

2020 NCR-SARE Research & Education Projects Recommended for Funding

Project #	Project Focus	Title	PI Name	Primary Grantee	State	\$\$ Requested	Cumulative	Brief Description
LNC20-432	R	Precision Winter Cereal Rye Cover Cropping for Improving Farm Profitability and Environmental Stewardship	Shalamar Armstrong	Purdue University	IN	\$ 249,871	\$ 249,871	Precision cover cropping has potential for increasing cover crop adoption by reducing cover crop costs and N losses while increasing farm profit and resiliency.
LNC20-433	R	Investigating the Potential of Woodland Silvopasture Systems: Prevalence, Practices, Perceptions and Performance	Ashley Conway	University of Missouri	MO	\$ 249,731	\$ 499,602	Understanding woodland silvopasture practices and adoption through a statewide producer survey, and monitoring ecosystem impacts of the woodland silvopasture conversion practices.
LNC20-434	E/O	Entrepreneurial Sustainable Agriculture for Latinx and Limited-resource Producers in Missouri	Eleazar Gonzalez	Lincoln University	MO	\$ 245,505	\$ 745,107	Developing entrepreneurial sustainable agriculture capacities, on-farm demonstrations, and implementing sustainable agricultural systems for Latinx producers.
LNC20-435	R	Development and delivery of post-harvest spotted wing Drosophila cultural control tactics for for NCR tart cherry growers	Matthew Grieshop	Michigan State University	MI	\$ 208,507	\$ 953,614	We will develop cultural management tactics for reducing spotted wing Drosophila reproduction on fruit wastes, reducing grower reliance on insecticides.
LNC20-436	R	Trap Cropping to Improve Tarnished Plant Bug Management in North Central Strawberry	Christelle Guédot	University of Wisconsin - Madison	WI	\$ 144,096	\$ 1,097,710	This project seeks to develop and assess trap cropping strategies for tarnished plant bug in strawberry.
LNC20-437	R	Values and adoption in regenerative grazing practices and associated wellbeing outcomes for cow-calf producers	Jennifer Hodbod	Michigan State University	MI	\$ 249,999	\$ 1,347,709	What leads to (or prevents) the adoption of regenerative grazing practices? An exploration of the relationships between adoption, producer values, and wellbeing (ecological, social, and economic).
LNC20-438	R	Improving two spotted spider mite management in high tunnel cucumber production	Laura Ingwell	Purdue University	IN	\$ 249,919	\$ 1,597,628	This project aims to provide best management practices for spider mites in high tunnel cucumbers, from cultivar selection to scouting and control tactics.

LNC20-439	R	Soil health and water quality nexus in sustainable agroecosystems	Margaret Kalcic	The Ohio State University	OH	\$ 249,932	\$ 1,847,560	Project explores co-benefits of long-term soil health practices in sustainable agroecosystems and their potential impacts on edge-of field water quality. The long-term study monitors and compares soil health and water quality in (1) conventionally managed (2) transitional, and (3) mature systems.
LNC20-440	E/O	Onto Greener Pastures with Rotational Grazing and Cover Crops	Heidi Peterson	Sand County Foundation	WI	\$ 249,205	\$ 2,096,765	Demonstrating the value of rotational grazing with cover crops for soil health improvement, increased cost efficiency, and nutrient runoff reduction.
LNC20-441	R	Improving disease resistance in the perennial grain Kernza to protect the value of the grain and the environment	Jessica Rupp	Kansas State University	KS	\$ 167,433	\$ 2,264,198	Survey pathogen populations in fields and measure toxin content in Kernza to develop improved disease resistance while reducing pesticides and economic loss.
LNC20-442	E/O	Strategies for Adaptive Resilience in Sustainable Agriculture for Beginning and Historically Underserved Farmers	Jennifer Silveri	Michigan Integrated Food and Farming Systems (MIFFS)	MI	\$ 199,997	\$ 2,464,195	Adaptation to changing markets and climate through diversification, mechanization and income generation from working lands conservation.
LNC20-443	R	Identifying and Expanding Integrated Disease Management Resources to include Organic Grains in Support of Organic and Transitional North Central Farms	Darcy Telenko	Purdue University	IN	\$ 249,984	\$ 2,714,179	Initiate and Expand Organic-Based Integrated Disease Management tools with a focus on Fusarium head blight of wheat, white mold of soybean, and tar spot of corn
LNC20-444	R	Participatory Farmer Monitoring on Nitrate Loss: Using Farm-Scale Data to Improve Nutrient Management and Water Quality	Landon Yoder	Indiana University	IN	\$ 236,702	\$ 2,950,881	This project provides farmers with field-scale data on nitrate outcomes from tile drains to understand and assist them in evaluating their nutrient management.