

## AWARD REPORT

March 2021

PI Name	PI College	PI Department	Co-PI(s)	Awarded Amount	Title	Sponsor Name
Kenneth Hellevang	AES & EXT	AES Agricultural & Biosystems Engineering		\$ 53,753.00	Agricultural Products Utilization Commission Grant Program	ND Department of Agriculture
Joel Caton	AES & EXT	AES Animal Sciences		\$ 30,373.20	Acquisition of Goods and Services	USDA Agricultural Research Service
Robert Maddock	AES & EXT	AES Animal Sciences	Eric Berg Kasey Maddock Carlin	\$ 237,290.00	Workforce Training For Workers In Meat Processing	USDA-NIFA / ND State College of Science
Kendall Swanson	AES & EXT	AES Animal Sciences	Karl Hoppe	\$ 42,857.00	Characterization of corn harvested at high moisture in cattle feeding yards in the Upper Midwest	USDA-NIFA / South Dakota State University
Michael Ostlie	AES & EXT	AES Carrington Research / Extension Center	Jasper Teboh Szilvia Yuja	\$ 13,616.00	Jump starting mycorrhizal colonization in corn following non-host crop	ND Corn Utilization Council
Michael Ostlie	AES & EXT	AES Carrington Research / Extension Center	Jasper Teboh Szilvia Yuja	\$ 14,950.00	Comparative impact of biodegradable polymer-coated urea fertilizers on corn	ND Corn Utilization Council
Douglas Landblom	AES & EXT	AES Dickinson Research / Extension Center	Ryan Buetow Lauren Hanna Bryon Parman	\$ 499,991.00	Novel merging of heifer reproductive and management systems efficiencies to expand small and medium-sized farm business profit	USDA National Institute of Food & Agriculture
John Rickertsen	AES & EXT	AES Hettinger Research / Extension Center		\$ 10,500.00	North Dakota Flax Variety Trials	AmeriFlax
Bryan Hanson	AES & EXT	AES Langdon Research / Extension Center		\$ 18,900.00	NDSU Syngenta Wheat Contract Testing - Langdon REC	Syngenta Crop Protection Inc.
Sheela Ramamoorthy	AES & EXT	AES Microbiological Sciences	Brett Webb	\$ 500,000.00	Integrating vaccine efficacy and safety by directed suicidal replication	USDA National Institute of Food & Agriculture
Luis Del Rio Mendoza	AES & EXT	AES Plant Pathology		\$ 57,518.00	Characterization of Prevalence of Avirulence Genes in Blackleg Pathogen of Canola and Transfer of Blackleg Resistance into Canola-Quality Germplasm	Northern Canola Growers Association
Mohamed Khan	AES & EXT	AES Plant Pathology		\$ 118,820.00	Improving Disease Management and Agronomic Practices of Sugarbeet	Sugarbeet Research & Education Board of MN & ND
Janet Knodel	AES & EXT	AES Plant Pathology		\$ 3,000.00	Evaluating New Insecticides for Wireworm Control in Sunflower	National Sunflower Association
Janet Knodel	AES & EXT	AES Plant Pathology		\$ 13,000.00	Evaluation of Red Sunflower Seed Weevil Pyrethroid Susceptibility	National Sunflower Association
Janet Knodel	AES & EXT	AES Plant Pathology		\$ 30,000.00	Flea Beetle Insecticide Resistance Bioassay and Midge Trap Survey in Canola	Northern Canola Growers Association
Samuel Markell	AES & EXT	AES Plant Pathology		\$ 6,000.00	Investigating the Impact of Diseases and Associated Factors on Yield	National Sunflower Association
Samuel Markell	AES & EXT	AES Plant Pathology		\$ 12,000.00	Monitoring Plasmopara Halstedii (Downy Mildew) Virulence	National Sunflower Association
Samuel Markell	AES & EXT	AES Plant Pathology		\$ 5,000.00	Effectiveness of Fungicides to Manage Phomopsis Stem Canker of Sunflower	National Sunflower Association
Samuel Markell	AES & EXT	AES Plant Pathology		\$ 3,320.00	Effect of Sunflower Growth Stage on Phomopsis Stem Canker Development	National Sunflower Association
Julie Pasche	AES & EXT	AES Plant Pathology	Audrey Kalil Samuel Markell	\$ 19,854.00	North Central Integrated Pest Management Center (NCIPMC): A Regional Approach to Pest Management Implementation FY18-FY22	USDA-NIFA / Michigan State University

