

AWARD REPORT

July 2021

PI Name	PI College	PI Department	Co-PI(s)	Awarded Amount	Title	Sponsor Name
William Wilson	AES&EXT	AES Agribusiness & Applied Economics		\$ 20,500.00	Market Development Support	ND Wheat Commission
William Wilson	AES&EXT	AES Agribusiness & Applied Economics		\$ 22,500.00	Strategy & Analysis of GM Wheat	ND Wheat Commission
Michael Wunsch	AES&EXT	AES Carrington Research / Extension Center		\$ 29,400.00	BASF Product Evaluations in Cereals	BASF Corporation
Christopher Augustin	AES&EXT	AES Dickinson Research / Extension Center	Ryan Buetow	\$ 26,780.00	Liming Impacts of Hard Red Spring Wheat and Soils in Western North Dakota	ND Wheat Commission
Ryan Buetow	AES&EXT	AES Dickinson Research / Extension Center	Christopher Augustin	\$ 16,695.00	In-furrow fertilizer amendment comparison for Hard Red Spring Wheat in acidic soil environments	ND Wheat Commission
Ryan Buetow	AES&EXT	AES Dickinson Research / Extension Center		\$ 10,395.00	Comparison of biological and plant growth regulator treatments applied to Hard Red Spring Wheat in acidic soil environments	ND Wheat Commission
Shana Forster	AES&EXT	AES North Central Research / Extension Center	Eric Eriksmoen	\$ 40,560.00	NuSeed Breeding Trials Minot	Nuseed
Thomas Baldwin	AES&EXT	AES Plant Pathology		\$ 37,000.00	Spring Malting Barley Resistance to Fusarium Head Blight and Spot Form Net Blotch	USDA Agricultural Research Service
Andrew Friskop	AES&EXT	AES Plant Pathology		\$ 4,250.00	Evaluation of Fungicide Programs and Monitoring Propiconazole Sensitivity in Leaf Spot Pathogens of Wheat	ND Wheat Commission
Andrew Friskop	AES&EXT	AES Plant Pathology		\$ 18,090.00	Field Evaluation of Management Tools for Ergot	ND Wheat Commission
Andrew Friskop	AES&EXT	AES Plant Pathology		\$ 25,190.00	Evaluating Management Tools for Fusarium Head Blight, Ergot and Bacterial Leaf Streak	ND Wheat Commission
Upinder Gill	AES&EXT	AES Plant Pathology		\$ 3,480.00	Developing Durable Rust Resistance in Hard Red Spring Wheat by Pyramiding Non-Race Specific Adult-Plant Resistance Genes	ND Wheat Commission
Upinder Gill	AES&EXT	AES Plant Pathology		\$ 35,099.00	Characterization of North Dakota Spring Wheat Germplasm for Stem, Stripe, and Leaf Rust Resistance	ND Wheat Commission
Upinder Gill	AES&EXT	AES Plant Pathology		\$ 18,000.00	Characterization of North Dakota Wheat Stripe Rust Populations to Determine Pathogen Aggressiveness at High Temperature	ND Wheat Commission
Zhaohui Liu	AES&EXT	AES Plant Pathology		\$ 6,400.00	Testing the Effectiveness of a Race-Nonspecific Resistance QTL for Wheat Tan Spot at Adult Plant Stage	ND Wheat Commission
Zhaohui Liu	AES&EXT	AES Plant Pathology		\$ 2,889.00	Prevalence of ToxA in Bipolaris Sorokiniana and its Virulence on Wheat and Durum Cultivars	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		\$ 21,480.00	Development of a Quantitative PCR-Method to Detecting Wheat Bacterial Leaf Streak Pathogen	ND Wheat Commission
Gary Secor	AES&EXT	AES Plant Pathology		\$ 15,600.00	Integrating Next Generation Technologies for Blackleg and Soft Rot Management in Potato	USDA-NIFA / Colorado State University
Shaobin Zhong	AES&EXT	AES Plant Pathology		\$ 30,000.00	FHB Resistance in Wheat	ND Wheat Commission
Elias Elias	AES&EXT	AES Plant Sciences		\$ 20,000.00	Purchase Small Field Plot Combine	ND Wheat Commission
Elias Elias	AES&EXT	AES Plant Sciences		\$ 105,000.00	Expand Durum Breeding Project	ND Wheat Commission

