

AWARD REPORT

September 2022

PI Name	PI College	PI Department	Co-PI(s)	Awarded Amount	Project Title	Sponsor
Frayne Olson	AES & EXT	AES Agribusiness & Applied Economics		\$ 109,220.00	Economic Impact of Agricultural Transportation on Agricultural Markets, Producer and Consumer Welfare and U.S. Export Competition: Analysis of Shocks, Costs, and Market Structures	USDA Economic Research Service
Igathinathane Cannayen	AES & EXT	AES Agricultural & Biosystems Engineering		\$ 118,994.00	Developing Remote Sensing and Image Processing Tools for North Dakota Agricultural and Rangeland Applications	USDA Agricultural Research Service
Kasey Maddock Carlin	AES & EXT	AES Animal Sciences		\$ 41,400.00	A Strategy for Improving Consumer Perceptions of Beef and Beef Production Systems	U.S. Cattleman's Association / Kansas State University
Michael Ostlie	AES & EXT	AES Carrington Research / Extension Center	Audrey Kalil	\$ 24,231.00	Understanding Environmental Controls on Pea Protein	USDA Agricultural Research Service
Francis Casey	AES & EXT	AES Directors Office		\$ 29,700.00	Acquisition of Good and Services - Greenhouse Manager	USDA Agricultural Research Service
Gregory Lardy	AES & EXT	AES Directors Office		\$ 20,000.00	NDSU Agricultural Statistics Program	USDA National Agricultural Statistics Service
Jane Schuh	AES & EXT	AES Directors Office		\$ 287,500.00	Accelerating IoT and Big Data Analytics to Drive Climate Smart and Precision Agriculture Systems	USDA Agricultural Research Service
Christopher Schauer	AES & EXT	AES Hettinger Research / Extension Center		\$ 30,360.00	Collaborative Livestock Research Between ARS and NDSU-Hettinger Research Extension Center	USDA Agricultural Research Service
Samiran Banerjee	AES & EXT	AES Microbiological Sciences		\$ 103,982.00	Assessing soil microbiomes for soil health and agricultural productivity	USDA Agricultural Research Service
Barney Geddes	AES & EXT	AES Microbiological Sciences	Marisol Berti	\$ 36,084.00	Identification of rhizobium inoculants tailored for performance with new alfalfa varieties and diverse soil types	National Alfalfa & Forage Alliance
Thomas Baldwin	AES & EXT	AES Plant Pathology		\$ 37,567.00	Barley Pest Research Initiative for Spot Blotch, Bacterial Leaf Streak, Net Blotch, Stem Rust, and Other Barley Pathogens	USDA Agricultural Research Service
Thomas Baldwin	AES & EXT	AES Plant Pathology		\$ 35,488.00	Spring Malting Barley Resistance to Fusarium Head Blight and Spot Form Net Blotch	USDA Agricultural Research Service
Luis Del Rio Mendoza	AES & EXT	AES Plant Pathology	Venkata Chapara Burton Johnson Zhaohui Liu	\$ 499,973.00	Enhancing Sustainability of Canola Production in North Central US	USDA National Institute of Food & Agriculture
Zhaohui Liu	AES & EXT	AES Plant Pathology		\$ 176,700.00	Characterization of Necrotrophic Effectors in the Parastagonospora Nodorum-Wheat Interaction	USDA Agricultural Research Service
Julie Pasche	AES & EXT	AES Plant Pathology		\$ 31,000.00	Expanding the Utility of Direct Dormant Tuber Testing	USDA Agricultural Research Service
Julie Pasche	AES & EXT	AES Plant Pathology		\$ 296,070.00	Development of Sustainable System-Based Management Strategies for Two Vector-Borne, Tuber Necrotic Viruses in Potato	USDA-NIFA / University of Idaho