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Gary Secor	AES & EXT	AES Plant Pathology		\$	33,954.00	Monitoring Sensitivity of Cercospora Beticola to Foliar Fungicides in sugar beet fields of Minnesota and North Dakota in 2021	Sugarbeet Research & Education Board of MN & ND
Gary Secor	AES & EXT	AES Plant Pathology		\$	8,900.00	Adjusting the Cercospora Beticola Disease Forecasting Model Using Spore Germination Conditions for Early Fungicide Application	Sugarbeet Research & Education Board of MN & ND
Nonoy Bandillo	AES & EXT	AES Plant Sciences		\$	169,981.00	Pulse Crops Breeding and Genetics Research for North Dakota	Northern Pulse Growers Association
Marisol Berti	AES & EXT	AES Plant Sciences		\$	2,935.00	Testing New High Quality Perennial Cool-Season Forage Grasses with Improved Winter Hardiness and Persistence - Year 2	Midwest Forage Association
Herman Kandel	AES & EXT	AES Plant Sciences		\$	18,144.00	Syngenta Hybrid Wheat Trial	Syngenta Crop Protection Inc.
Thomas Peters	AES & EXT	AES Plant Sciences		\$	99,756.00	Weed Control in Sugarbeets	Sugarbeet Research & Education Board of MN & ND
Md Mukhlesur Rahman	AES & EXT	AES Plant Sciences	Mohiuddin Quadir	\$	453,190.00	Autonomous Robotic Systems for Precision Weed Control in Flax	USDA National Institute of Food & Agriculture
Md Mukhlesur Rahman	AES & EXT	AES Plant Sciences		\$	23,803.00	Increasing Genetic Diversity in Spring Canola (Brassica Napus L.)	Northern Canola Growers Association
Md Mukhlesur Rahman	AES & EXT	AES Plant Sciences		\$	71,200.00	Canola Breeding for Increasing Oil Yield Per Acre	Northern Canola Growers Association
Mark Boetel	AES & EXT	AES School of Natural Resource Sciences		\$	67,310.00	Sugarbeet Insect Biology and Control	Sugarbeet Research & Education Board of MN & ND
Mark Boetel	AES & EXT	AES School of Natural Resource Sciences		\$	12,650.00	Economic Threshold for Sugarbeet Root Maggot Control Decisions	Sugarbeet Research & Education Board of MN & ND
Amitava Chatterjee	AES & EXT	AES School of Natural Resource Sciences	Marisol Berti	\$	59,776.00	Soil Management for Sugarbeet Production	Sugarbeet Research & Education Board of MN & ND
Daryl Ritchison	AES & EXT	AES School of Natural Resource Sciences		\$	13,200.00	NDAWN Crystal Sugar Stations 2021	American Crystal Sugar Company
Gautam Pradhan	AES & EXT	AES Williston Research / Extension Center	Jerald Bergman	\$	11,750.00	Determining optimal flax seeding date and rate for enhanced growth, yield, and quality under no-till semiarid condition	AmeriFlax
Karl Hoppe	AES & EXT	Carrington Research / Extension Center		\$	130,000.00	North Dakota SARE State Professional Development Program 2021 - 2022	USDA-NIFA / University of Minnesota
Sean Brotherson	AES & EXT	Extension Child Development & Family Science	Lynette Flage	\$	135,007.00	North Central Farm and Ranch Stress Assistance Center: Engaging Programs to Support Producer Wellbeing	USDA-NIFA / University of Illinois, Urbana Champaign
Andrew Friskop	AES & EXT	Extension Plant Pathology		\$	130,000.00	Developing an Integrated Management of Bacterial Leaf Streak in Spring Wheat in Northern Great Plains	USDA-NIFA / South Dakota State University
Mohamed Khan	AES & EXT	Extension Plant Pathology		\$	88,879.00	Sugarbeet Extension Programs and Program Maintenance	Sugarbeet Research & Education Board of MN & ND