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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		\$ 129,370.00	Hard Red Spring Wheat Breeding	ND Wheat Commission
Richard Horsley	AES&EXT	AES Plant Sciences		\$ 196,266.00	Deoxynivalenol in Wheat and Inhibition of F. Graminearum by Compounds in Wheat Bran	USDA Agricultural Research Service
Richard Horsley	AES&EXT	AES Plant Sciences		\$ 50,000.00	End Use Market Development Research for Spring Wheat	ND Wheat Commission
Richard Horsley	AES&EXT	AES Plant Sciences		\$ 40,000.00	HRS Quality Research	ND Wheat Commission
Richard Horsley	AES&EXT	AES Plant Sciences		\$ 30,000.00	HRW Quality Research Support	ND Wheat Commission
Richard Horsley	AES&EXT	AES Plant Sciences		\$ 64,000.00	Specialty Wheat Quality Research - Technician	ND Wheat Commission
Richard Horsley	AES&EXT	AES Plant Sciences		\$ 62,000.00	Technical and Information Services	ND Wheat Commission
Richard Horsley	AES&EXT	AES Plant Sciences		\$ 47,000.00	Specialty Wheat Quality Research Support	ND Wheat Commission
Richard Horsley	AES&EXT	AES Plant Sciences		\$ 60,000.00	HRS and Durum Crop Quality Survey	ND Wheat Commission
Richard Horsley	AES&EXT	AES Plant Sciences		\$ 5,000.00	Tempering HRS Wheat with Chlorinated Water: Effect on End-Use Quality	ND Wheat Commission
Clair Lynn Keene	AES&EXT	AES Plant Sciences		\$ 19,500.00	Response of Newly Released Varieties to High Input Management	ND Wheat Commission
Xuehui Li	AES&EXT	AES Plant Sciences		\$ 39,468.00	Genetic Characterization and Selection for Fusarium Head Blight Resistance in Durum Wheat	USDA 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		\$ 35,000.00	Recurrent Genomic Selection to Accelerate Breeding Population Improvement in Spring Wheat	ND Wheat Commission
Xuehui Li	AES&EXT	AES Plant Sciences		\$ 15,000.00	Implementation of Genomic Selection to Improve Yield and Quality in Durum Wheat	ND Wheat Commission
Frank Manthey	AES&EXT	AES Plant Sciences		\$ 36,070.00	Impact of Kernel Structure on Milling Quality of Durum Wheat	ND Wheat Commission
Frank Manthey	AES&EXT	AES Plant Sciences		\$ 33,620.00	Replacement for Mixograph	ND Wheat Commission
Frank Manthey	AES&EXT	AES Plant Sciences		\$ 45,000.00	Durum Quality Research Support	ND Wheat Commission
Gideon Francois Marais	AES&EXT	AES Plant Sciences		\$ 24,000.00	Hard Winter Wheat Breeding Program for the Northern Plains	ND Wheat Commission
Thomas Peters	AES&EXT	AES Plant Sciences		\$ 20,309.00	KWS Sugarbeet Tolerance and Weed Control Project	KWS Seeds, LLC
Jiajia Rao	AES&EXT	AES Plant Sciences	Paul Schwarz Shaobin Zhong	\$ 58,749.00	Essential Oil Nanoemulsion to Control of Mycotoxin Production in Cereals	USDA Agricultural Research Service
Larry Cihacek	AES&EXT	AES School of Natural Resource Sciences		\$ 4,039.00	Field validation of mineral N cycling from mixed crop residues in long-term no-till systems	ND Wheat Commission
David Franzen	AES&EXT	AES School of Natural Resource Sciences		\$ 4,199.00	Active-optical sensor algorithms completion for use in directing in-season N application for yield and protein enhancement.	ND Wheat Commission

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PI Name	PI College	PI Department	Co-PI(s)	Awarded Amount	Title	Sponsor Name
Darrell Ross	AES&EXT	AES School of Natural Resource Sciences		\$ 15,000.00	Evaluation of silver fly predators, <i>Leucopis argenticollis</i> and <i>Leucopis piniperda</i> , of <i>Adelges tsugae</i> in the Pacific Northwest, as biological controls in the eastern US	USDA Forest Service
