

AWARD REPORT

August 2020

PI Name	PI Department	PI College	Co-PI(s)	Award Amount	Title	Sponsor Name
David Bullock	AES Agribusiness & Applied Econ	AES&EXT	William Wilson	\$ 50,673.00	Strategies to Improve / Assure Performance of Soybean Purchases	ND Soybean Council
Saleem Shaik	AES Agribusiness & Applied Econ	AES&EXT		\$ 20,545.39	Develop Farm Model to Conduct Policy Analysis for North Dakota & Northern Great Plains	ND Soybean Council
William Wilson	AES Agribusiness & Applied Econ	AES&EXT	David Bullock	\$ 40,000.00	Marketing Consulting and Research Projects	ND Soybean Council
Carl Dahlen	AES Animal Sciences	AES&EXT		\$ 99,794.00	Rapid analysis of bioactive plant constituents and steroid hormones in beef cattle matrices	USDA Agricultural Research Service
Lawrence Reynolds	AES Animal Sciences	AES&EXT	Pawel Borowicz Joel Caton Carl Dahlen	\$ 42,132.00	Pilot Project - A Novel Intravaginal Device to Reverse Atrophic Vaginitis	National University of Ireland Galway
Kendall Swanson	AES Animal Sciences	AES&EXT	Carl Dahlen Bryan Neville	\$ 69,225.00	Effects of hemp seed meal on physiologic, nutritional, and residue chemistry endpoints in feedlot cattle	USDA Agricultural Research Service
Jasper Teboh	AES Carrington Research / Extension Center	AES&EXT		\$ 11,310.00	Evaluation of ANVOL as a urease inhibitor in wheat production	Koch Ag & Energy LP
Steve Zwinger	AES Carrington Research / Extension Center	AES&EXT		\$ 1,172.00	Evaluation and Increase of the Determinate Buckwheat Variety Devyatka	OCIA / Northern Plains Sustainable Agricul Soc
Gregory Lardy	AES Directors Office	AES&EXT		\$ 20,000.00	NDSU Agricultural Statistics Program	USDA National Agricultural Statistics Service
Shana Forster	AES North Central Research / Extension Center	AES&EXT		\$ 50,000.00	NCREC Seed Conditioning Facility	Renville County
Brian Jenks	AES North Central Research / Extension Center	AES&EXT		\$ 7,500.00	Flax Tolerance to Soil-Applied and Postemergence Herbicides	AmeriFlax
Thomas Baldwin	AES Plant Pathology	AES&EXT		\$ 30,755.00	FHB Management in Barley: QTL Deployment and Phenotyping	USDA Agricultural Research Service
Luis Del Rio Mendoza	AES Plant Pathology	AES&EXT		\$ 33,420.00	Role of WRKY Transcription Factors in Quantitative Resistance to Sclerotinia Sclerotiorum	USDA Agricultural Research Service
Andrew Friskop	AES Plant Pathology	AES&EXT		\$ 32,508.00	Attachment A-17, Project/Testing Protocol	BASF Corporation
Zhaohui Liu	AES Plant Pathology	AES&EXT		\$ 158,000.00	Characterization of Necrotrophic Effectors in the Parastagonospora Nodorum-Wheat Interaction	USDA Agricultural Research Service

