurface Tile Drains: Influence on Hydraulic Efficiency and Nutrient Transport	\$42,500
Cihacek, Larry	DOE/University of North Dakota/Ducks Unlimited Inc.	Field Validation of Terrestrial Carbon Sequestration	\$107,986
Dekeyser, Edward Norland, Jack Sedivec, Kevin Zeleznik, Joe - Plant Sciences	EPA/ND Department of Health/Red River Regional Council	Maintenance of Natural Sustainable Riparian Communities Located within the Middle Sheyenne Watershed	\$54,844
DeSutter, Tom Cihacek, Larry	Electric Power Research Institute/Ohio State University	Evaluation of Flue Gas Desulfurization (FGD) Gypsum on Sodium-dispersed Clays in North Dakota	\$15,750
DeSutter, Tom Casey, Frank	NSF	Acquisition of a Direct Mercury Analyzer	\$36,900
DeSutter, Tom Cihacek, Larry	Electric Power Research Institute/Ohio State University	Evaluation of Flue Gas Desulfurization (FGD) Gypsum on Sodium-dispersed Clays in North Dakota	\$15,750
Goos, Robert Jay	ND Soybean Council	Screening Soybean Varieties for Resistance to Iron Deficiency Chlorosis	\$30,952
Hopkins, David	USDA/NRCS/University of Idaho	Contract to Format North Dakota Soil Profile Description and Laboratory Characterization Data into a National Database	\$18,000
Overstreet, Laura	Sugarbeet Research and Education Board of MN and ND	Soil Management for Sugarbeet Production	\$79,567
Soil Science Total:			\$836,227

Veterinary and Microbiological Sciences

Investigator(s)	Agency	Project Title	Awarded
Pruess, Birgit	NDSU Development Foundation	Genetics of Biofilm Formation	\$4,540
Wolf-Hall, Charlene Tobias, Dennis - Veterinary & Microbiological Sciences	Ohio State University	Multiplex, Quantitative, Real-time PCR for Rapid Detection, Identification and Quantification of Mycotoxigenic Fusarium ssp. in Durum Wheat	\$50,000

Veterinary and Microbiological Sciences Total: \$54,540

Veterinary Diagnostic Services

Investigator(s)	Agency	Project Title	Awarded
Barigye, Robert Gibbs, Penelope - Veterinary & Microbiological Sciences	NDSU Development Foundation	Proteomic Profiling and Antigenic Characterization of Multidrug-resistant Escherichia Coli Strains Recovered from Scouring Calves	\$4,000
Barigye, Robert Gibbs, Penelope - Veterinary & Microbiological Sciences	NDSU Development Foundation	Proteomic Profiling and Antigenic Characterization of Multidrug-resistant Escherichia Coli Strains Recovered from Scouring Calves	\$5,000
Dyer, Neil	DHHS/CDC/ND Department of Health	West Nile Surveillance - Epidemiology and Laboratory Capacity	\$25,000
Dyer, Neil	DHHS/CDC/ND Department of Health	PHEP/Laboratory	\$15,000
Dyer, Neil	DHHS/CDC/ND Department of Health	Epidemology and Laboratory Capacity	\$30,799
Mostrom, Michelle	USDA/ARS	Diagnostic Services for Vomitoxin (DON) in Wheat	\$76,628
Veterinary Diagnostic Services Total:			\$156,427

Williston REC

Investigator(s)	Agency	Project Title	Awarded
Bergman, Jerald Bradbury, Lorna	Williams County Water Resources District	Water Well for Horticulture Research at Williston Research Extension Center	\$5,000
Bergman, Jerald	Williams County Water Resources District	Nesson Valley Irrigated Research and Demonstration Project - Automate Third Linear	\$15,000
Riveland, Neil Miller, Michael	ND Oilseed Council	Purchase of a Nuclear Magnetic Resonance (NMR) Oil Analyzer	\$27,000
Riveland, Neil	ND Wheat Commission	Selection of Hard Winter Wheat Cultivars Adapted to North Dakota	\$1,333
Williston REC Total:			\$48,333

Agriculture Experiment Station and Extension Service Total:	\$16,161,686
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College of Arts, Humanities and Social Sciences
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Communication

Investigator(s)	Agency	Project Title	Awarded
Littlefield, Robert	DHS/University of Minnesota	Homeland Security Center for Post-harvest Food Protection	\$28,300
Littlefield, Robert	DHS/University of Minnesota	Assessing Message Effectiveness with Diverse Cultural Groups based on Learning Styles	\$79,240
Communication Total:			\$107,540

Criminal Justice and Political Science

Investigator(s)	Agency	Project Title	Awarded
McDonald, Thomas	DOJ/MN Department of Public Safety/Clay County	Re-entry Services Project	\$5,776
Thompson, Kevin	DHHS/ND Department of Human Services	State Epidemiological Outcomes Workgroup Evaluation Proposal	\$15,337
Criminal Justice and Political Science Total:			\$21,113

History/Religious Studies

Investigator(s)	Agency	Project Title	Awarded
Isern, Thomas	National Endowment of the Arts	The Great Plains from Texas to Saskatchewan: Place, Memory, Identity	\$110,924
History/Religious Studies Total:			\$110,924

Sociology/Anthropology

Investigator(s)	Agency	Project Title	Awarded
Klenow, Daniel	DHS/FEMA	Emergency Management Theory Course Treatment	\$2,500
Klenow, Daniel	Cass County Emergency Management	Cass County Multi-hazard Mitigation Plan	\$5,000
Kloberdanz, Timothy	ND Council on the Arts	Researching and Integrating the Folklore and Folk Art Traditions of North Dakota and the Northern Great Plains: A Special Compilation Project - Phase III	\$4,167

Sociology/Anthropology Total: \$11,667

College of Arts, Humanities and Social Sciences Total:	\$251,244
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College of Engineering and Architecture

