

AWARD REPORT

April 2022

PI Name	PI College	PI Department	Co-PI(s)	Awarded Amount	Project Title	Sponsor Name
Xin Sun	AES & EXT	AES Agricultural & Biosystems Engineering		\$ 7,500.00	Improving the Economic and Ecological Sustainability of US Crop Production through On-Farm Precision Experimentation	USDA-NRCS / University of Illinois, Urbana Champaign
Miranda Meehan	AES & EXT	AES Animal Sciences	Thomas DeSutter Caley Gasch	\$ 50,000.00	Evaluating Swine Manure Impacts to Soil Health in North Dakota	ND Pork Council
Gregory Endres	AES & EXT	AES Carrington Research / Extension Center	Joseph Ikley Brian Jenks	\$ 7,489.00	Pinto bean crop tolerance to preplant, low-dose soil application of dicamba	Northarvest Bean Growers Association
Michael Ostlie	AES & EXT	AES Carrington Research / Extension Center		\$ 5,166.00	Evaluation of: FR2805 as outlined in RES-S-2022-US-1PC-B	BASF Corporation
Michael Ostlie	AES & EXT	AES Carrington Research / Extension Center		\$ 26,762.00	Canola yield and megaplot trials	Nuseed
Michael Wunsch	AES & EXT	AES Carrington Research / Extension Center		\$ 2,105.00	Evaluation of FR2805	BASF Corporation
Michael Wunsch	AES & EXT	AES Carrington Research / Extension Center		\$ 30,000.00	Improving white mold management in dry beans	Northarvest Bean Growers Association
Ryan Buetow	AES & EXT	AES Dickinson Research / Extension Center		\$ 9,450.00	PHOSPHATE SOLUBILIZATION / SOYBEAN	BASF Corporation
Venkata Chapara	AES & EXT	AES Langdon Research / Extension Center	Zhaohui Liu	\$ 23,093.00	Management of Clubroot on Canola: Survey and Monitoring the Spread of clubroot, Resistance Breakdown in Canola Cultivars and Outreach in North Dakota	Northern Canola Growers Association
Venkata Chapara	AES & EXT	AES Langdon Research / Extension Center	Michael Wunsch	\$ 13,560.00	Management of white mold on canola using a vectorite vectored by honeybees	Northern Canola Growers Association
Venkata Chapara	AES & EXT	AES Langdon Research / Extension Center		\$ 5,530.00	Evaluation of new seed treatment chemistries to manage blackleg on Canola	Northern Canola Growers Association
Venkata Chapara	AES & EXT	AES Langdon Research / Extension Center		\$ 4,440.00	The effect of rotation sequences on Plasmodiophora brassicae resting spore population in the soil	Northern Canola Growers Association
Venkata Chapara	AES & EXT	AES Langdon Research / Extension Center		\$ 3,400.00	Evaluation of pesticide compounds to manage bacterial leaf blight of field peas	Northern Pulse Growers Association
Bryan Hanson	AES & EXT	AES Langdon Research / Extension Center	John Rickertsen	\$ 12,000.00	Seeding Date and Cultivar Influence on Winter Canola Performance in North Dakota.	Northern Canola Growers Association
Samat Amat	AES & EXT	AES Microbiological Sciences	Carl Dahlen Kendall Swanson	\$ 650,000.00	Impact of altering maternal microbiota via high forage or high concentrate diets on offspring microbiome development, energy balance, methane emissions and feedlot performance	USDA National Institute of Food & Agriculture
Brian Jenks	AES & EXT	AES North Central Research / Extension Center		\$ 5,600.00	Spring weed burndown options for sunflower	National Sunflower Association
Brian Jenks	AES & EXT	AES North Central Research / Extension Center		\$ 15,000.00	2022 Weed Control Research in Pulse Crops	Northern Pulse Growers Association
Luis Del Rio Mendoza	AES & EXT	AES Plant Pathology		\$ 49,518.00	Characterization of Prevalence of Avirulence Genes in Blackleg Pathogen of Canola and Transfer of Blackleg Resistance into Canola-Quality Germplasm	Northern Canola Growers Association
Malaika Ebert	AES & EXT	AES Plant Pathology	Upinder Gill	\$ 34,019.00	Dry Bean Survey and Disease Management in the Northarvest Area	Northarvest Bean Growers Association
Malaika Ebert	AES & EXT	AES Plant Pathology	Audrey Kalil	\$ 37,352.00	Building a North Dakota Focused Fusarium-Chickpea Pathosystem	Northern Pulse Growers Association