Deirdre Voldseth	AES&EXT	AES School of Natural Resource Sciences		\$ 6,914.00	Plant Resistance to Wheat Stem Sawfly 2021-2022	ND Wheat Commission
Deirdre Voldseth	AES&EXT	AES School of Natural Resource Sciences		\$ 30,000.00	ND FY21 PPA Grape Commodity Survey	USDA Animal and Plant Health Inspection Service
Audrey Kalil	AES&EXT	AES Williston Research / Extension Center	Eric Eriksmoen Zhaohui Liu Cameron Wahlstrom	\$ 10,000.00	DON Testing of Durum in Western ND	ND Wheat Commission
Audrey Kalil	AES&EXT	AES Williston Research / Extension Center	Eric Eriksmoen Meridith Miller Cameron Wahlstrom	\$ 8,000.00	DON Testing of HRSW in Western ND	ND Wheat Commission
Audrey Kalil	AES&EXT	AES Williston Research / Extension Center	Nonoy Bandillo	\$ 24,348.00	Optimizing Nodulation in Chickpea for Enhanced Nitrogen Fixation	USDA Agricultural Research Service
Meagan Scott	AES&EXT	Ext Center for 4-H Youth Dev		\$ 130,934.00	Strengthening the Heartland: Promoting Life Readiness in Rural Youth	USDA-NIFA / South Dakota State University
Diane Hahn	AES&EXT	Ext Center for 4-H Youth Development	Lindsey Leker	\$ 22,500.00	Counselors and Access to Maximize Participation (Camp II)	National 4-H Council
Christopher Augustin	AES&EXT	Ext Dickinson Research / Extension Center	Travis Prochaska	\$ 10,890.00	Dickinson Research Extension Center Outreach Pollinator Garden	ND Natural Resources Trust
Megan Ditterick	AES&EXT	Ext Food & Nutrition	Ramona Danielson Mary Larson	\$ 568,750.00	Promoting Healthy Outcomes through Indigenous Food Systems	Centers for Disease Control
Julie Garden-Robinson	AES&EXT	Ext Food & Nutrition		\$ 500.00	Eat Smart. Play Hard: Focus on Teen Cuisine	ND Nutrition Council
Julie Garden-Robinson	AES&EXT	Ext Food & Nutrition		\$ 1,700.00	Eat Smart. Play Hard with Pulses	Northern Pulse Growers Association
Kimberly Bushaw	AES&EXT	Ext HD General	Sean Brotherson	\$ 170,000.00	Community-Based Child Abuse Prevention	DHHS-ACF / ND Department of Human Services
Janet Knodel	AES&EXT	Ext Plant Pathology		\$ 10,000.00	Orange Wheat Blossom Midge Survey	ND Wheat Commission
Abbey Wick	AES&EXT	Ext School of Natural Resource Sciences		\$ 31,628.00	Define Wheat Response to Salinity (SHARE Farm Mooreton)	ND Wheat Commission
Abbey Wick	AES&EXT	Ext School of Natural Resource Sciences		\$ 24,000.00	SHARE Farm- Larimore	ND Wheat Commission
David Boehm	CAFSNR	Northern Crops Institute		\$ 46,112.00	2022 Soybean Quality Survey	ND Soybean Council
Nancy Hodur	CAHSS	Center for Social Research		\$ 6,000.00	North Dakota Health Needs Assessment	ND Department of Health
Nancy Hodur	CAHSS	Center for Social Research		\$ 8,977.00	North Dakota Health Needs Assessment (93.994)	DHHS / ND Department of Health
Nancy Hodur	CAHSS	Center for Social Research		\$ 35,000.00	North Dakota Health Needs Assessment (93.391)	DHHS / ND Department of Health
Nancy Hodur	CAHSS	Center for Social Research		\$ 39,108.00	Pregnancy Risk Assessment Monitoring System (PRAMS) and Study of Associated Risks of Stillbirth (SOARS) Implementation	CDC / ND Department of Health
Nancy Hodur	CAHSS	Center for Social Research		\$ 9,148.00	Pregnancy Risk Assessment Monitoring System (PRAMS) and Study of Associated Risks of Stillbirth (SOARS) Implementation	CDC / ND Department of Health

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Nancy Hodur	CAHSS	Center for Social Research		\$ 135,000.00	Pregnancy Risk Assessment Monitoring System (PRAMS) and Study of Associated Risks of Stillbirth (SOARS) Implementation	CDC / ND Department of Health
