

AWARD REPORT

August 2018

PI Name	PI College	PI Department	Co-PI(s)	Awarded Amount		Title	Sponsor Name
William Wilson	AES & EXT	AES Agribusiness & Applied Economics		\$	20,000.00	Strategy and Analysis of GM Wheat Collaborations	ND Wheat Commission
William Wilson	AES & EXT	AES Agribusiness & Applied Economics		\$	18,000.00	Market Development Support	ND Wheat Commission
William Wilson	AES & EXT	AES Agribusiness & Applied Economics	David Bullock	\$	40,000.00	Marketing Consulting and Research Projects	ND Soybean Council
Carolyn Hammer	AES & EXT	AES Animal Science		\$	2,100.00	Histological Optimization of the FcRn in Horses	NDSU Foundation & Alumni Association
Lauren Hanna	AES & EXT	AES Animal Science		\$	4,000.00	Genetic and Epigenetic Factors that Most Influence Ewe Lifetime Production and Product Quality	USDA Agriculture Research Service
Paolo Flores	AES & EXT	AES Carrington Research/Extension Center	Joel Ransom	\$	10,000.00	Mapping in Field Wheat Protein Content using Combine-mounted Protein Sensor and Drone Aerial Imagery	ND Wheat Commission
Michael Wunsch	AES & EXT	AES Carrington Research/Extension Center		\$	9,000.00	Development of Sunflower Germplasm with Sclerotinia Head and Stalk Rot Resistance	USDA Agriculture Research Service
Brian Jenks	AES & EXT	AES North Central Research/Extension Center		\$	25,560.00	2018 Weed Control Research in Dry Pea and Lentil	Northern Pulse Growers Association
Robert Brueggeman	AES & EXT	AES Plant Pathology		\$	78,000.00	Mechanisms of Resistance to Sclerotinia Sclerotiorum and Consequences for Seed Yield in Arabidopsis	USDA Agriculture Research Service
Andrew Friskop	AES & EXT	AES Plant Pathology	Ryan Buetow Joel Ransom John Rickertsen	\$	8,060.00	Evaluation of Fungicide Seed Treatments Under Different Tillage, Crop Rotation and Soil Conditions	ND Wheat Commission
Andrew Friskop	AES & EXT	AES Plant Pathology		\$	4,875.00	Risk Assessment and Management Strategies for Stripe Rust Epidemics in ND	ND Wheat Commission
Zhaohui Liu	AES & EXT	AES Plant Pathology		\$	30,000.00	Transferring of a Resistance Gene from Triticale to Wheat for Bacterial Leaf Streak	ND Wheat Commission
Zhaohui Liu	AES & EXT	AES Plant Pathology		\$	6,690.00	Evaluation of Durum Lines for Reaction to Tan Spot Pathogen Race 4	ND Wheat Commission
Guiping Yan	AES & EXT	AES Plant Pathology		\$	6,001.00	Resistance of Wheat Varieties and Germplasm to the Root-lesion Nematode Pratylenchus Neglectus in North Dakota	ND Wheat Commission

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Shaobin Zhong	AES & EXT	AES Plant Pathology		\$	30,000.00	FHB Resistance in Wheat	ND Wheat Commission
Shaobin Zhong	AES & EXT	AES Plant Pathology		\$	30,000.00	CRISPR/Cas9 Genome Editing	ND Wheat Commission
Shaobin Zhong	AES & EXT	AES Plant Pathology		\$	9,630.50	Acquisition of Goods and Services	Agriculture Research Service
Marisol Berti	AES & EXT	AES Plant Science		\$	61,763.00	Sun Grant Competitive Award 2014	South Dakota State University
Xiwen Cai	AES & EXT	AES Plant Science		\$	111,034.00	Identification and Characterization of Host Resistance Genes from Wheat-related Species for Fusarium Head Blight, Stem Rust, and Hessian Fly	USDA Agriculture Research Service
Xiwen Cai	AES & EXT	AES Plant Science		\$	35,000.00	Enriching the Gene Pool for Wheat Improvement	ND Wheat Commission
Elias Elias	AES & EXT	AES Plant Science		\$	20,200.00	Developing Durum Wheat Germplasm with Low Cadmium Uptake	ND Wheat Commission
Elias Elias	AES & EXT	AES Plant Science		\$	110,000.00	Expand Durum Breeding Project	ND Wheat Commission
Andrew Green	AES & EXT	AES Plant Science		\$	125,000.00	Hard Red Spring Wheat Breeding	ND Wheat Commission
Richard Horsley	AES & EXT	AES Plant Science		\$	4,217.00	Developing Doubled Haploid Inducers for Sunflower using a Mutagenesis Approach	USDA Agriculture Research Service
Kirk Howatt	AES & EXT	AES Plant Science	Caleb Dalley Brian Jenks Michael Ostlie	\$	10,000.00	Preharvest Options for Desiccation of Crop and Weed Biomass in Wheat	ND Wheat Commission
Xuehui Li	AES & EXT	AES Plant Science		\$	10,000.00	Recurrent Genomic Selection to Accelerate Breeding Population Improvement in Spring Wheat	ND Wheat Commission
Xuehui Li	AES & EXT	AES Plant Science		\$	43,080.00	Implementation of Genomic Selection to Improve Yield and Quality in Durum Wheat	ND Wheat Commission
Frank Manthey	AES & EXT	AES Plant Science		\$	9,500.00	Why Gluten Index Varies Across Environments	ND Wheat Commission
Frank Manthey	AES & EXT	AES Plant Science		\$	30,000.00	Identifying Genotypic Differences in Kernel Bleaching of Durum Wheat	ND Wheat Commission
Frank Manthey	AES & EXT	AES Plant Science		\$	40,000.00	Durum Quality Research Support	ND Wheat Commission
Gideon Marais	AES & EXT	AES Plant Science		\$	42,070.00	Improvement of the FHB Resistance of Winter Wheat Grown in the Northern Prairies	USDA Agriculture Research Service