Architecture and Landscape Architecture

Investigator(s)	Agency	Project Title	Awarded
Wiley, Catherine	DOI/Bureau of Land Management	Homestake Magazine Reuse	\$11,000

Architecture and Landscape Architecture Total: \$11,000

Civil Engineering and Construction

Investigator(s)	Agency	Project Title	Awarded
Abdelrahman, Magdy Katti, Dinesh - Civil Engineering & Construction	MN Department of Transportation	Investigation of Stripping in Minnesota Class7 (RAP) and Full Depth Reclamation Base Materials	\$7,983
Bezbaruah, Achintya	NDSU Development Foundation	Exploratory Research on Herbicides Picloram and Fungicide Benomyl Degradation in the Presence of Zero-valent Iron Nanoparticles	\$4,000
Khan, Eakalak	District of Columbia Water and Sewer Authority	Fate and Characteristics of Biodegradable Dissolved Organic Nitrogen in Treated Waste Water	\$45,973
Khan, Eakalak	NSF	Integrated Interdisciplinary Nanotechnology Research and Education on Fundamentals and Applications of Cell Entrapment of Water Pollution Control	\$106,518
Kim, Yail (Jimmy)	Tri-College University	A Geographical Information System (GIS) on Identifying Sources of Bridge Deterioration in the Fargo/Moorhead Region	\$1,000
Smith, Gary	ND Department of Career and Technical Education	Bison Best Robotics	\$10,000

Civil Engineering and Construction Total: \$175,474

Electrical and Computer Engineering

Investigator(s)	Agency	Project Title	Awarded
Lima, Ivan Kavasseri, Rajesh - Electrical & Computer Engineering Pieri, Robert - Mechanical Engineering & Applied Mechanics Spiering d'Eustachio, Kerry - VP Academic Affairs	DOEd	U.S. - Brazil Engineering Education Consortium on Renewable Energy Resources	\$29,997
Schroeder, Mark	Bobcat Company	Senior Design Projects with Bobcat Company	\$6,000
You, Chao	NDSU Development Foundation	3M Non-tenured Faculty Award	\$15,000
Electrical and Computer Engineering Total:			\$50,997

Industrial and Manufacturing Engineering

Investigator(s)	Agency	Project Title	Awarded
Yadav, Om Prakash	TRW Foundation	Network Modeling and Representation of System Interaction Failures during Product Development	\$20,000
Yadav, Om Prakash	TRW Automotive	Reliability Assessment of Belt Drive System for Steering	\$8,620
Industrial and Manufacturing Engineering Total:			\$28,620

Mechanical Engineering and Applied Mechanics

Investigator(s)	Agency	Project Title	Awarded
Kallmeyer, Alan	General Electric Company	Evaluation of Multiaxial Fatigue Parameters for Aircraft Engine Materials	\$61,398
Kallmeyer, Alan	DOD/AFOSR	Development of Nonlinear Cumulative Fatigue Damage Methodology for Aircraft Engine Components under Multiaxial Loadings	\$104,035
Mahmud, Zakaria	NASA/University of North Dakota	Integrated Flow Control on Low Pressure Turbine Blades using Active and Synthetic Jets	\$21,803
Tangpong, Annie X. W.	NASA/University of North Dakota	Analysis of Friction Damping in Nanocomposites	\$22,722

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Ulven, Chad Wiesenborn, Dennis - Agribusiness & Applied Economics Zhong, W. H. Katie - Mechanical Engineering & Applied Mechanics	USDA/CSREES	Acquisition of Dynamic Mechanical Analyzer to Upgrade Research Infrastructure	\$32,650
Ulven, Chad Kallmeyer, Alan - Mechanical Engineering & Applied Mechanics Karami, Ghodratollah - Mechanical Engineering & Applied Mechanics	DOD/Department of the Navy/SpaceAge Synthetics, Inc.	Lightweight Composite Solutions for the Spartan SCOUT, an Unmanned Navy Patrol Vessel	\$225,281
Ulven, Chad	AGCO Corporation	Integration of Composite Materials into Sprayer Boom Design - Year 2	\$17,580
Ulven, Chad	Composites Innovation Centre, Manitoba Inc.	Flax Fibre Quality Assessment Protocols - Testing and Evaluation	\$17,895
Ulven, Chad	ND Corn Utilization Council	Development of Corn Fibers from DDGs for Reinforcement of Polymer Matrix Composites	\$20,960
Ulven, Chad	Composites Innovation Centre, Manitoba Inc.	Flax Fibre Quality Assessment Protocols - Testing and Evaluation	\$2,200
Ulven, Chad	Composites Innovation Centre, Manitoba Inc.	Flax Fibre Grading Project - Continuity Funding for Additional Tasks	\$19,985

Mechanical Engineering and Applied Mechanics Total: \$546,509

College of Engineering and Architecture Total:	\$812,600
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College of Human Development and Education

Apparel, Design, Facility Hospitality Management

Investigator(s)	Agency	Project Title	Awarded
Ray-Degges, Susan	Interior Design Educators Council	IDEC Strategic Initiative: Advancement of Interior Design Education	\$1,200

Apparel, Design, Facility Hospitality Management Total: \$1,200

Child Development and Family Science

Investigator(s)	Agency	Project Title	Awarded
Carlson, Thomas McGeorge, Christine - Child Development & Family Science	Otto Bremer Foundation	Equal Opportunity Therapy Project II: Serving our Latino Community	\$50,000
Fitzgerald, Margaret Chromy, Barbara - Child Development & Family Science Sanders, Gregory - Child Development & Family Science	ND Department of Human Services	Aging and Mental Health Education: Mental Health Clinician Training	\$49,795
Habedank, Deb	USDA/ND Department of Public Instruction	USDA Child and Adult Care Food Program	\$5,605
Hektner, Joel	DHHS/NIH	Pilot Test Adapted Intervention to Prevent Youth Violence	\$192,375
Child Development and Family Science Total:			\$297,775

