

# AWARD REPORT

July 2019

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 & Analysis for GM Wheat Collaborations	ND Wheat Commission
William Wilson	AES & EXT	AES Agribusiness & Applied		\$ 18,000.00	Market Development Support	ND Wheat Commission
Gregory Lardy	AES & EXT	AES Agricultural & Biosystems Engineering	John Nowatzki Xin Sun	\$ 863,092.00	Advanced UAS/UAV Application and Data Management Systems and Bioinformatics Tools Integrate GxExM Data for Precision Agricultural Management	Agricultural Research Service
Halis Simsek	AES & EXT	AES Agricultural & Biosystems Engineering		\$ 26,822.00	Effects of Different Water Table Depth on Plant Water Consumption, Yield, Quality Parameters and Antioxidant Enzyme Activities in Wheat Plant: A Lysimeter Study.	ND Wheat Commission
Gregory Endres	AES & EXT	AES Carrington Research/Extension Center	Krik Howatt Michael Ostlie	\$ 14,700.00	Fall-seeded Cover Crop Tolerance to Soybean Herbicides	ND Soybean Council
Gregory Endres	AES & EXT	AES Carrington Research/Extension Center		\$ 4,900.00	Corn Starter Fertilizer Trial at the Carrington Research Extension Center	ND Corn Utilization Council
Birgit Pruess	AES & EXT	AES Microbiological Sciences		\$ 5,000.00	Treating Ground Beef Meat for Longer Shelf Life	ND Beef Commission
Christopher Augustin	AES & EXT	AES North Central Research/Extension Center	Ryan Buetow	\$ 14,056.00	Beet Lime Application Effects on Soil pH and Hard Red Spring Wheat	ND Wheat Commission
Thomas Stefaniak	AES & EXT	AES North Central Research/Extension Center	Richard Horsley	\$ 100,000.00	Pea and Lentil Cultivar Development	Northern Pulse Growers Association
Robert Brueggeman	AES & EXT	AES Plant Pathology		\$ 13,175.00	FHB Management in Barley: QTL Deployment and Phenotyping	Agricultural Research Service
Luis Del Rio Mendoza	AES & EXT	AES Plant Pathology		\$ 35,424.00	Role of WRKY Transcription Factors in Quantitative Resistance to Sclerotinia Sclerotiorum	Agricultural Research Service
Andrew Friskop	AES & EXT	AES Plant Pathology		\$ 8,060.00	Evaluation of Fungicide Seed Treatments Under Different Tillage, Crop Rotations and Soil Conditions	ND Wheat Commission
Zhaohui Liu	AES & EXT	AES Plant Pathology		\$ 6,555.00	Investigating Prevalence of Tan Spot Pathogen Race 4 in Durum Wheat	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

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Zhaohui Liu	AES & EXT	AES Plant Pathology		\$ 21,480.00	Development of a Quantitative PCR-method to Detecting Wheat Bacterial Leaf Streak Pathogen	ND Wheat Commission
Julie Pasche	AES & EXT	AES Plant Pathology	Eric Eriksmoen Audrey Kalil Michael H Ostlie John Rickertsen Blaine Schatz	\$ 488,415.00	Building a Better Lentil from the Ground Up	USDA-NIFA / Montana State University
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
Xiwen Cai	AES & EXT	AES Plant Sciences	Shaobin Zhong	\$ 104,301.00	Characterization of Resistance to Fusarium Head Blight in Wheat and its Relatives	Agricultural Research Service
Xiwen Cai	AES & EXT	AES Plant Sciences		\$ 35,000.00	Enriching the Gene Pool for Wheat Improvement	ND Wheat Commission
Elias Elias	AES & EXT	AES Plant Sciences		\$ 100,000.00	Expand Durum Breeding Project	ND Wheat Commission
Elias Elias	AES & EXT	AES Plant Sciences		\$ 18,100.00	Developing Durum Wheat Germplasm with Low Cadmium Uptake	ND Wheat Commission
Andrew Green	AES & EXT	AES Plant Sciences		\$ 125,000.00	Hard Red Spring Wheat Breeding	ND Wheat Commission
Kirk Howatt	AES & EXT	AES Plant Sciences	Caleb Dalley Brian Jenks Michael Ostlie	\$ 10,000.00	Preharvest Options for Desiccation of Crop and Weed Biomass in Wheat	ND Wheat Commission
Herman Kandel	AES & EXT	AES Plant Sciences		\$ 12,000.00	Syngenta Syso Project	Syngenta Crop Protection Inc.
Xuehui Li	AES & EXT	AES Plant Sciences		\$ 35,620.00	Genetic Characterization and Selection for Fusarium Head Blight Resistance in Durum Wheat	Agricultural Research Service
Xuehui Li	AES & EXT	AES Plant Sciences		\$ 3,000.00	Genomics-Assisted Backcross to Improve Grain Yield in Durum Wheat under Drought Environment in Western North Dakota	ND Wheat Commission
Xuehui Li	AES & EXT	AES Plant Sciences		\$ 10,000.00	Recurrent Genomic Selection to Accelerate Breeding Population Improvement in Spring Wheat	ND Wheat Commission