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Gideon Marais	AES & EXT	AES Plant Science		\$	10,000.00	Hard Winter Wheat Breeding Program for the Northern Plains	ND Wheat Commission
Joel Ransom	AES & EXT	AES Plant Science		\$	14,500.00	Response of Newly Released Varieties to High input Management	ND Wheat Commission
Joel Ransom	AES & EXT	AES Plant Science		\$	6,597.00	Developing an Environment Specific Decision Support System to Help Growers Determine an Optimum Seeding Rate for New Wheat Varieties	ND Wheat Commission
Kalidas Shetty	AES & EXT	AES Plant Science	Dipayan Sarkar	\$	35,500.00	Eliciting Processes for Rapid Wound Healing in Cut Seed Using Soluble Chitosan Oligosaccharides	USDA Agriculture Research Service
Senay Simsek	AES & EXT	AES Plant Science		\$	153,158.00	Deoxynivalenol (DON) Analysis in Wheat	USDA Agriculture Research Service
Senay Simsek	AES & EXT	AES Plant Science	Eric Eriksmoen Michael Ostlie Joel Ransom	\$	95,899.00	Determination of the End-use Quality and Functionality of Small Grains Treated with the Crop Desiccant Glyphosate	Ardent Mills
Senay Simsek	AES & EXT	AES Plant Science		\$	58,000.00	Technical and Information Services	ND Wheat Commission
Senay Simsek	AES & EXT	AES Plant Science		\$	58,000.00	Specialty Wheat Quality Research - Technician	ND Wheat Commission
Senay Simsek	AES & EXT	AES Plant Science		\$	58,000.00	HRS and Durum Crop Quality Survey	ND Wheat Commission
Senay Simsek	AES & EXT	AES Plant Science		\$	20,000.00	HRW Quality Research Support	ND Wheat Commission
Senay Simsek	AES & EXT	AES Plant Science		\$	30,000.00	HRS Quality Research	ND Wheat Commission
Senay Simsek	AES & EXT	AES Plant Science		\$	47,000.00	Specialty Wheat Quality Research Support	ND Wheat Commission
Senay Simsek	AES & EXT	AES Plant Science		\$	40,000.00	End Use Market Development Research for Spring Wheat	ND Wheat Commission
Senay Simsek	AES & EXT	AES Plant Science		\$	5,000.00	Kill it Before Mill It: Steam Pasteurization for Inactivation of Microorganisms in HRS Wheat Kernels	ND Wheat Commission
Christina Hargiss	AES & EXT	AES School of Natural Resource Sciences	Jack Norland	\$	71,825.00	Develop and Test Conceptual Model Identifying Major Factors Affecting the Magnitude, Frequency and duration of Cyanobacteria Blooms on Des Lacs NWR, North Dakota	U.S. Fish and Wildlife Service