Education

Investigator(s)	Agency	Project Title	Awarded
Duffield, Stacy Borr, Mari	NSF/Bismarck Public School District #1	Engineering Technology Competencies: Integrating Curriculum and Forging Pathways - Third Year External Evaluation	\$8,000
Duffield, Stacy Wageman, Justin	DOEd/Fargo Public Schools	Teaching American History	\$22,000
Enger, Kathy Bornsen, Susan Larson-Casselton, Cindy - Communication Ostrom-Blonigen, Jean - Communication	Tri-College University	Collaborative: Leadership Assessment Comparability Across our Tri-college University: Assessment Analysis at Concordia College, Moorhead State University - Moorhead, and North Dakota State University	\$1,000
Schmidt, Mark Eighmy, Myron	DHHS/First Choice Clinic	Subcontract for the Program Evaluation of the Community Based Abstinence Education Grant First Choice Clinic, Fargo, ND, Funded by the U.S. Department of Health and Human Resources	\$62,967
Wageman, Justin	DOEd/ND Department of Public Instruction	North Dakota Curriculum Initiative	\$188,727
Wageman, Justin	DOEd/ND Department of Public Instruction/Dickinson State University	Evaluation of Cogitating Mathematics and Science Through the Western North Dakota Mathematics/Science Partnership	\$2,500

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Wageman, Justin	DOEd/ND Department of Public Instruction	North Dakota Curriculum Initiative	\$12,000
Education Total:			\$297,194

Health, Nutrition, and Exercise Sciences

Investigator(s)	Agency	Project Title	Awarded
Strand, Bradford	Athletic Republic	Graduate Assistants at Athletic Republic	\$6,630
Strand, Bradford	Concordia College	Graduate Assistants at Concordia College	\$13,260
Strand, Bradford	Blue Cross/Blue Shield of North Dakota	Graduate Assistants at BlueCross BlueShield	\$13,260
Strand, Bradford	Mayville State University	Graduate Assistants at Mayville State University	\$15,000
Strand, Bradford	The Forum	Graduate Assistants at The Forum	\$3,000
Strand, Bradford	Valley City State University	Graduate Assistants at Valley City State University	\$10,404
Strand, Bradford	Valley City State University	Graduate Assistants at Valley City Sate Universlty	\$2,268
Health, Nutrition, and Exercise Sciences Total:			\$63,822

College of Human Development and Education Total:	\$659,991
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College of Pharmacy, Nursing and Allied Sciences**Dean Office: College of Pharmacy, Nursing and Allied Sciences**

Investigator(s)	Agency	Project Title	Awarded
Peterson, Charles	St. Alexius Medical Center	Clinical Pharmacy Teaching Program	\$134,463
Rathke, Ann	DHHS/HRSA/Avera Health	Great Plains Telehealth	\$12,500

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Rathke, Ann	DHHS/HRSA/Avera Health	Great Plains Telehealth	\$12,500
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Dean Office: College of Pharmacy, Nursing and Allied Sciences			\$159,463
Total:			

Nursing

Investigator(s)	Agency	Project Title	Awarded
McCullagh, Marjorie	Great Plains Center for Agriculture Health/NIOSH/ND Farm Bureau Foundation	Farmers' Preferences for Selection of Hearing Protection Devices	\$1,500
Stenson, Jana	NDSU Development Foundation	Evaluation of In-home Services for the Elderly in North Dakota	\$20,000

Nursing Total:	\$21,500
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Pharmaceutical Sciences

Investigator(s)	Agency	Project Title	Awarded
Mallik, Sanku	DHHS/NIH	Development of Chemical Receptors for Proteins	\$77,261
Mallik, Sanku	NSF	Development of Polymerized Liposomes for Protein Recognition	\$130,000
Qian, Steven Y.	DHHS/NIH	Endogenous Radicals, Hepatic Lipid Peroxidation, and ALD	\$105,840
Singh, Jagdish	DHHS/NIH	Controlled Delivery of Insulin	\$71,250
Singh, Jagdish	Fraternal Order of Eagles	Gene Delivery to Prevent Diabetes	\$11,000
Singh, Jagdish	DHHS/NIH	Controlled Delivery of Insulin	\$69,825
Sun, Chengwen	DHHS/NIH	Apelin: A Novel Neural Regulator of Cardiovascular Functions	\$690
Sun, Chengwen	American Heart Association	Long Term Blood Pressure Regulation: Angiotensin II and GABA	\$236,269

Pharmaceutical Sciences Total:	\$702,135
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Pharmacy Practice

Investigator(s)	Agency	Project Title	Awarded
Patnaude, Lawrence	3M Foundation	Support of Native American Pharmacy Program	\$5,000
Schmitz, Tara	Pfizer, Inc.	NDSU Homecoming Seminar Cardiovascular Health	\$3,000
Schmitz, Tara	Merck Pharmaceuticals	NDSU Homecoming Seminar - Cardiovascular Health	\$1,500
Schmitz, Tara	AstraZeneca	NDSU Homecoming Seminar - Cardiovascular Health	\$2,500
Schmitz, Tara	Novo Nordisk, Inc.	Diabetes Certificate Program	\$5,250
Schmitz, Tara	Merck Pharmaceuticals	NDPhA Pharmacy Convention	\$3,000

Pharmacy Practice Total: \$20,250

College of Pharmacy, Nursing and Allied Sciences Total: \$903,348
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College of Science and Mathematics**Biological Sciences**