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Andrew Friskop	AES & EXT	AES Plant Pathology		\$ 6,500.00	A24/Evaluation of Corn Seed Treatments	BASF Corporation
Mohamed Khan	AES & EXT	AES Plant Pathology		\$ 16,000.00	Efficacy of Adavelt Solo (GF-4536) and in Mixture with Difenconazole 1:1 (GF-5249) for Control of Cercospora Leaf Spot (CERCBE) on Sugar Beet	Corteva Agriscience
Janet Knodel	AES & EXT	AES Plant Pathology		\$ 8,333.00	Wireworm Wheat Efficacy Trial	BASF Corporation
Janet Knodel	AES & EXT	AES Plant Pathology		\$ 11,000.00	Midge Trap Survey in Canola	Northern Canola Growers Association
Samuel Markell	AES & EXT	AES Plant Pathology		\$ 3,750.00	Markell_BASF_A20_McCarville_FY22	BASF Corporation
Samuel Markell	AES & EXT	AES Plant Pathology		\$ 6,000.00	Markell_BASF_A25_Tracy_FY22	BASF Corporation
Samuel Markell	AES & EXT	AES Plant Pathology		\$ 5,000.00	Determining Fungicide Effectiveness to Manage Phomopsis Stem Canker	National Sunflower Association
Julie Pasche	AES & EXT	AES Plant Pathology		\$ 33,336.00	Adjusting Planting Date for the Management of Verticillium Wilt	MN Area II Potato Growers
Julie Pasche	AES & EXT	AES Plant Pathology	Gary Secor	\$ 50,000.00	2022 Support of Irrigated Potato Research for North Dakota and Minnesota	Northern Plains Potato Growers Assn
Julie Pasche	AES & EXT	AES Plant Pathology	Audrey Kalil Samuel Markell	\$ 19,982.00	North Central Integrated Pest Management Center (NCIPMC): A Regional Approach to Pest Management Implementation FY18-FY22	USDA-NIFA / Michigan State University
Gary Secor	AES & EXT	AES Plant Pathology		\$ 43,500.00	Improving the CLS Forecasting Model for Fungicide Application Using Early Detection of Cercospora Spore Production and Infection	Sugarbeet Research & Education Board of MN & ND
Guiping Yan	AES & EXT	AES Plant Pathology	Juan Osorno	\$ 28,964.00	Resistance of NDSU Dry Bean Breeding Lines and Varieties to Soybean Cyst Nematode	Northarvest Bean Growers Association
Guiping Yan	AES & EXT	AES Plant Pathology		\$ 4,000.00	Identification of Effective Cover Crops for Managing the Root-Lesion Nematode, Pratylenchus Penetrans	Northern Plains Potato Growers Assn
Shaobin Zhong	AES & EXT	AES Plant Pathology		\$ 39,550.00	DGLA-Enriched Soybean Oil Production and Its Function in Anti-Aging Treatment	ND Soybean Council
Nonoy Bandillo	AES & EXT	AES Plant Sciences		\$ 180,944.00	Pulse Crops Breeding and Genetics Research for North Dakota	Northern Pulse Growers Association
Richard Horsley	AES & EXT	AES Plant Sciences		\$ 14,500.00	2022 Hard Red Spring Wheat Regional Quality Survey	MN Wheat Research & Promotion Council
Richard Horsley	AES & EXT	AES Plant Sciences		\$ 82,008.00	Extending the USDA Sunflower Breeding Program to Address Producer Outcomes	National Sunflower Association
Richard Horsley	AES & EXT	AES Plant Sciences		\$ 11,196.00	2022 Hard Red Spring Wheat Regional Quality Survey	SD Wheat Commission
Richard Horsley	AES & EXT	AES Plant Sciences		\$ 49,854.00	2022 Hard Red Spring and Durum Wheat Regional Crop Quality Survey	U.S. Wheat Associates Inc
Joseph Ikley	AES & EXT	AES Plant Sciences		\$ 12,600.00	2022 XtendiMax Hooded Sprayer Deposition	Bayer Crop Science
Joseph Ikley	AES & EXT	AES Plant Sciences		\$ 7,000.00	Efficacy of ATC and ResicoreXL Tank Mixtures in Field Corn	Corteva Agriscience
Joseph Ikley	AES & EXT	AES Plant Sciences		\$ 20,000.00	Herbicide Programs to Control ALS-Resistant Palmer Amaranth and Waterhemp in Dry Beans	Northarvest Bean Growers Association
Clair Keene	AES & EXT	AES Plant Sciences		\$ 3,623.00	John Deere Precision Ag Trial 2022	John Deere & Company
Clair Keene	AES & EXT	AES Plant Sciences		\$ 19,089.00	Syngenta Trial 2022	Syngenta Crop Protection Inc.