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Zhaohui Liu	AES Plant Pathology	AES&EXT		\$ 5,000.00	Barley Bacterial Leaf Streak: Bacterial Pathogen Detection and Genetic Resistance	American Malting Barley Association
Julie Pasche	AES Plant Pathology	AES&EXT		\$ 39,954.00	Validation and Characterization of Cultivated Sunflower Lines with Resistance to Sclerotinia Basal Stalk Rot	USDA Agricultural Research Service
Julie Pasche	AES Plant Pathology	AES&EXT		\$ 34,980.00	Detection and Quantification of the Common Scab Pathogen in the Greenhouse and Field	Nebraska Department of Agriculture
Guiping Yan	AES Plant Pathology	AES&EXT		\$ 15,000.00	Screening Cover Crops for Managing the Root-Lesion Nematode, <i>Pratylenchus Penetrans</i>	MN Area II Potato Growers
Guiping Yan	AES Plant Pathology	AES&EXT		\$ 7,740.00	Resistance of Soybean Cultivars to a New Root-Lesion Nematode Species in North Dakota	ND Soybean Council
Shaobin Zhong	AES Plant Pathology	AES&EXT		\$ 183,830.00	Genetic Characterization and Integrated Deployment of FHB Resistance in Wheat	USDA Agricultural Research Service
Marisol Berti	AES Plant Sciences	AES&EXT		\$ 60,000.00	Agronomic and Molecular Responses of Maize and Sunflower to Competition with Cover Crops and Alfalfa	USDA Agricultural Research Service
Xiwen Cai	AES Plant Sciences	AES&EXT	Shaobin Zhong	\$ 143,406.00	Characterization of Resistance to Fusarium Head Blight in Wheat and its Relatives	USDA Agricultural Research Service
Xiwen Cai	AES Plant Sciences	AES&EXT		\$ 89,518.00	QTL Mapping of Sclerotinia Head Rot Resistance and Pyramiding of Basal Stalk Rot QTL in Sunflower	USDA Agricultural Research Service
Bingcan Chen	AES Plant Sciences	AES&EXT		\$ 34,120.00	Development of Expeller-Pressed Regular and High Oleic Soybean Oil Oleogels for Edible Applications	ND Soybean Council
Richard Horsley	AES Plant Sciences	AES&EXT		\$ 24,000.00	Developing Bioinformatic Pipelines for Genomics-Assisted Breeding using Graphical User Interfaces	USDA Agricultural Research Service
Richard Horsley	AES Plant Sciences	AES&EXT		\$ 58,000.00	Breeding and Genetics of Two-Rowed Malting Barley	American Malting Barley Association
Xuehui Li	AES Plant Sciences	AES&EXT		\$ 39,468.00	Genetic Characterization and Selection for Fusarium Head Blight Resistance in Durum Wheat	USDA Agricultural Research Service
Gideon Marais	AES Plant Sciences	AES&EXT		\$ 58,437.00	Transfer of FHB Resistance to NDSU Hard Red Spring Winter Wheat Breeding Material	USDA Agricultural Research Service