Investigator(s)	Agency	Project Title	Awarded
Bleier, William	Crop Protection Harmonization and Registration Board	Expanding the Labeled use of DRC-1339-Treated Rice Baits for Roadside Gravel Roads to Include State Certified Pesticide Applicators	\$76,502
Bleier, William	USDA/APHIS	Development of Damage Control Methods for Sunflower Fields and Feedlots	\$111,548
Butler, Malcolm	MN Department of Natural Resources	Forested Wetlands Hydrology	\$15,000
Clark, Mark	DOI/Fish and Wildlife Service	Effects of Nest Density and Yolk Resources on Offspring Performance in Franklin's Gulls (Larus pipixcan)	\$2,200

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Clark, Mark	USDA/CSREES/Michigan State University	North Dakota NCRAC Representation	\$1,000
Sheridan, Mark	NSF	REU Supplement: Extrapituitary Effect of Somatostatins on Growth	\$6,000
Sheridan, Mark	NSF	Extrapituitary Effects of Somatostatins on Growth	\$135,000
Stockwell, Craig	DOI/National Park Service	Lake Ecology and Population Dynamics of Mohave Tui Chub	\$39,700

Biological Sciences Total: \$386,950**Center for Science and Mathematics**

Investigator(s)	Agency	Project Title	Awarded
Schwert, Donald Montplaisir, Lisa - Biological Sciences	DHHS/NIH/NIGMS/University of North Dakota	North Dakota Bridges to Baccalaureate	\$68,288

Center for Science and Mathematics Total: \$68,288**Chemistry and Molecular Biology**

Investigator(s)	Agency	Project Title	Awarded
Burghaus, Uwe	NSF	CAREER: Chemical Activity of Cooper Oxide and Gold Nano Model Array Catalysts towards CO Oxidation	\$351,713
Burghaus, Uwe	NASA/University of North Dakota	Adsorption of Water on Simulated Moon Dust Samples	\$13,349
Burghaus, Uwe	DOE/University of North Dakota	Advances in the Fundamental Understanding of Coal Combustion Emission Mechanism - ND DoE EPSCoR IIP	\$15,000
Cook, Gregory	NSF	Stereoselective Indium-mediated Reactions for Organic Synthesis	\$124,000
Cook, Gregory	NSF	Stereoselective Indium-Mediated Reactions for Organic Synthesis	\$124,000
Dorsam, Glenn	DHHS/NIH	Heterochromatin Recruitment of VPACR-1 lucos by Ikaros	\$108,000

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Hershberger, John	DOE	Kinetics and Product Channel Studies in Combustion Chemistry	\$89,574
Hershberger, John	DOE/University of North Dakota	Advances in the Fundamental Understanding of Coal Combustion Emission Mechanisms	\$45,617
Jayaraman, Sivaguru	NSF	Imprinting Molecular Chirality in Solution during Photo Transformations	\$115,000
Liu, Guodong	DOE/Battelle	Nanomaterial based Electrochemical Sensors and Biosensor for Biomonitoring Organophosphate Pesticides, Heavaly Metal Exposures	\$30,000
Liu, Guodong	DOE/PNNL/Battelle	Portable Analyzer for On-site Monitoring of Worker Exposure to Toxic Metal	\$20,000
Mallik, Sanku Srivastava, D. K. - Biochemistry and Molecular Biology	DHHS/NIH	Lipid Nanoparticle Mediated Detection and Inhibition of Matrix Metalloproteinases	\$287,803
Sibi, Mukund	DHHS/NIH/NCRR	New Strategies for Targeting Protease in Disease	\$2,078,000
Cook, Gregory - Chemistry & Molecular Biology Dorsam, Glenn - Chemistry & Molecular Biology Dorsam, Sheri - Chemistry & Molecular Biology			
Sibi, Mukund	NSF	Chiral Relay: A Powerful Strategy for Enantioselective Transformations	\$155,000
Sibi, Mukund	DHHS/NIH	Acyclic Stereocontrol in Radical Reactions	\$258,697
Sibi, Mukund Cook, Gregory - Chemistry & Molecular Biology Dorsam, Glenn - Chemistry & Molecular Biology Guo, Bin - Pharmaceutical Sciences Haring, Jodie - Chemistry & Molecular Biology Schuh, Jane - Veterinary & Microbiological Sciences	DHHS/NIH/NCRR	New Strategies for Targeting Protease in Disease	\$2,063,514
Sibi, Mukund	NSF	Chiral Relay: A Powerful Strategy for Enantioselective	\$130,000
Srivastava, D.K.	DHHS/NIH	Catalysis and Inhibition of Gelatinases	\$245,603
Sun, Wenfang	DOD/US Army Material Command	Organic/Organometallic Hybrids as Broadbanded Nonlinear Transmission Materials	\$121,866

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Sun, Wenfang	DOD/US Army Material Command	Organic/Organometallic Hybrids as Broadband Nonlinear Transmission Materials	\$127,730
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Chemistry and Molecular Biology Total: \$6,504,466

Coatings and Polymeric Materials

Investigator(s)	Agency	Project Title	Awarded
Gelling, Victoria Johnston	Technology Applications Group, Inc.	Magnesium Corrosion	\$4,000
Gelling, Victoria Johnston	Winthrop & Weinstine, PA	Corrosion of Acid/Base Cleaned Aluminum Samples	\$7,286
Voronov, Andriy Goos, Robert Jay - Soil Science	ND Soybean Council	New Iron Fertilizers for Soybeans Based on "Smart" Polymers	\$17,520
Webster, Dean C.	DOD/USAF/Luna Innovations, Inc.	Non-toxic Rapid Cure Liquid Shim for Aerospace Applications	\$3,000
Webster, Dean C.	DOD/AFOSR/Luna Innovations, Inc.	Synthesis and Characterization of Novel Flexible Glycidyl Carbamate Functional Polymers	\$31,778
Webster, Dean C. Croll, Stuart - Coatings & Polymeric Materials	USDA/CSREES	Novel Biobased Materials for Environmentally Compliant Protective Coatings	\$464,079
Webster, Dean C. Chen, Zhigang - VP RCATT/CNSE Chisholm, Bret - VP RCATT/CNSE	ND Soybean Council	Novel Soybean Oil Based Ultraviolet Light Curable Coating Materials	\$82,073
Coatings and Polymeric Materials Total:			\$609,736