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Xuehui Li	AES & EXT	AES Plant Sciences		\$ 43,080.00	Implementation of Genomic Selection to Improve Yield and Quality of Durum Wheat	ND Wheat Commission
Frank Manthey	AES & EXT	AES Plant Sciences		\$ 30,000.00	Identifying Genotypic Difference in Kernel Bleaching of Durum Wheat	ND Wheat Commission
Frank Manthey	AES & EXT	AES Plant Sciences		\$ 25,000.00	Peroxidase Activity and Pasta Brightness	ND Wheat Commission
Frank Manthey	AES & EXT	AES Plant Sciences		\$ 42,500.00	Durum Quality Research Support	ND Wheat Commission
Gideon Marais	AES & EXT	AES Plant Sciences		\$ 42,070.00	Improvement of the FHB Resistance of Winter Wheat Grown in the Northern Prairies	Agricultural Research Service
Gideon Marais	AES & EXT	AES Plant Sciences		\$ 5,000.00	Early Generation Selection for High Yield, Winter-Hardiness, and Multiple Disease Resistance in a HRWW Cross	ND Wheat Commission
Gideon Marais	AES & EXT	AES Plant Sciences		\$ 24,000.00	Hard Winter Wheat Breeding Program for the Northern Plains	ND Wheat Commission
Joel Ransom	AES & EXT	AES Plant Sciences		\$ 14,500.00	Response of Newly Released Varieties to High Input Management	ND Wheat Commission
Jiajia Rao	AES & EXT	AES Plant Sciences	Paul Schwarz Shaobin Zhong	\$ 29,097.00	Using Chitosan Nanoparticles Targeting Fusarium and Mycotoxins during Malting	Agricultural Research Service
Senay Simsek	AES & EXT	AES Plant Sciences		\$ 183,712.00	Deoxynivalenol (DON) Analysis in Wheat	Agricultural Research Service
Senay Simsek	AES & EXT	AES Plant Sciences		\$ 5,000.00	Kill it Before Mill it: Steam Pasteurization for Inactivation of Microorganisms in HRS Wheat Kernels	ND Wheat Commission
Senay Simsek	AES & EXT	AES Plant Sciences		\$ 30,000.00	HRW Quality Research Support	ND Wheat Commission
Senay Simsek	AES & EXT	AES Plant Sciences		\$ 40,000.00	HRS Quality Research	ND Wheat Commission
Senay Simsek	AES & EXT	AES Plant Sciences		\$ 58,000.00	HRS and Durum Crop Quality Survey	ND Wheat Commission
Senay Simsek	AES & EXT	AES Plant Sciences		\$ 58,000.00	Specialty Wheat Quality-Technician	ND Wheat Commission
Senay Simsek	AES & EXT	AES Plant Sciences		\$ 58,000.00	Technical and Information Services	ND Wheat Commission
Senay Simsek	AES & EXT	AES Plant Sciences		\$ 47,000.00	Specialty Wheat Quality Research Support	ND Wheat Commission