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Marion Harris	AES & EXT	AES School of Natural Resource Sciences		\$	3,000.00	Developing Durable Resistance to Insect Pests of North Dakota Wheat	ND Wheat Commission
Audrey Kalil	AES & EXT	AES Williston Research/Extension Center	Eric Eriksmoen Austin Link	\$	7,080.00	Deoxynivalenol (DON) Testing for Evaluation of Durum Varieties in Western North Dakota	ND Wheat Commission
Charles Stoltenow	AES & EXT	Extension Ag & NR Admin		\$	5,000.00	Soybean Education Travel Fund	ND Soybean Council
Bruce Schmidt	AES & EXT	Extension Center for Community Vitality		\$	320,223.00	ND Conservation and Watershed Leadership Program	Natural Resources Conservation Service
Elise Regen	AES & EXT	Extension County Programs		\$	83,000.00	Expanding Opportunities for Tribal Youth and Native Agriculture at Fort Berthold	NIFA
Julie Garden-Robinson	AES & EXT	Extension Food & Nutrition		\$	1,000.00	Eat Smart. Play Hard.	Midwest Dairy Council
Lynette Flage	AES & EXT	Extension HD General		\$	12,999.00	Diabetes Prevention Program	ND Department of Health
Janet Knodel	AES & EXT	Extension Plant Pathology		\$	10,000.00	Orange Wheat Blossom Midge Survey	ND Wheat Commission
Mark Jirik	CAFSNR	Northern Crops Institute		\$	28,050.00	Indonesia: Soybean Processing Course	Foreign Agricultural Service
Mark Jirik	CAFSNR	Northern Crops Institute		\$	10,183.00	Commodity Soybean Procurement Management for Importers Course	SD Soybean Association
Nancy Hodur	CAHSS	Center for Social Research		\$	5,000.00	DentaQuest2020/Oral Health Program Evaluation	ND Department of Health
Nancy Hodur	CAHSS	Center for Social Research	Dean Bangsund	\$	17,613.00	Estimating the Economic Contribution of the North Dakota University System	ND University System Office
Jo Miller	CAHSS	Music		\$	3,150.00	3rd Choral Symposium: Relevance	NDSU Foundation & Alumni Association
Benjamin Braaten	CENG	Electrical & Computer Engineering		\$	114,000.00	Electronically Tunable Materials and Devices Using Subwavelength Particles	University of Dayton
Dong Cao	CENG	Electrical & Computer Engineering		\$	299,999.00	A Ultra Effect Composite Power Delivery Architecture for Solar Farm, Data Center, and Electric Vehicle Charging	National Science Foundation
Sudarshan Srinivasan	CENG	Electrical & Computer Engineering		\$	88,549.00	Formal Verification Methodologies and Tools to Ensure Safety of Control Software Used in Infusion Pumps	The National Academies

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Katie Lyman	CHDE	Health, Nutrition & Exercise Science		\$	2,000.00	Comparing Blood Serum Values of Vitamin D and Calcium in Division I Female Athletes	Mid American Athletic Trainers' Association
Stacy Duffield	CHDE	School of Education		\$	600,000.00	Supporting Development of a Teacher Effectiveness System for Teacher Preparation	Bush Foundation
Chengwen Sun	CHP	Pharmaceutical Science	Jagdish Singh	\$	435,000.00	Treatment of Neurogenic Hypertension by delivery of ACE2 across the BBB	National Institutes of Health
Mark Strand	CHP	Pharmacy Practice	Heidi Eukel Elizabeth Skoy Amy Werremeyer	\$	116,468.00	Opioid Misuse and Overdose Risk Prevention in the Community Pharmacy	ND Department of Human Services
Paul Carson	CHP	Public Health	Kylie Hall	\$	126,006.00	North Dakota Immunization Disparities Project	ND Department of Health
Kendra Greenlee	CSM	Biological Science		\$	176,833.00	Physiology of Insect Pollinators	USDA Agriculture Research Service
Jill Hamilton	CSM	Biological Science		\$	10,000.00	Intraspecific Variation and Possible Effects on the Utility of Non-Crop Astaraceae	USDA Agriculture Research Service
Pinjing Zhao	CSM	Chemistry and Biochemistry		\$	462,000.00	Understanding and Directing the Reactivity of Cyclometalated Complexes in Late Transition Metal-based Homogeneous Catalysis	National Science Foundation
Dean Webster	CSM	Coatings & Polymeric Materials		\$	41,500.00	Polymers and Adhesives for Stone Conservation	National Park Service
Dean Webster	CSM	Coatings & Polymeric Materials	Olena Shafranska	\$	98,086.00	High Oleic Soybean Oil as a Plasticizer for Crumb Rubber for New Rubber Compounds	United Soybean Board
Allan Ashworth	CSM	Geosciences		\$	17,458.00	Collaborative Research: Neotoma Paleoecolgy Database, Integrative Cyberinfrastructure for Global Climate Change	National Science Foundation
Mark McCourt	CSM	Psychology		\$	1,000,515.00	Center for Visual and Cognitive Neuroscience	National Institutes of Health
Debra Habedank	Misc	Center for Child Development		\$	535.27	USDA Child and Adult Care Food Program	ND Department of Public Instruction
Debra Habedank	Misc	Center for Child Development		\$	681.90	USDA Child and Adult Care Food Program	ND Department of Public Instruction

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Dane Skow	Misc	Center for Computer Assisted Technology (CCAST)	Marc Wallman	\$	495,524.00	CC* Networking Infrastructure: North Dakota Internet Leadership Level Infrastructure	National Science Foundation
Larry Kotchman	Misc	North Dakota Forest Service	Michael Kangas	\$	9,600.00	Turtle Mountain Aspen Regeneration Project	Rocky Mountain Elk Foundation
Larry Kotchman	Misc	North Dakota Forest Service	Thomas Claeys Derek Lowstuter	\$	40,300.00	Expansion of Great Plains Biochar Initiative in North Dakota	Natural Resources Conservation Service
Matthew Salafia	Misc	Office of the Provost		\$	9,750.00	Critical Conversations	Bush Foundation
James Bahr	Misc	Research and Creative Activity		\$	142,826.00	Scale-Up and Testing of Soy-Based Road Dust Control Agent	United Soybean Board
Kimberly Vachal	UGPTI	Upper Great Plains Transportation Institute		\$	4,950.00	North Dakota Movement Database: Corn Transportation	ND Corn Utilization Council