Computer Science

Investigator(s)	Agency	Project Title	Awarded
Du, Xiaojiang	NSF	Towards Robust and Self-healing Heterogeneous Wireless Sensor Networks	\$122,376
Du, Xiaojiang	NSF	Towards Robust and Self-healing Heterogeneous Wireless Sensor Networks	\$71,528
Magel, Kenneth	Microsoft Corporation	Fellowship for Dietmar Dorr from Microsoft Research Foundation	\$15,000

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Slator, Brian Daniels, Lisa - Education Saini-Eidukat, Bernhardt - Geosciences Schwert, Donald - Geosciences Terpstra, Jeff - Statistics	NSF	Pilot Project: Research on Serious Games for Geoscience Education	\$76,025
Xu, Dianxiang	NASA/University of Texas-Dallas	Testing for Software Safety	\$25,000
Xu, Dianxiang	NASA/University of North Dakota	Automated Generation of Safety Tests	\$13,053

Computer Science Total: \$322,982

Geosciences

Investigator(s)	Agency	Project Title	Awarded
Lepper, Kenneth	DOI/USGS	Optically Stimulated Luminescence Dating of Lake Huron Beach Ridges	\$25,900
Lepper, Kenneth	NASA	The Optical Dating Response of Mars Sediment Analogs including Geologic Salts to Simultaneous UV/VIS Irradiation	\$59,940
Lepper, Kenneth	Comer Science and Education Foundation	Developing a Direct Depositional Chronology for the Shores of Glacial Lake Agassiz using Optically Stimulated Luminescence Dating	\$21,570

Geosciences Total: \$107,410

Mathematics

Investigator(s)	Agency	Project Title	Awarded
Alfonseca, Maria	NSA/Association for Women in Mathematics	Sonia Kovalevsky Day	\$2,400
Comez, Dogan	NSF	GraSUS-II	\$372,328
Coykendall, Jim Duncan, Benton	NSF/Mathematical Association of America	Regional Undergraduate Mathematics Conference	\$1,200
Hass, Lonnie	ND Department of Public Instruction	2007 Governor's Schools in Business/Entrepreneurship, Mathematics, Laboratory Sciences and Visual Arts	\$3,222

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Hass, Lonnie	ND Department of Public Instruction	2008 Governor's Schools in Business/Entrepreneurship, Mathematics, Laboratory Sciences and Performing Arts	\$160,000
Hass, Lonnie	ND Department of Public Instruction	2008 Governor's Schools in Business/Entrepreneurship, Mathematics, Laboratory Sciences and Performing Arts	\$30,956
McCaul, Kevin	NDSU Development Foundation	Vaccinations to Prevent Cervical Cancer: A Community Inventory	\$20,000
Mathematics Total:			\$590,106

Physics

Investigator(s)	Agency	Project Title	Awarded
Ihle, Thomas Kroll, Daniel	NSF	Mesoscale Simulations of Complex Liquids	\$155,000
Ihle, Thomas	American Chemical Society	Simulating the Spontaneous Emulsification of Oil/Water/Surfactant Mixtures	\$40,000
May, Sylvio	NSF	Electrostatics of Soft Biomolecular Assemblies	\$40,000
May, Sylvio	NSF	Electrostatics of Soft Biomolecular Assemblies	\$40,000
Physics Total:			\$275,000

Psychology

Investigator(s)	Agency	Project Title	Awarded
Hinsz, Verlin	NSF/Cleveland State University	Group Influences on Approach and Avoidance Motivation	\$87,752
McCourt, Mark	DHHS/NIH/NCRR	Center for Visual Neuroscience	\$1,646,824
Psychology Total:			\$1,734,576

College of Science and Mathematics Total:	\$10,599,514
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University Miscellaneous Offices

Office of the President/ND Forest Service

Investigator(s)	Agency	Project Title	Awarded
Berg, Thomas	EPA/Red River Regional Council	FY 2007 Red River Riparian Project	\$47,933
Berg, Thomas	EPA/Red River Regional Council	FY 2007 Red River Riparian Project	\$56,342
Claeys, Thomas	DOT/FHA/ND Department of Transportation	FY 2008 Storm Tree Replacement Program - STR Northwood	\$50,000
Claeys, Thomas	DOT/FHA/ND Department of Transportation	FY 2008 Community Transportation Enhancement Program	\$67,026
Claeys, Thomas	USDA/Forest Service	FY 2008 Forest Inventory and Analysis Field Support and Ozone Survey	\$4,253
Claeys, Thomas	DOT/FHA/ND Department of Transportation	FY 2008 TE Living Snow Fence	\$119,823
Claeys, Thomas	DOT/FHA/ND Department of Transportation	FY 2008 Storm Tree Replacement Program	\$8,000
Claeys, Thomas	DOT/FHA/ND Department of Transportation	FY 2009 TE Living Snow Fence	\$15,000
Claeys, Thomas	DOT/FHA/ND Department of Transportation	FY 2009 Community Transportation Enhancement Program	\$10,000
Claeys, Thomas	EPA/ND Department of Health/Red River Regional Council	FY 2008 Red River Riparian Project	\$111,656
Claeys, Thomas	USDA/Forest Service	FY 2008 US Forest Service Fuels for Schools	\$20,000
Claeys, Thomas	ND Department of Agriculture	FY 2009 North Dakota Department of Agriculture Emerald Ash Borer Survey Project	\$3,466
Claeys, Thomas	ND Department of Agriculture	FY 2009 North Dakota Department of Agriculture Gypsy Moth Detection Survey	\$3,980
Geyer, David	USDA/Forest Service	FY 2007 USDA-FS Hazardous Fuel Reduction	\$67,000