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Juan Osorno	AES & EXT	AES Plant Sciences		\$ 159,178.00	Dry Bean Improvement for the US Northern Plains	Northharvest Bean Growers Association
Thomas Peters	AES & EXT	AES Plant Sciences		\$ 4,866.00	Metamitron Soil Applied for Waterhemp Control in Sugarbeet	Western Sugar Co Grower Research Com
Md Rahman	AES & EXT	AES Plant Sciences		\$ 22,000.00	Flax Breeding for Increasing Yield and Oil per Acre	AmeriFlax
Md Mukhlesur Rahman	AES & EXT	AES Plant Sciences		\$ 12,053.00	Introgression of CMS and Restorer Genes into Genetically Diverged Breeding Lines for Inbred Lines Development in Canola	Northern Canola Growers Association
Andrew Robinson	AES & EXT	AES Plant Sciences	Julie Pasche	\$ 16,000.00	Development of Late Blight Spore Trapping Network	Northern Plains Potato Growers Assn
Andrew Robinson	AES & EXT	AES Plant Sciences		\$ 23,000.00	Potato Agronomy Management Studies - 2022	Northern Plains Potato Growers Assn
Asunta Thompson	AES & EXT	AES Plant Sciences		\$ 75,500.00	Potato Breeding and Cultivar Development for the Northern Plains Region	Northern Plains Potato Growers Assn
Mark Boetel	AES & EXT	AES School of Natural Resource Sciences		\$ 35,624.00	Sugarbeet Planter Test Stand Clinics	Sugarbeet Research & Education Board of MN & ND
Mark Boetel	AES & EXT	AES School of Natural Resource Sciences		\$ 70,170.00	Sugarbeet Insect Biology and Control	Sugarbeet Research & Education Board of MN & ND
Mark Boetel	AES & EXT	AES School of Natural Resource Sciences		\$ 13,380.00	Economic Threshold for Sugarbeet Root Maggot Control Decisions	Sugarbeet Research & Education Board of MN & ND
Daryl Ritchison	AES & EXT	AES School of Natural Resource Sciences		\$ 13,200.00	NDAWN Crystal Sugar Stations 2022	American Crystal Sugar Company
Deirdre Voldseth	AES & EXT	AES School of Natural Resource Sciences		\$ 30,000.00	ND FY22 Grape Survey 1S.0092.01	USDA Animal and Plant Health Inspection Service
Justin Jacobs	AES & EXT	AES Williston Research / Extension Center		\$ 51,660.00	NuSeed Canola Private Yield Trials	Nuseed
Audrey Kalil	AES & EXT	AES Williston Research / Extension Center	Eric Eriksmoen John Rickertsen	\$ 16,460.00	Evaluation of planting date for chickpea yield and disease	Northern Pulse Growers Association
Lynette Flage	AES & EXT	Extension Directors Office	Marc Bauer Richard Horsley Carrie Johnson Jack Rasmussen Charles Stoltenow	\$ 3,260.00	Joint Extension Positions with University of MN	USDA-NIFA / University of Minnesota
Julie Garden-Robinson	AES & EXT	Extension Food & Nutrition		\$ 156,500.00	Healthy Habits Education for North Dakota Youth	Wal-Mart Foundation Inc. / National 4-H Council
Janet Knodel	AES & EXT	Extension Plant Pathology		\$ 5,040.00	Dry Bean Grower Survey of Pest Problems, Pesticide Use, and Varieties in 2022	Northharvest Bean Growers Association
Andrew Robinson	AES & EXT	Extension Plant Sciences		\$ 12,500.00	Operational Needs for the Potato Extension Specialist	Northern Plains Potato Growers Assn
Veeshan Rayamajhee	CAFSNR	Agribusiness & Applied Economics		\$ 22,000.00	Subnational Governance in Nepal	Center for International Private Enterprise / University of Pittsburgh
Nancy Hodur	CAHSS	Center for Social Research		\$ 72,833.00	North Dakota Health Needs Assessment: A Social Determinants of Health Approach	Blue Cross ND Caring Foundation
Supavich Pengnate	CBUS	Accounting & Information Systems		\$ 5,000.00	Revamping course content for MIS 320	Department of Treasury / ND University System Office