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Jack Rasmussen	AES & EXT	AES Plant Pathology		\$ 35,200.00	Acquisition of Goods and Services	USDA Agricultural Research Service
Guiping Yan	AES & EXT	AES Plant Pathology		\$ 24,700.00	Exploring Differences in Paratrachodoros Allius Populations through Whole-Genome Sequencing and the Effect of Different Potato Cultivars on Population Fecundity	USDA Agricultural Research Service
Harlene Hatterman-Valenti	AES & EXT	AES Plant Sciences	Asunta Thompson	\$ 27,079.00	Monitoring Potato Plant, Root and Tuber Growth via Non-Destructive Means to Identify Key Factors Impacting Climate Adaptability of Cultivars	USDA Agricultural Research Service
Richard Horsley	AES & EXT	AES Plant Sciences		\$ 66,458.00	Developing Bioinformatic Pipelines and Models for Genomics-Assisted Breeding	USDA Agricultural Research Service
Joseph Ikley	AES & EXT	AES Plant Sciences		\$ 15,000.00	Field-Scale Testing of Weed Identification and Mapping Tools for Accelerating Integrated Weed Management Research and Adoption	United Soybean Board / USDA Agricultural Research Service
Phillip McClean	AES & EXT	AES Plant Sciences		\$ 60,050.00	Investigation of the Genetics of Disease Resistance in Spring and Durum Wheat	USDA Agricultural Research Service
Michael McMullen	AES & EXT	AES Plant Sciences		\$ 80,000.00	Genomic Analysis of Yield and End-Use Quality Traits in Hexaploid Oats	USDA Agricultural Research Service
Asunta Thompson	AES & EXT	AES Plant Sciences	Valenti Hatterman-Valenti William Nganje Julie Pasche Andrew Robinson Gary Secor	\$ 200,000.00	Development of Multipurpose Potato Cultivars with Enhanced Quality, Disease and Pest Resistance - North Central Region 2021-23	USDA-NIFA / Michigan State University
Edward DeKeyser	AES & EXT	AES School of Natural Resource Sciences	Christina Hargiss	\$ 14,995.82	Assessment of Grasslands and Wetlands in the Prairie Pothole Region	U.S. Fish and Wildlife Service
Kevin Sedivec	AES & EXT	AES School of Natural Resource Sciences	Benjamin Geaumont Ryan Limb	\$ 25,000.00	Assessing herbage production by ecological site associated with a novel ecosystem (invasive cool-season grass invasion) on the Fort Pierre National Grasslands	USDA Forest Service
Diane Hahn	AES & EXT	Extension Center for 4-H Youth Development		\$ 38,628.00	4-H National Mentoring Program NMP12	DOJ / National 4-H Council
Julie Garden-Robinson	AES & EXT	Extension Food & Nutrition	Nathaniel Johnson Sherri Stastny	\$ 172,916.00	Nourishing Boomers and Beyond II	USDA National Institute of Food & Agriculture
Samuel Markell	AES & EXT	Extension Plant Pathology		\$ 300,000.00	The SCN Coalition: Economics and Advancing Management	North Central Soybean Research Program
Joseph Ikley	AES & EXT	Extension Plant Sciences		\$ 30,000.00	Pigweed Awareness Coalition: Increasing Awareness and Risk of Palmer Amaranth and Waterhemp in ND	ND Corn Utilization Council
Jeremy Straub	CENG	Computer Science		\$ 293,838.00	Support for Cybersecurity Outreach Center for Native American Community	National Security Agency
Danling Wang	CENG	Electrical & Computer Engineering	Juan Li	\$ 528,901.00	RII Track 2 FEC: Building Research Infrastructure and Workforce in Edge AI	NSF / University of South Alabama