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Geyer, David	DOI/Bureau of Land Management	FY 2007 BLM Rural Fire Assistance	\$89,000
Geyer, David Claeys, Thomas	DOI/Bureau of Land Management	FY 2008 BLM Rural Fire Assistance	\$50,000
Kotchman, Larry Claeys, Thomas	USDA/Forest Service	FY 2007 Consolidated Payment Grants for Cooperative Forestry Assistance	\$160,000
Kotchman, Larry	USDA/Forest Service	FY 2007 Emergency Wildlife Fire Supression	\$242,000
Kotchman, Larry	USDA/Forest Service	FY 2008 Emergency Wildlife Fire Supression	\$496,636
Kotchman, Larry Claeys, Thomas Fauske, Glenda Geyer, David Kangas, Michael	USDA/Forest Service	FY 2008 Consolidated Payment Grants for Cooperative Forestry Assistance	\$1,996,500
Office of the President/ND Forest Service Total:			\$3,618,615

VP Academic Affairs/Continuing Education

Investigator(s)	Agency	Project Title	Awarded
Olson, Nancy	United Way of Cass-Clay	United Way Cass-Clay	\$589
Olson, Nancy	St. Alexius Medical Center	St. Alexius Volunteer Transportation	\$2,400
Olson, Nancy	Jamestown United Way	United Way of Jamestown	\$1,000
Olson, Nancy	United Way of Richland-Wilkin	United Way of Richland-Wilkin	\$1,500
Olson, Nancy	Minnesota Board on Aging	Retired and Senior Volunteer Program	\$4,804
Olson, Nancy	Missouri Slope United Way	United Way Missouri Slope	\$23,500
Olson, Nancy	Stark County Council on Aging	Stark County for RSVP	\$3,401

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Olson, Nancy	Corporation for National and Community Service	AmeriCorps*VISTA	\$82,000
Olson, Nancy	Morton County	Morton County for RSVP	\$12,714
Olson, Nancy	Burleigh County	Burleigh County for RSVP	\$14,000
Olson, Nancy	City of Dickinson	City of Dickinson for RSVP	\$41,316
Olson, Nancy	United Way of Dickinson	United Way of Dickinson	\$6,000
Olson, Nancy	Ronald McDonald House Charities	Ronald McDonald House	\$2,500
Olson, Nancy	Cass County Commission	Cass County	\$4,000
Olson, Nancy	United Way of Grand Forks	United Way of Grand Forks/East Grand Forks	\$3,300
Olson, Nancy	MedCenter One	St. Alexuis Volunteer Transportation	\$2,400
Olson, Nancy	Souris Valley United Way	Souris Valley United Way	\$6,000
Olson, Nancy	Corporation for National and Community Service	NDSU RSVP	\$347,133
Olson, Nancy	United Way of Cass-Clay	United Way Cass-Clay	\$15,751

VP Academic Affairs/Continuing Education Total: \$574,308

VP Academic Affairs/ITS

Investigator(s)	Agency	Project Title	Awarded
French, Jody	DOEd/ND Department of Public Instruction	EduTech Support for NDATL from NDDPI	\$15,000
French, Jody	ND Association of Technical Leaders	EduTech Support for NDATL from NDATL	\$16,000

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Gerst, Jeffery	ND Department of Agriculture	Agriculture Education in the Virtual Classroom	\$2,500
Gerst, Jeffery	ND Department of Agriculture	Agriculture Education in the Virtual Classroom	\$1,250
VP Academic Affairs/ITS Total:			\$34,750
VP Academic Affairs/Wellness Center			
Investigator(s)	Agency	Project Title	Awarded
Oliver, Dagny	DHHS/CDC/ND Department of Health/Fargo Cass Public Health	Community Health Grant - NDSU Community Tobacco Plan	\$6,500
VP Academic Affairs/Wellness Center Total:			\$6,500
VP Business and Finance/Facilities Management			
Investigator(s)	Agency	Project Title	Awarded
Boyer, Raymond Adams, John - VP Business & Finance	DOJ/ND Bureau of Criminal Investigations	Bulletproof Vest Partnership	\$3,400
VP Business and Finance/Facilities Management Total:			\$3,400
VP RCATT/Center for Surface Protection			
Investigator(s)	Agency	Project Title	Awarded
Battocchi, Dante	DOE/US Automotive Materials Partnership	Study of TAG Brush Anodizing Process and Corrosion Evaluation of Several Anodizing Processes for Magnesium Pretreatment	\$50,000
Bierwagen, Gordon	DOD/AFOSR	Corrosion Protection of Aluminum Alloys used in Aircraft	\$22,247
Bierwagen, Gordon	DOD/AFOSR	Characterization, Modeling, and Accelerating Emulation of Aircraft Coating Exposure and Degradation	\$30,341
Gelling, Victoria Johnston	Hercules Incorporated, Aqualon Group	Evaluation of Alodine EC2	\$37,110
VP RCATT/Center for Surface Protection Total:			\$139,698