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Phillip McClean	AES Plant Sciences	AES&EXT	Juan Osorno	\$ 56,856.00	White Mold Resistance - QTL: Identification, Interactions, and Fine Mapping in Common Bean	USDA Agricultural Research Service
Phillip McClean	AES Plant Sciences	AES&EXT		\$ 78,705.00	Genomic Analysis of Septoria Nodorum Blotch Susceptibility Genes in Wheat	USDA Agricultural Research Service
Joel Ransom	AES Plant Sciences	AES&EXT	Michael Wunsch	\$ 14,013.00	Value of Genetic Resistance and Fungicides on FHB Control in Durum	USDA Agricultural Research Service
Andrew Robinson	AES Plant Sciences	AES&EXT	Julie Pasche	\$ 10,000.00	Late Blight Spore Trapping Network for Minnesota and North Dakota	MN Area II Potato Growers
Andrew Robinson	AES Plant Sciences	AES&EXT	Julie Pasche	\$ 10,000.00	Late Blight Spore Trapping Network for Minnesota and North Dakota	Northern Plains Potato Growers Association
Paul Schwarz	AES Plant Sciences	AES&EXT		\$ 287,218.00	Evaluation of Barley and Malt for Fusarium Infection and Mycotoxins	USDA Agricultural Research Service
Senay Simsek	AES Plant Sciences	AES&EXT		\$ 196,266.00	Deoxynivalenol in Wheat and Inhibition of F. Graminearum by Compounds in Wheat Bran	USDA Agricultural Research Service
Senay Simsek	AES Plant Sciences	AES&EXT		\$ 68,850.00	Refining Molecular Mechanisms that Control Potato Meristem Dormancy and Tuber Sprouting via Omics	USDA Agricultural Research Service
Mark Boetel	AES School of Natural Resource Sciences	AES&EXT		\$ 5,659.50	Acquisition of Goods and Services	USDA Agricultural Research Service
Larry Cihacek	AES School of Natural Resource Sciences	AES&EXT		\$ 5,916.00	Nitrogen dynamics in Mixed Species Crop Residues with a High Proportion of Wheat in Long-Term No-till Crop Production Systems	ND Wheat Commission
David Rider	AES School of Natural Resource Sciences	AES&EXT		\$ 26,318.00	Survey for Insects (Hexapoda) at Camp Grafton North, Benson Co., North Dakota	ND National Guard
Jerald Bergman	AES Williston Research / Extension Center	AES&EXT		\$ 100,000.00	WREC Greenhouse Facility	Williams County
Diane Hahn	Ext Center for 4-H Youth Dev	AES&EXT		\$ 280,000.00	Building Community Capacity and Resilience through 4-H in ND Tribal Nations	USDA National Institute of Food & Agriculture
Meagan Hoffman	Ext Center for 4-H Youth Dev	AES&EXT		\$ 135,399.00	Strengthening the Heartland: Promoting Life Readiness in Rural Youth	USDA-NIFA / South Dakota State University
Lynette Flage	Ext Center for Community Vitality	AES&EXT		\$ 269,542.00	Conservation Collaboration Grants or Agreements Fiscal Year (FY) 2020 Announcement for Program Funding - MT, NE, ND, and SD	USDA Natural Resources Conservation Service
Rebecca Hager	Ext County Programs	AES&EXT		\$ 89,616.00	Expanding Opportunities for Tribal Youth and Native Agriculture at Fort Berthold	USDA National Institute of Food & Agriculture

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Janet Knodel	Ext Plant Pathology	AES&EXT	Patrick Beauzay Andrew Friskop Sam Markell Esther McGinnis Jesse Ostrander Andrew Thostenson	\$ 176,920.00	Extension Integrated Pest Management Program in North Dakota	USDA National Institute of Food & Agriculture
Janet Knodel	Ext Plant Pathology	AES&EXT		\$ 5,040.00	Dry Bean Grower Surveys of Pest Problems, Pesticide Use and Varieties in 2020	Northharvest Bean Growers Association
Abbey Wick	Ext School of Natural Resource Sciences	AES&EXT		\$ 37,808.00	Extension Programming for the SHARE Farms	ND Soybean Council
Abbey Wick	Ext School of Natural Resource Sciences	AES&EXT	Marisol Berti Francis Casey Aaron Daigh Caley Gasch	\$ 31,628.00	Define Wheat Response to Salinity (SHARE Farm Mooreton)	ND Wheat Commission
Abbey Wick	Ext School of Natural Resource Sciences	AES&EXT	Marisol Berti Francis Casey Aaron Daigh Caley Gasch	\$ 48,843.00	SHARE Farm - Larimore	ND Wheat Commission
Brian Sorenson	Northern Crops Institute	CAFSNR		\$ 100,000.00	NCI General Support	ND Wheat Commission
Nancy Hodur	Center for Social Research	CAHSS		\$ 15,620.00	Study of Associated Risks of Stillbirth (SOARS)	DHHS / ND Department of Health
Kelly Sassi	English	CAHSS		\$ 90,000.00	2021 NWP i3 Scale-up Year 4 Late Start Professional Development Proposal	DoED / National Writing Project
Angela Smith	History, Philosophy & Religious Studies	CAHSS		\$ 7,100.00	Bonanzaville Graduate Assistant Program FY21	Bonanzaville
Angela Smith	History, Philosophy & Religious Studies	CAHSS		\$ 7,100.00	Griggs County Graduate Assistant FY21	Griggs County
Trung Le	Civil & Environmental Engineering	CENG		\$ 7,000.00	Auto-reconstruction of Inundation map using Deep Learning: Benchmarking with UDAR data	Earth Science Information Partners
Zhibin Lin	Civil & Environmental Engineering	CENG	Dante Battocchi Xiaoning Qi	\$ 3,342.00	Development of New Multifunctional Composite Coatings for Preventing and Mitigating Internal Pipeline Corrosion	Department of Transportation
Yao Yu	Construction Management & Engineering	CENG	Abdulaziz Banawi Huojun Yang	\$ 20,000.00	Building energy analysis and audit of A. Glenn Hill Center at North Dakota State University	DOE / ND Department of Commerce
David Grewell	Industrial & Manufacturing Engineering	CENG	Chad Ulven Nita Yodo	\$ 139,734.00	Rumen Roughage Replacement for Ruminant Species Based on Wet Milling Co-Products	Cargill Inc.