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Senay Simsek	AES & EXT	AES Plant Sciences		\$ 40,000.00	End Use Market Development Research for Spring Wheat	ND Wheat Commission
Caley Gasch	AES & EXT	AES School of Natural Resource Sciences	Thomas DeSutter Jason Harmon Abbey Wick	\$ 57,962.00	Managing Salinity with Cover Crops: A Whole System Response (Year 3)	ND Soybean Council
Marion Harris	AES & EXT	AES School of Natural Resource Sciences	Andrew Green Janet Knodel	\$ 6,914.00	Plant Resistance to Wheat Stem Sawfly	ND Wheat Commission
Deirdre Voldseth	AES & EXT	AES School of Natural Resource Sciences		\$ 15,000.00	North Dakota Pollinator Health and Pollination Services	Agricultural Research Service
Audrey Kalil	AES & EXT	AES Williston Research/Extension Center	Eric Eriksmoen Cameron Wahlstrom	\$ 7,080.00	Deoxynivalenol (DON) Testing for Evaluation of Durum Varieties in Western North Dakota	ND Wheat Commission
Gregory Endres	AES & EXT	Extension Carrington Research/Extension Center		\$ 678.00	Barnes County Cover Crop Field Demo	ND Soybean Council
Jane Strommen	AES & EXT	Extension Child Development and Family Science		\$ 25,160.00	Exploring Capacity to Reduce Fall Risk Among Diverse Older Adults in Two Rural States	Administration for Community Living / South Dakota State University
Lindsey Leker	AES & EXT	Extension Center for 4-H Youth Dev		\$ 25,000.00	Growing a Computer Science Pathway in North Dakota	National 4-H Council
Lisa Pederson	AES & EXT	Extension Central Grasslands Research/Extension Center		\$ 25,000.00	North Dakota Beef Quality Assurance	ND Beef Commission
Julie Garden-Robinson	AES & EXT	Extension Food & Nutrition		\$ 500.00	Eat Smart, Play Hard	ND Nutrition Council
Janet Knodel	AES & EXT	Extension Plant Pathology		\$ 10,000.00	Orange Wheat Blossom Midge Survey	ND Wheat Commission
Abbey Wick	AES & EXT	Extension School of Natural Resource Sciences	Marisol Berti Francis Casey Aaron Daigh Caley Gasch	\$ 31,628.00	Define Wheat Responses to Salinity	ND Wheat Commission
Abbey Wick	AES & EXT	Extension School of Natural Resource Sciences	Marisol Berti Francis Casey Aaron Daigh Caley Gasch	\$ 48,843.00	Soil Health and Agriculture Research Extension (SHARE) Farm in Larimore, ND	ND Wheat Commission

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Jeremy Jackson	CAFSNR	Agribusiness and Applied Economics		\$ 5,000.00	The Life and Contribution of Mancur Olson	George Mason University
Jena Bjertness	CAFSNR	Northern Crops Institute		\$ 1,825.00	Sponsor Trade Teams	U.S. Soybean Export Control
Yang Song	CAHSS	Architecture & Landscape Architecture	Matthew Kirkwood	\$ 13,190.00	GRPL-CESU "Partnership to Increase Recreation and Access Opportunities"	National Park Service
Yang Song	CAHSS	Architecture & Landscape Architecture		\$ 51,655.00	eFargo - Smart monitoring of Fargo Public Schools - Phase I	ND Department of Commerce
Robert Sailer	CENG	Mechanical Engineering		\$ 12,789.00	Ruggedization of production equipment and alternative ingredient identification for Dakota Sweet Crude	Doodlebug Beverages
Robert Sailer	CENG	Mechanical Engineering		\$ 166,238.00	Design, development and transition of manufacturing of Innovative cooling devices using CO2 as coolant	Frotime LLC
Majura Selekwa	CENG	Mechanical Engineering		\$ 6,000.00	Bison Robotics NASA Robotic Mining Competition	NASA / University of North Dakota
Yan Zhang	CENG	Mechanical Engineering		\$ 150,887.00	Enhancement of Left Atrial Appendage Flow using Artificial Superhydrophobic Surface	American Heart Association
Claudia Tomany	GRAD	Graduate School		\$ 138,000.00	Graduate Research Fellowship Program	National Science Foundation
Charles Peterson	CHP	Deans Office, Health Professions		\$ 76,947.00	Innovis Health, LLC dba Essentia Health - Clinical Teaching Program	Essentia Health
Charles Peterson	CHP	Deans Office, Health Professions		\$ 68,378.00	Sanford Physician Services	Sanford Health
Charles Peterson	CHP	Deans Office, Health Professions		\$ 76,322.00	Clinical Pharmacy Teaching Program	Sanford Health
Mykell Barnacle	CHP	Nursing		\$ 393,753.00	ANE - Nurse Practitioner Residency Program	Health Resources and Services Administration
Kelly Buettner-Schmidt	CHP	Nursing	Brody Maack Donald Miller Megan Orr	\$ 170,352.00	Collaborative Tobacco Prevention and Control Activities Study	ND Department of Health
Yue Qian	CHP	Pharmaceutical Sciences		\$ 100,000.00	Discovery and Development of New Cancer Therapeutic Drugs via Inhibiting D5D and Targeting Over-expressed COX-2	ND Department of Commerce