VP RCATT/CNSE

Investigator(s)	Agency	Project Title	Awarded
Bahr, James Noah, Matt	Aldevron, LLC	High Throughput Lysis and Plasmid Purification Apparatus - Phase I	\$10,000
Chisholm, Bret	NSF/Seashell Technology	Abrasion Resistant Ultrahydrophobic Coatings for Corrosion, Erosion and Wear Prevention	\$45,641
Chisholm, Bret Bierwagen, Gordon - Coatings & Polymeric Materials	DOD/AFOSR/SeaShell Technologies LLC	Ultrahydrophobic Coatings - Year 2	\$107,998
Chisholm, Bret	Sandia Corporation	The Development of Structure, Process, Property Relationships for Novel Porous Polymers	\$50,000
McCarthy, Gregory	DOD/ONR	Advanced Marine Coatings for Naval Vessels - Phase VI	\$6,550,000
McCarthy, Gregory	DOD/DMEA	Center of Excellence for Microsensor Systems - MSS Phase VI	\$4,800,000
McCarthy, Gregory	DOD/DARPA	Micro Isotope Power Source	\$90,000
McCarthy, Gregory	DOD/DMEA	Technology Base Center of Excellence for the Chameleon Sensor Network Program - Phase VI	\$2,500,000
McCarthy, Gregory	DOD/DMEA	Electronics and Materials for Flexible Substrates and Transponders	\$2,778,082
Noah, Matt Ahmad, Syed	Bobcat Company	Bobcat Xenoy ACD and ACS Controllers 50 Day Test 15898 Project	\$6,498
Noah, Matt Jacobson, Andrew	Bobcat Company	Bluetooth I/O - Phase I	\$8,874
Noah, Matt	Bobcat Company	Fan Vibration	\$5,000
Noah, Matt Jacobson, Andrew	Bobcat Company	Bluetooth I/O - Phase II	\$19,443
Noah, Matt	Bobcat Company	Fan Noise	\$9,100

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Noah, Matt	Bobcat Company	Bluetooth I/O - Phase I	\$2,148
Noah, Matt Jacobson, Andrew	Bobcat Company	Leaky Wires - Phase I	\$31,934
Noah, Matt	Bobcat Company	Bobcat - Bluetooth I/O - Phase IIB	\$1,893
Noah, Matt Bunzow, David Croll, Stuart - Coatings & Polymeric Materials	Bobcat Company	Bobcat - E-Coat Bulk Tank Materials Analysis and Characterization	\$13,480
Pavicic, Mark	DOD/DMEA	Conformal Computing - Phase I	\$1,070,000
Pavicic, Mark	DOD/DMEA	Conformal Computing - Phase II: Supplemental Funding	\$100,000
Reinholz, Aaron	DOD/DMEA	Demonstration Product Development for Micro-sentinel System Program: Crane CSN - Phase VI	\$660,460
Reinholz, Aaron	DOD/DMEA	Demonstration Product Development for Columbia System Program: Crane CSN - Phase IV	\$164,645
Reinholz, Aaron	Multiple Sponsor/3M Foundation	Prototype Passive RFID Reader System with Extended Capabilities	\$63,500
Reinholz, Aaron	DOD/DARPA	Micro Isotope Power Source	\$622,539
Schulz, Douglas Dai, Xuliang Han, Sijin	REC Group	Evaluation of Polysilane	\$85,199
Schulz, Douglas	Sandia Corporation	Novel Routes to Silicon Solar Cells	\$25,000

VP RCATT/CNSE Total: \$19,821,434**VP RCATT/ND Water Resources Research Institute**

Investigator(s)	Agency	Project Title	Awarded
Padmanabhan, G.	DOI/USGS	North Dakota Water Resources Research Institute	\$92,335

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Padmanabhan, G.	ND State Water Commission	North Dakota Water Resources Research Institute Graduate Fellowship Program Support	\$13,850
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VP RCATT/ND Water Resources Research Institute Total: \$106,185

VP Research, Creative Activities and Technology Transfer

Investigator(s)	Agency	Project Title	Awarded
Boudjouk, Philip	NDUS	Advancing Science Excellence in North Dakota	\$1,412,500
Boudjouk, Philip	State of North Dakota, Center of Excellence	Center for Surface Protection	\$2,000,000

VP Research, Creative Activities and Technology Transfer Total: \$3,412,500

VP Student Affairs/Multicultural Student Services

Investigator(s)	Agency	Project Title	Awarded
Walette, Jaclynn Davis	NSF/Salish Kootenai College	All Nations LSAMP Program	\$20,268

VP Student Affairs/Multicultural Student Services Total: \$20,268

VP Student Affairs/Orientation and Student Success

Investigator(s)	Agency	Project Title	Awarded
Oster-Aaland, Laura	DHHS/NIH	Responding to Consequences of High-risk Drinking at NDSU	\$236,455
Oster-Aaland, Laura	ND Department of Human Services	Town Hall Meeting	\$500

VP Student Affairs/Orientation and Student Success Total: \$236,955

VP Student Affairs/TRIO Programs

Investigator(s)	Agency	Project Title	Awarded
Cuadrado, Babette	DOEd	Child Care Access Means Parents in School - CCAMPIS	\$64,000
Kostecki, Allyn	DOEd	Student Support Services	\$402,621

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Modin, Kay	DOEd	McNair Scholars Program	\$254,317
Steele, Bruce	DOEd	Veterans Upward Bound	\$273,279
VP Student Affairs/TRIO Programs Total:			\$994,217
University Miscellaneous Offices Total:			\$28,968,830

Upper Great Plains Transportation Institute
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Upper Great Plains Transportation Institute

Investigator(s)	Agency	Project Title	Awarded
Berreth, Gary	ND Department of Transportation	North Dakota LTAP Project	\$120,000
Berreth, Gary	ND Insurance Reserve Fund	North Dakota LTAP Project	\$20,000
Berreth, Gary	DOT/FHWA	North Dakota LTAP Project	\$140,000
Berreth, Gary	ND Department of Transportation	North Dakota LTAP Project	\$7,175
Berreth, Gary	Associated General Contractors of North Dakota	Development of Flagger Training Handbook and Electronics Training Module/CD	\$13,860
Berwick, Mark Lantz, Brenda Vachal, Kimberly	DOT/FMCSA	Comparative Analysis of the United States and Canada Carrier Safety Ratings	\$81,225
Birst, Shawn	Fargo-Moorhead Metro COG	Evaluating Metro Area Transit Signal Priority Demonstration - Phase I	\$4,535
Birst, Shawn	Fargo-Moorhead Metro COG	9th - 57th Traffic Projects and Simulation Analysis	\$6,496
Birst, Shawn	Grand Forks - East Grand Forks MPO	School Safety Study for Lake Agassiz Elementary, South Middle School, Phoenix Elementary	\$10,000
Birst, Shawn	ND Department of Transportation	Tri-level Ramp Operation Study	\$14,892