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Samuel Markell	AES & EXT	Extension Plant Pathology	Andrew Friskop Janet Knodel	\$	5,525.00	Great Plains Plant Diagnostic Network	USDA-NIFA / Kansas State University
Samuel Markell	AES & EXT	Extension Plant Pathology		\$	3,660.00	North Central Integrated Pest Management Center (NCIPMC): A Regional Approach to Pest Management Implementation FY18-FY22	USDA-NIFA / Michigan State University
Andrew Robinson	AES & EXT	Extension Plant Sciences		\$	12,500.00	Operational Needs for the Potato Extension Specialist	Northern Plains Potato Growers Association
Andrew Robinson	AES & EXT	Extension Plant Sciences		\$	12,500.00	Operational Needs for the Potato Extension Specialist	MN Area II Potato Growers
Clair Keene	AES & EXT	Williston Research / Extension Center		\$	162,943.00	Developing and deploying a perennial grain crop enterprise to improve environmental quality and rural prosperity	USDA-NIFA / University of Minnesota
Brian Sorenson	CAFSNR	Northern Crops Institute		\$	3,300.00	ND NCI Risk Management	American Soybean Association
Nancy Hodur	CAHSS	Center for Social Research		\$	75,000.00	General Operations Support for ND Compass	Otto Bremer Trust
Nancy Hodur	CAHSS	Center for Social Research		\$	57,676.00	Data Analysis: Community Health Care Needs Assessment Surveys	Sanford Health
Wei Lin	CENG	Civil & Environmental Engineering		\$	62,370.00	Sampling Wastewater for SARS-CoV-2 (2021)	Department of Treasury / ND Department of Environmental Quality
Ravi Yellavajjala	CENG	Civil & Environmental Engineering		\$	190,140.00	Low-cost and Sustainable Corrosion Mitigation Products Derived from Agricultural Feedstocks	USDA National Institute of Food & Agriculture
Benjamin Braaten	CENG	Electrical & Computer Engineering		\$	109,999.00	Analytical Model Development on Propagation in Biological Tissue	U.S. Air Force / University of Dayton
Trung Le	CENG	Industrial & Manufacturing Engineering		\$	75,000.00	Smart IoT system for Obstructive Sleep Apnea Monitoring and Forecasting in Cancer Patients under Radiotherapy	NIH / University of North Dakota
Nita Yodo	CENG	Industrial & Manufacturing Engineering	David Grewell	\$	139,832.00	Multi-functional Biodegradable Mulch for Specialty Crop Production	ND Corn Utilization Council
Chad Ulven	CENG	Mechanical Engineering	Benjamin Braaten Robert Sailer	\$	30,000.00	Additive Manufacturing for RF Antennas, Waveguides, Connectors on Flexible Substrates	DoD / Triton Systems, Inc.
Sathish Venkatachalem	CHP	Pharmaceutical Sciences		\$	416,539.00	Kisspeptins in the Airway	National Institutes of Health
Paul Carson	CHP	Public Health	Kylie Hall	\$	22,873.00	Evaluation of Sanford Health VaxChamp Program and Immunization Program Support	Sanford Health
Jaeha Lee	CHSE	Apparel, Design & Hospitality Management		\$	5,000.00	ADHM 470 Retail Financial Management and Control	Department of Treasury / ND University System Office
Laura Parson	CHSE	School of Education		\$	5,685.00	Data-Enabled Engineering Projects for Undergraduate Data Science & Engineering Education	NSF / Auburn University
Laura Aldrich-Wolfe	CSM	Biological Sciences		\$	476,889.00	CAREER: coffee fungi below and aboveground: agroecological experiment for teaching and learning about fungal diversity and ecosystem function	National Science Foundation

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Erin Gillam	CSM	Biological Sciences		\$	96,574.00	Monitoring the Relative Abundance of Bats at National Parks of the Upper Midwest	National Park Service
Sarah Signor	CSM	Biological Sciences		\$	187,257.00	RII Track-4: mRNA processing and adaptation to the environment	National Science Foundation
Dean Webster	CSM	Coatings & Polymeric Materials	Shane Stafslie	\$	100,000.00	Comprehensive Biological Efficacy Testing of Marine Coating	U.S. Navy
Dean Webster	CSM	Coatings & Polymeric Materials		\$	160,000.00	Robust coatings with amphiphilic surfaces for control of biofouling	U.S. Navy
Debra Habedank	Misc	Center for Child Development		\$	1,332.92	USDA Child and Adult Care Food Program	USDA-FNS / ND Department of Public Instruction
Susanne Caro	Misc	Library		\$	1,349.00	Developing an improved tool for monitoring vinegar syndrome in cellulose acetate formats	American Library Association
Stacy Duffield	Misc	Office of Teaching and Learning		\$	400.00	Teacher Preparation Common Metrics: Partnership with Rochester University	Rochester University
Stacy Duffield	Misc	Office of Teaching and Learning		\$	600.00	Teacher Preparation Common Metrics: Partnership with Minnesota State University Mankato	Minnesota State University, Mankato
Marianne Quittschreiber	Misc	Wellness Center		\$	3,342.09	NDSU Wellness Center Child Care ND Food Program	USDA-FNS / ND Department of Public Instruction
Bradley Wentz	UGPTI	Upper Great Plains Transportation Institute		\$	11,995.00	North Dakota MPO Planning Support Program Master Agreement	DOT / FM Metro Council of Governments