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Harun Pirim	CENG	Industrial & Manufacturing Engineering		\$ 109,954.00	Functional elucidation of virulence associated proteins encoded by <i>Flavobacterium columnare</i> , an important fish pathogen	USDA-NIFA / Mississippi State University
Chad Ulven	CENG	Mechanical Engineering	Mukund Sibi Dean Webster	\$ 500,000.00	High Performance Bio-based Polymers for Coatings and Additive Manufacturing	U.S. Army
Elizabeth Skoy	CHP	Pharmacy Practice		\$ 406,385.00	Antimicrobial Stewardship Pharmacist Position	CDC / ND Department of Health
Gretchen Dobervich	CHP	Public Health		\$ 6,000.00	North Dakota Alzheimer's Disease State Plan Year 2	CDC / University of North Dakota
Kelsey Slater	CHSE	Health, Nutrition & Exercise Sciences		\$ 33,954.20	Getting the Ball Rolling: Development of Study Abroad with Internship Program focused on Sport for Social Change	U.S. Department of State / World Learning
Elizabeth Gilblom	CHSE	School of Education		\$ 15,879.00	An Examination of Traumatic Agricultural Injuries in the Upper Midwest	NIH / Sanford Health
Laura Aldrich-Wolfe	CSM	Biological Sciences		\$ 7,050.00	Evaluating the impact of differences in remnant and reconstruction mycorrhizas on performance of conservative prairie plant species	U.S. Geological Survey
Timothy Greives	CSM	Biological Sciences		\$ 138,809.00	Investigating Avian Biology to Develop Tools and Methods to Reduce Crop Damage	USDA Animal and Plant Health Inspection Service
Giancarlo Lopez-Martinez	CSM	Biological Sciences		\$ 36,766.00	Stress physiology and oxidative stress of insect pollinators	USDA Agricultural Research Service
Sarah Signor	CSM	Biological Sciences		\$ 51,404.00	The regulation of diapause by maternal effects & the effect of environmental stress on bee quality	USDA Agricultural Research Service
Andriy Voronov	CSM	Coatings & Polymeric Materials		\$ 46,080.00	Physico-Chemical Characterizations of New and Existing Materials-Benchmarks for Personal Care Formulations as Single Ingredients and in Formulations	Amyris Inc.
Lioudmila Kryjevskaja	CSM	Physics	Alexey Leontyev	\$ 477,672.00	Collaborative Research: Developing, testing, and disseminating reasoning chain construction tools for use in physics and chemistry	National Science Foundation
Jaclynn Walette	Misc	Multi-Cultural Programs		\$ 5,000.00	Louis Stokes STEM Pathways and Research Alliance: All Nations AMP (ANAMP) program	NSF / Salish Kootenai College
Thomas Claeys	Misc	North Dakota Forest Service	Lezlee Johnson Ryan Melin	\$ 50,000.00	FY22 Infrastructure Investment & Jobs Act (IIJA) -- Bipartisan Infrastructure Law (BIL) - Community Wildfire Defense Grant-Base Funding	USDA Forest Service
Thomas Claeys	Misc	North Dakota Forest Service	Michael Kangas Mitchell Thompson	\$ 45,000.00	Sheyenne River State Forest Access Improvement Project	ND Industrial Commission
Thomas Claeys	Misc	North Dakota Forest Service	Ryan Melin	\$ 92,837.00	Infrastructure Investment & Jobs Act (IIJA) -- Bipartisan Infrastructure Law (BIL) - Volunteer Fire Assistance	USDA Forest Service

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Thomas Claeys	Misc	North Dakota Forest Service	Ryan Melin	\$ 397,184.00	FY 22 Infrastructure Investment & Jobs Act (IIJA) -- Bipartisan Infrastructure Law (BIL) - State Fire Assistance	USDA Forest Service
Thomas Claeys	Misc	North Dakota Forest Service		\$ 486,000.00	FY 22 Infrastructure Investment & Jobs Act (IIJA) -- Bipartisan Infrastructure Law (BIL) - State Forest Action Plans	USDA Forest Service
Thomas Claeys	Misc	North Dakota Forest Service		\$ 120,000.00	NDFS/DPG Woodlands and Grasslands Sustainability Agreement	USDA Forest Service
Thomas Claeys	Misc	North Dakota Forest Service		\$ 75,000.00	FY 2022 USDA Forest Service Consolidated Payments Grant	USDA Forest Service
Canan Bilen-Green	Misc	Office of the Provost	Gregory Lardy	\$ 148,928.00	New Beginnings: Supporting Students from Urban Inter-Tribal and Rural Tribal Communities	USDA National Institute of Food & Agriculture
Xinhua Jia	Misc	Water Resources Institute		\$ 133,770.00	North Dakota Water Resources Research Institute 104(b) program	U.S. Geological Survey
Dale Heglund	UGPTI	Upper Great Plains Transportation Institute	Timothy Horner	\$ 61,152.00	Coordination of 2022 NDDOT Transportation Conference	FHA / ND Department of Transportation