Angela Smith	CAHSS	History, Philosophy & Religious Studies		\$ 14,200.00	Historical and Cultural Society of Clay County Graduate Assistantship Partnership FY22	Historical and Cultural Society of Clay
Scott Meyer	CBUS	Deans Office, Business Administration		\$ 6,000.00	Innovate ND Training Workshop	ND Department of Commerce
Ahmad Al Asady	CBUS	Management and Marketing		\$ 2,500.00	Schulze Entrepreneurship Challenge	Richard M. Schulze Family Foundation
Sudarshan Srinivasan	CENG	Electrical & Computer Engineering		\$ 352,167.00	SaTC: CORE: Small: Formal Verification Techniques For Microprocessor Security Vulnerabilities and Trojans	National Science Foundation
Umamaheswara Tida	CENG	Electrical & Computer Engineering		\$ 174,948.00	CRII: SHF: Enabling Metal Inter-Layer Via Device Utilization for On-chip Memory in Monolithic Three-Dimensional Integrated Circuits	National Science Foundation
Di Wu	CENG	Electrical & Computer Engineering		\$ 45,000.00	Distributed Protection and Restoration Schemes for Integration of Large-scaled Solar PV Installations and Responsive Loads: Design, Testbed, Proof of Work and Impact Studies	DOE / University of Oklahoma
Adam Gladen	CENG	Mechanical Engineering		\$ 40,460.00	Using Solar-powered Cooling to Increase Trout Habitat and Refugia in Response to Warming Water Temperatures	FWS / SD Department of Game, Fish and Parks
Long Jiang	CENG	Mechanical Engineering		\$ 37,336.00	Soy Protein-based Soft Gels for Sensors and Soft Robotics	ND Soybean Council
Alan Kallmeyer	CENG	Mechanical Engineering		\$ 4,944.00	Acquisition of Supplies to Support Robotics Education at NDSU	PMMI Foundation
Chad Ulven	CENG	Mechanical Engineering	Mukund Sibi Dean Webster	\$ 1,151,000.00	High Performance Bio-based Polymers for Coatings and Additive Manufacturing	Department of Defense
Charles Peterson	CHP	Deans Office, Health Professions		\$ 77,553.00	Essentia Health _Clinical Teaching Program	Essentia Health
Charles Peterson	CHP	Deans Office, Health Professions		\$ 150,635.00	Clinical Pharmacy Teaching Program	Lake Region Healthcare Corporation
Charles Peterson	CHP	Deans Office, Health Professions		\$ 79,218.00	Sanford Health Imagenetics Program	Sanford Health
Charles Peterson	CHP	Deans Office, Health Professions		\$ 77,103.00	Clinical Pharmacy Teaching Program	Sanford Health
Mykell Barnacle	CHP	Nursing		\$ 353,344.00	ANE - Nurse Practitioner Residency Program	Health Resources and Services Administration
Elizabeth Skoy	CHP	Pharmacy Practice		\$ 3,400.00	Improving the Health of Americans through Prevention and management of Diabetes and Heart Disease and Stroke Grant	ND Pharmacy Service Corporation
Paul Carson	CHP	Public Health	Elizabeth Skoy	\$ 5,013,204.00	COVID-19 Vaccine Education and Assistance	DHHS / ND Department of Health
Stefanie Meyer	CHP	Public Health		\$ 10,900.00	COVID-19/ Student Projects	Department of Treasury / ND Department of Health
Stefanie Meyer	CHP	Public Health		\$ 4,186.00	COVID-19/ Student Projects	CDC / ND Department of Health

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Stefanie Meyer	CHP	Public Health		\$ 4,186.00	COVID-19/ Student Projects	Department of Treasury / ND Department of Health
Kyle Hackney	CHSE	Health, Nutrition & Exercise Sciences		\$ 10,450.00	Graduate Assistant position at Minnesota State University Moorhead - Austin Hills	Minnesota State University, Moorhead