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Nita Yodo	Industrial & Manufacturing Engineering	CENG	David Grewell Chiwon Lee	\$ 40,000.00	Cost Effective Soy-Based Garden Pots	ND Soybean Council
Majura Selekwa	Mechanical Engineering	CENG		\$ 1,949.00	Functional Coatings for Vehicle Autonomy - Phase II Development of a Robotic Vehicle for Testing PPG Coatings	DoD / PPG Industries
Charles Peterson	Deans Office, Health Professions	CHP		\$ 73,429.00	Innovis Health, LLC dba Essentia Health - Clinical Teaching Program	Essentia Health
Charles Peterson	Deans Office, Health Professions	CHP		\$ 76,075.00	Clinical Pharmacy Teaching Program	Sanford Health
Molly Secor-Turner	Nursing	CHP		\$ 27,927.00	Gladys Ray Mobile Outreach Program Evaluation	ND Department of Human Services
Kristine Steffen	Pharmaceutical Sciences	CHP		\$ 930,251.00	Mechanisms that Predict Weight Trajectory after Bariatric Surgery: The Interactive Roles of Behavior and Biology	National Institutes of Health
Elizabeth Skoy	Pharmacy Practice	CHP	Paul Carson	\$ 149,003.00	North Dakota Vaccine Hesitancy Project	ND Department of Health
Ramona Danielson	Public Health	CHP		\$ 26,985.00	NDDOH Promoting Health Equity	ND Department of Health
Pamela Jo Johnson	Public Health	CHP		\$ 763,000.00	COVID-19 Response	DHHS / ND Department of Health
Kara Gange	Health, Nutrition & Exercise Sciences	CHSE		\$ 10,300.00	Research Assistant with Katie Lyman at NDSU through Kinesio Taping Association International	Kinesio Taping Association International
Kara Gange	Health, Nutrition & Exercise Sciences	CHSE		\$ 11,330.00	Graduate Assistant at Valley City State University - Katelynn Smedley	Valley City State University
Kara Gange	Health, Nutrition & Exercise Sciences	CHSE		\$ 11,330.00	Graduate Assistant at Valley City State University - Caroline (Ranger) Martinez	Valley City State University
Mari Borr	School of Education	CHSE	Adam Marx	\$ 32,000.00	North Dakota Department of Career and Technical Education Program Enhancement Project	ND Department of Career & Technical Education
Laura Parson	School of Education	CHSE		\$ 154,430.00	EPASS PWS Quality Enhancement and Improvement Accreditation Support	DoD / Advanced Technical Group
Laura Aldrich-Wolfe	Biological Sciences	CSM		\$ 200,000.00	EAGER: Spillover of coffee diseases into forest ecosystems and consequences for forest plant communities	National Science Foundation
Julia Bowsher	Biological Sciences	CSM		\$ 119,135.00	Hymenopteran Stress Physiology	USDA Agricultural Research Service