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Sathish Venkatachalem	CHP	Pharmaceutical Sciences		\$ 340,947.00	Estrogen Receptor Signaling in Airway Inflammation	National Institutes of Health
Sathish Venkatachalem	CHP	Pharmaceutical Sciences		\$ 25,000.00	Dakota Cancer Collaborative on Translational Activity	NIH / University of North Dakota
Sathish Venkatachalem	CHP	Pharmaceutical Sciences		\$ 300,000.00	Dakota Cancer Collaborative on Translational Activity	NIH / University of North Dakota
Paul Carson	CHP	Public Health	Kylie Hall	\$ 126,003.00	ND Immunization Disparities Project	CDC / ND Department of Health
Kyle Hackney	CHDE	Health, Nutrition & Exercise Sciences	Thomas Lillquist	\$ 2,090.00	The Effects of Remote Post -Exercise Ischemic Conditioning on Recovery from Strenuous Exercise	National Strength & Conditioning Assoc
Debra Habedank	Misc	Center for Child Development		\$ 534.71	USDA Child and Adult Care Food Program	USDA-FNS / ND Department of Public Instruction
Kelly Rusch	Misc	North Dakota EPSCoR		\$ 2,242,875.00	ND EPSCoR State Office Funding	ND University System Office
Kelly Rusch	Misc	North Dakota EPSCoR		\$ 600,000.00	ND EPSCoR State Office Funding	ND University System Office
Thomas Claeys	Misc	North Dakota Forest Service		\$ 50,000.00	THRO Fuels Management	National Park Service
Theresa Wickenheiser	Misc	Student Health Services	Emily Hegg	\$ 9,091.00	NDQuits Cessation Expanded Grant FY 19-20	ND Department of Health
James Bahr	Misc	VP for Research		\$ 65,734.00	Field Testing and Optimization of Soy Based Dust Control Agents	ND Department of Transportation
Sara Mwangura	Misc	Wellness Center		\$ 570.68	NDSU Wellness Center Child Care ND Food Program	USDA-FNS / ND Department of Public Instruction
Julia Bowsher	CSM	Biological Sciences		\$ 63,571.00	Hymenopteran Stress Physiology	Agricultural Research Service
Jill Hamilton	CSM	Biological Sciences		\$ 7,000.00	Incorporating a Climate-based Adaptation Approach for Post-fire Reforestation - Cold Tolerance	Forest Service
Jill Hamilton	CSM	Biological Sciences		\$ 283,985.00	Research-PGR: Genomic Architecture of Porous Species Boundaries: Implications of Climate Adaption and Hybrid Breeding	NSF / Virginia Tech
Craig Stockwell	CSM	Biological Sciences		\$ 48,000.00	Influences of Changing Land-Cover on Amphibian Habitat Suitability	U.S. Geological Survey

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Mark McCourt	CSM	Psychology	Jeffrey Johnson Kathryn Wissman	\$ 100,000.00	Testing the potential of TimeCloud technology for improved memory and cognition in academic settings	ND Department of Commerce
Timothy Horner	UGPTI	Upper Great Plains Transportation Institute	Alan Dybing	\$ 195,144.00	NDDOT State Needs Study - 2019 to 2020	Federal Highway Administration / ND Department of Transportation
Kimberly Vachal	UGPTI	Upper Great Plains Transportation Institute		\$ 35,000.00	ND Wheat Commission Transportation Research	ND Wheat Commission