Kyle Hackney	CHSE	Health, Nutrition & Exercise Sciences		\$ 10,450.00	Graduate Assistant at Minnesota State University Moorhead - Kiley Lovelace	Minnesota State University, Moorhead
Stacy Duffield	CHSE	School of Education		\$ 600.00	Teacher Preparation Common Metrics: Partnership with Augsburg	Augsburg University
Stacy Duffield	CHSE	School of Education	Stacy Duffield	\$ 69,998.00	Collaborative Research: Investigating STEM Teacher Preparation and Rural Teacher Persistence and Retention	National Science Foundation
Stacy Duffield	CHSE	School of Education		\$ 600.00	Teacher Preparation Common Metrics: Partnership with the University of Minnesota Twin Cities	University of Minnesota
Laura Parson	CHSE	School of Education		\$ 133,731.00	Integrated Academic and Student Support Services: Quality Enhancement and Improvement Accreditation Support	DoD / Advanced Technical Group
Kendra Greenlee	CSM	Biological Sciences		\$ 1,516.00	Effects of Spring Storage Duration during Development on Reproductive Fitness in the Alfalfa Leafcutting Bee, <i>Megachile rotundata</i>	USDA Agricultural Research Service
Britt Heidinger	CSM	Biological Sciences		\$ 47,778.00	Collaborative Research: Parental Effects, Telomere Dynamics, and the Cross-generational Consequences of Stressors	National Science Foundation
Dmitri Kilin	CSM	Chemistry and Biochemistry		\$ 520,000.00	CAREER: Investigation of Laser-driven Chemical Reactions by Molecular Dynamics	National Science Foundation
Pinjing Zhao	CSM	Chemistry and Biochemistry		\$ 414,750.00	Nickel-Catalyzed Alkyne Hydroamination for Efficient Amine Synthesis	National Institutes of Health
Lydia Tackett	CSM	Geosciences		\$ 79,889.00	CAREER: A Late Triassic Origin for Modern Marine Predator-prey Dynamics	National Science Foundation
Debra Habedank	Misc	Center for Child Development		\$ 639.19	USDA Child and Adult Care Food Program	USDA-FNS / ND Department of Public Instruction
Susanne Caro	Misc	Library		\$ 16,421.00	Sharing Stories: Designing a New Model for Collaborative Traveling Exhibits	National Endowment for the Humanities
Thomas Claeys	Misc	North Dakota Forest Service	Lezlee Johnson Ryan Melin	\$ 426,660.00	FY 2021 USDA FS Hazardous Fuels Reduction Grant	USDA Forest Service
Thomas Claeys	Misc	North Dakota Forest Service		\$ 1,686,810.00	FY 2021 USDA Forest Service Consolidated Payments Grant	USDA Forest Service
Stacy Duffield	Misc	Office of Teaching and Learning		\$ 4,000.00	Common Metrics Partnership with Northern Arizona University	Northern Arizona University
Canan Bilen-Green	Misc	Office of the Provost	Gregory Lardy	\$ 250,000.00	New Beginnings: Supporting Students from Urban Inter-Tribal and Rural Tribal Communities	USDA National Institute of Food & Agriculture
Benjamin Shapiro	Misc	TRIO		\$ 297,601.00	Upward Bound Project	Department of Education
James Bahr	Misc	VP for Research		\$ 68,608.00	Extending the Life of Aged Roofing Shingles- An Expanded Market for Soy-Based Dust Control.	ND Soybean Council
Dale Heglund	UGPTI	Upper Great Plains Transportation Institute		\$ 20,000.00	2021 ND Insurance Reserve Fund Contribution	ND Insurance Reserve Fund

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Christopher Padilla	UGPTI	Upper Great Plains Transportation Institute		\$ 117,000.00	2021-2022 Transportation Learning Network Contract Extension	DOT / ND Department of Transportation
Christopher Padilla	UGPTI	Upper Great Plains Transportation Institute		\$ 234,000.00	2021-2022 Transportation Learning Network Contract Extension (multi-sponsor)	Multisponsor / ND Department of Transportation