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Julia Bowsher	Biological Sciences	CSM	Kendra Greenlee	\$ 1,397,594.00	R11 Track-2 FEC: Insect Cryobiology and Ecophysiology (ICE) Network: Integrating Genomics, Physiology, and Modeling	National Science Foundation
Kendra Greenlee	Biological Sciences	CSM		\$ 11,197.88	Acquisition of Goods and Services	USDA Agricultural Research Service
Kendra Greenlee	Biological Sciences	CSM		\$ 76,411.50	Acquisition of Goods and Services	USDA Agricultural Research Service
Timothy Greives	Biological Sciences	CSM		\$ 22,393.80	Understanding Avian Biology to Develop Tools and Methods to Reduce Crop Damage	USDA Animal and Plant Health Inspection Service
Katie Reindl	Biological Sciences	CSM		\$ 433,934.00	GSTP1 As a Therapeutic Target for Pancreatic Cancer	National Institutes of Health
Christopher Colbert	Chemistry and Biochemistry	CSM		\$ 290,000.00	Structural Basis for Cell Surface Signaling by a Gram-negative Bacteria Sigma-regulator	National Institutes of Health
Wenfang Sun	Chemistry and Biochemistry	CSM		\$ 125,744.00	Collaborative Research: Developing cancer-specific targeting new I photosensitizers for in vitro theranostic photodynamic therapy and photothermal therapy	National Science Foundation
Shane Stafslie	Coatings & Polymeric Materials	CSM		\$ 16,500.00	Surface Active Polymers for Enhancement in Biofouling Control and Viable Non-toxic Marine Coatings	DoD / Adaptive Surface Technologies, Inc
Dean Webster	Coatings & Polymeric Materials	CSM	David Grewell Alan Kallmeyer Chad Ulven	\$ 7,500.00	IUCRC Phase I North Dakota State University: Center for Bioplastics and Biocomposites (CB2)	National Science Foundation
Dean Webster	Coatings & Polymeric Materials	CSM	David Grewell Alan Kallmeyer Chad Ulven	\$ 150,000.00	IUCRC Phase I North Dakota State University: Center for Bioplastics and Biocomposites (CB2)	National Science Foundation
Dean Webster	Coatings & Polymeric Materials	CSM	Andrew Croll	\$ 5,792,117.00	Understanding the Principles of Solid Shedding Surfaces	U.S. Navy
Kimberly Wallin	Deans Office, Science & Math	CSM	Darrell Ross	\$ 70,000.00	Understanding silver fly species distributions to increase efficacy of biological control of hemlock woolly adelgid in the eastern US	U.S. Forest Service
Benjamin Laabs	Geosciences	CSM		\$ 69,249.00	Collaborative Research: a transparent-middle-layer computational and data management infrastructure for synoptic applications of cosmogenic-nuclide geochemistry	National Science Foundation

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Maria De Los Angeles Alfons	Mathematics	CSM		\$ 42,000.00	Geometric and Harmonic Analysis of Convex Bodies	Simons Foundation
Andrew Croll	Physics	CSM		\$ 240,256.00	Advanced Adhesion from Origami Inspired Thin Film Mechanics	National Science Foundation
Alan Denton	Physics	CSM		\$ 193,059.00	Response of Soft Colloids and Macromolecules to Crowded Environments: Theoretical and Computational Modeling	National Science Foundation
Mark McCourt	Psychology	CSM		\$ 994,493.00	Center for Visual and Cognitive Neuroscience	National Institutes of Health
Kelly Rusch	North Dakota EPSCoR	Misc		\$ 2,242,875.00	ND EPSCoR State Office Funding	ND University System Office
Kelly Rusch	North Dakota EPSCoR	Misc		\$ 600,000.00	ND EPSCoR State Office Leveraged Funding	ND University System Office
Scott Norenberg	TRIO	Misc		\$ 503,470.00	Trio Student Support Services	Department of Education
Sara Mwangura	Wellness Center	Misc		\$ 502.28	NDSU Wellness Center Child Care ND Food Program	USDA-FNS / ND Department of Public Instruction
Marianne Quittschreiber	Wellness Center	Misc		\$ 502.28	NDSU Wellness Center Child Care ND Food Program	USDA-FNS / ND Department of Public Instruction