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Birst, Shawn	Fargo-Moorhead Metro COG	Interstate Operations Study - Technical Assistance	\$50,000
Birst, Shawn	Fargo-Moorhead Metro COG	North Moorhead Growth Area Plan and Alternative Urban Areawide Review	\$1,139
Birst, Shawn	Grand Forks - East Grand Forks MPO	Regional ITS Architecture Update	\$8,291
Griffin, Gene	DOT	Rural Transportation Initiative	\$387,259
Hough, Jill	Community Transportation Association of America	National Consortium on the Coordination of Human Services Transportation with CTTA	\$18,760
Hough, Jill	DOT/FTA	North Dakota State University Transit Center for Small Urban Area	\$1,200,000
Hough, Jill	DOT	UTC Title III	\$246,000
Johnson, Kurt D	ND Department of Transportation	ND Department of Transportation Support Center - 2008	\$610,761
Lantz, Brenda	DOT/FMCSA	Development of FMCSA Field System Software	\$638,000
Lantz, Brenda	Science Applications International Corporation	COMPASS	\$32,077
Lantz, Brenda	Science Applications International Corporation	COMPASS	\$1,306
Lantz, Brenda	DOT/FMCSA	Development of FMCSA Field System Software	\$500,000
Lantz, Brenda	DOT/FMCSA/Science Applications International Corporation	COMPASS - Task Order 6	\$7,871
Lantz, Brenda	DOT/FMCSA/Science Applications International Corporation	COMPASS - Task Order 7	\$10,667
Lantz, Brenda	DOT/FMCSA	Development of FMCSA Field System Software	\$350,000
Lantz, Brenda	DOT/Computer Science Corporation	Inspection Selection System Support - Task Order 4	\$6,182

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Mielke, Jon	ND Department of Transportation	Generating Public Involvement in Transportation Policy and Funding Decision Making Processes	\$25,000
Ripplinger, David	ND Department of Transportation	Roughrider Travel Management Coordination Center - Development and Design	\$50,000
Ripplinger, David	ND Department of Transportation	NDInfo.Org Hosting, Maintenance and Improvement	\$30,000
Ripplinger, David	ND Department of Transportation	NDInfo.Org Hosting, Maintenance and Improvement	\$10,000
Rodriguez, Julene	ND Department of Transportation	Transportation Learning Network (TLN)	\$280,861
Rodriguez, Julene	ND Department of Transportation	Transportation Learning Network (TLN)	\$290,096
Smadi, Ayman	Grand Forks - East Grand Forks MPO	2035 Base + Confirmed Future Network Model Run	\$703
Smadi, Ayman	Fargo-Moorhead Metro COG	South Fargo Bridge Scenarios Re-runs	\$827
Smadi, Ayman	Bismarck-Mandan Metropolitan Planning Organization Transportation	Bismarck-Mandan Regional ITS Architecture Update	\$8,000
Smadi, Ayman	Bismarck-Mandan Metropolitan Planning Organization Transportation	Regional North/South Corridor Traffic Projections	\$1,053
Smadi, Ayman	Fargo-Moorhead Metro COG	64th Avenue South and 25th Street South Corridor Analysis	\$2,440
Smadi, Ayman	MN Department of Transportation/Athey Creek Consultants, LLC	North/West Passage - Phase III	\$23,089
Smadi, Ayman	Grand Forks - East Grand Forks MPO	2035 Recommended Future Network Model Run	\$774
Smadi, Ayman	MN Department of Transportation	North/West Passage Pooled Fund Study Website Support and Maintenance	\$4,792
Smadi, Ayman	ND Department of Transportation	Advanced Traffic Analysis Center	\$399,853
Tolliver, Denver	DOT	Regional UTC - Mountain/Plains Consortium	\$1,645,700

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Tolliver, Denver	ND Department of Transportation	North Dakota Highway Needs Study	\$100,000
Tolliver, Denver	DOT	Regional UTC - Mountain-Plains Consortium	\$1,686,000
Vachal, Kimberly	USDA/AMS	Agricultural Transportation Center; and/or Agricultural Transportaiton Information Center for Research and Policy	\$100,000
Vachal, Kimberly Logfren, Mark VanWechel, Tamara	ND Department of Transportation	Rural Transportation Safety and Security Center	\$324,610
Vachal, Kimberly Berwick, Mark	ND Wheat Commission	North Dakota Wheat Commission Transportation Research	\$36,000
VanWechel, Tamara Vachal, Kimberly	ND Department of Transportation	Traffic Safety Issues in North Dakota - Phase I, Driver Knowledge, Attitides, Behavior and Beliefs Focus Group: Young Male Drivers	\$20,000
VanWechel, Tamara Vachal, Kimberly	ND Department of Transportation	Traffic Safety Issues in North Dakota - Phase II, Driver Knowledge, Attitude, Behavior and Beliefs Focus Group: Young Male Drivers	\$30,000
VanWechel, Tamara	Tri-College University	Conveying Traffic Safety Messages to North Dakota Teens	\$1,000
Wright, Carol	ND Department of Transportation	North Dakota State Transit Management Plan - Revision	\$25,000

Upper Great Plains Transportation Institute Total: \$9,582,294

Upper Great Plains Transportation Institute Total: \$9,582,294

University Total: \$68,001,042

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