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Achintya Bezbaruah	CENG	Civil & Environmental Engineering	Mohiuddin Quadir	\$ 725,925.00	Nanotechnology for Agriculture and Food Systems PARTNERSHIP: Nano-enabled hybrid phosphorus platforms for increasing phosphorus use efficiency	USDA National Institute of Food & Agriculture
Kalpana Katti	CENG	Civil & Environmental Engineering	Dinesh Katti	\$ 357,760.00	Next-Generation Bioactive ACL Repair Scaffolds	Sanford Research North
Pratap Kotala	CENG	Computer Science		\$ 5,000.00	Developing Course Material for Teaching CSCI 160 - Computer Science - I as an Online Course.	Department of Treasury / ND University System Office
Jeremy Straub	CENG	Computer Science		\$ 2,800.00	Publication Fee Support - Hayek Fund	George Mason University
Jeremy Straub	CENG	Computer Science		\$ 6,516.00	Support for the Development of K-12 School Cybersecurity Education in North Dakota	NSA / University Of Washington
Jordi Esteveadeordal	CENG	Mechanical Engineering	Yildirim Suzen	\$ 136,940.00	Advanced Diagnostics and Smart Morphing Flow Control for Unsteady Aerodynamics	U.S. Navy
Jordi Esteveadeordal	CENG	Mechanical Engineering		\$ 30,000.00	Experimental Investigation of Passive Control of Dynamic Stall Using Micro-Cavity Actuators	USAF / Ohio Aerospace Institute
Long Jiang	CENG	Mechanical Engineering		\$ 54,360.00	Development of smart, self-healing, injectable gels using soy protein isolate for local cancer therapy	ND Soybean Council
Long Jiang	CENG	Mechanical Engineering		\$ 49,240.00	Soy protein isolate based electrolyte gels for anti-freezing flexible zinc-ion batteries	ND Soybean Council
Long Jiang	CENG	Mechanical Engineering		\$ 30,334.00	Further development on Soy Protein-based Soft Gels for Sensors and Soft Robotics	ND Soybean Council
Becky McDaniel	CHP	Nursing		\$ 4,800.00	Mental Health First Aid Training	Essentia Health
Yagna Jarajapu	CHP	Pharmaceutical Sciences		\$ 10,000.00	Vascular Regeneration by Bone Marrow-Derived Stem/Progenitor Cells in Diversity-Outbred Mice: Impact of Diet-Induced Obesity	The Jackson Laboratory
Jayne Steig	CHP	Pharmacy Practice	Lisa Nagel	\$ 80,170.00	Opioid Drug Safety REMS Development	OpREMS LLC
Jayne Steig	CHP	Pharmacy Practice		\$ 5,000.00	Opioid Drug Safety REMS Planning	OpREMS LLC
Vanessa Tibbitts	CHP	Public Health		\$ 200,000.00	HRSA Rural Health Care Services Outreach	Health Resources and Services Administration
Erin Gillam	CSM	Biological Sciences		\$ 137,129.10	Monitoring the Relative Abundance of Bats at National Parks of the Upper Midwest	National Park Service
Timothy Greives	CSM	Biological Sciences		\$ 33,319.00	Efficacy of an Avian Repellent Applied Via a Spraying Drone for Repelling Blackbirds from Sunflower Fields	National Sunflower Association
Alexander Parent	CSM	Chemistry & Biochemistry		\$ 29,160.00	Development of Catalysts for Increasing Soybean Oil Content in Renewable Coatings	ND Soybean Council
Wenfang Sun	CSM	Chemistry & Biochemistry	John Wilkinson	\$ 431,850.00	Developing cancer-specific, H2O2-activatable, and O2-evolving micelles encapsulating near-IR photosensitizers for phototherapy of breast cancer	National Institutes of Health
Andriy Voronov	CSM	Coatings & Polymeric Materials		\$ 40,762.00	Soy-Based Biodegradable Pressure-Sensitive Adhesives	ND Soybean Council
Stacy Duffield	Misc	Office of Teaching & Learning		\$ 3,000.00	North Dakota Common Metrics	ND Education Standards & Practices Board
Marianne Quittschreiber	Misc	Wellness Center		\$ 1,361.64	NDSU Wellness Center Child Care ND Food Program	ND Department of Public Instruction

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Raj Bridgelall	UGPTI	Upper Great Plains Transportation Institute		\$ 5,000.00	DDA Grant Application for Course Development	Department of Treasury / ND University System Office
Brenda Lantz	UGPTI	Upper Great Plains Transportation Institute		\$ 43,645.00	National Commercial Driver License Program Assessment	Federal Motor Carrier Safety Administration / eScience & Technology Solutions, Inc.
Kshitij Sharma	UGPTI	Upper Great Plains Transportation Institute	Bradley Wentz	\$ 66,033.00	GF-EGF MPO Traffic Data Collection Support 2022- 2024	DOT / GF-EGF Metro. Planning Org.