



AGRICULTURE PROJECTS FUNDED IN WEST VIRGINIA

by USDA's
Sustainable Agriculture Research and Education (SARE) Program
1988-2019

West Virginia has been awarded \$3,109,313 grants to support 92 projects, including but not limited to, 12 research and/or education projects, 7 professional development projects and 42 producer-led projects. West Virginia has also received additional SARE support through multi-state projects.

RESEARCH AND EDUCATION GRANTS

Project #	Project Title	SARE support	Project Leaders
LNE17-359	Obtaining preventative veterinary care in underserved areas	\$67,092	William Shockey West Virginia University
LNE16-350	Refining an attracticidal sphere management system for spotted-wing drosophila in small fruit production	\$198,902	Dr.Tracy Leskey USDA-ARS
LNE14-333	Enhancing the productivity of ewe lambs through the use of reproductive management	\$134,152	Marlon Knights West Virginia University
LNE14-334	Building attract-and-kill systems for management of the brown marmorated stink bug in apple orchards	\$249,967	Dr.Tracy Leskey USDA-ARS
LNE06-249	Evaluation of field density, cultivar preference, and northeast grower evaluation of the hornfaced bee as an alternative sustainable pollinator for highbush blueberry production	\$96,380	Dr.Todd West West Virginia University
LNE05-218	Multi-stakeholder collaboration for profitable and ecological cultivation of forest medicinals	\$103,500	Dennis Hosack Rural Action- Appalachian Forest Resource Center
LNE04-197	Understanding and Improving E-Commerce Use by Small Farms	\$85,317	Cheryl Brown West Virginia University
LNE04-207	Decision Enabling Data Collection and Management Project	\$100,081	Tom McConnell West Virginia University
LNE02-158	Comparison of Organic Farming Systems Using Off-Farm Nitrogen with & without Animals	\$149,968	Sven Verlinden West Virginia University
LNE00-139	Improving Farm Profits by Developing a Niche Market for Green-Certified Senior Calf Beef	\$112,621	W. Neil Gillies Cacapon Institute
LNE99-123	Systems of Transition from Conventional to Organic Agricultural Production	\$212,247	James Kotcon College of Agriculture, Forestry & Consumer Sciences

LNE98-105	Controlling Honeybee Mites with Essential Oils	\$80,000	Jamie Amrine West Virginia University
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PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

Project #	Project Title	SARE support	Project Leaders
ENE12-126	Professional Development for Agricultural Service Providers in Pollution Discharge Elimination System	\$26,699	Dr.Doolarie Singh-Knights, Ph.D. West Virginia University
ENE08-109	An Educational Program to Expand Season Extension of Horticulture Crops in West Virginia	\$52,517	Dr.Lewis Jett West Virginia University
ENE03-077	Timber to truffles: West Virginia workshops in traditional and special forest products	\$61,614	David McGill WVU Appalachian Hardwood Center
ENE03-078	Increasing returns from farm woodlots with owner-operated processing of timber	\$79,895	David McGill WVU Appalachian Hardwood Center
ENE02-070	Consumer-Driven Marketing	\$40,503	Tom McConnell West Virginia University
ENE98-045	Re-Inventing the Appalachian Shepherd	\$6,500	Tom McConnell West Virginia University
ENE94-002	Extension Agent Training in Sustainable Agriculture	\$41,600	John Jett West Virginia University

FARMER/RANCHER GRANTS

Project #	Project Title	SARE support	Project Leaders
FNE18-907	Here Comes the Sun: Solar Power as Energy Source in Remote High Tunnel Ventilation Systems	\$14,246	Tommye Rafes T. L. Fruits and Vegetables LLC
FNE17-870	Determination of optimum planting dates for strawberry production in southern West Virginia	\$13,725	Kent Gilkerson Sunset Berry Farm & Produce
FNE17-882	Defining honeybee pollen sources in Appalachia, July through October	\$14,968	Michael Staddon Honey Glen
FNE15-831	West Virginia Pollen Project 2015	\$14,990	Michael Staddon Honey Glen
FNE13-775	Hay net/plastic sleever	\$5,631	Lonnie Fast Fast Hay Movers Inc.
FNE12-759	Integrated trap crop and pheromone trap system for organic management of brown marmorated stink bug	\$14,998	Dr.Clarissa Mathews Redbud Farm, LLC
FNE10-678	Modified Use of Spored Oil for Profitable Production of Mushrooms	\$15,000	Lawrence Beckerle Mountaintop Quail Farms

FNE08-638	Using high tunnels to produce blackberries organically in West Virginia	\$6,318	William Jett Dr.Lewis Jett West Virginia University
FNE08-649	Open range woodlands: An untapped resource for small-scale farms	\$6,432	Chuck Talbott Black Oak Holler Farm, LLC
FNE08-651	Summer veggie snack mix: Product development and processing of excess summer vegetables into a value-added dried snack mix and soup blen	\$5,991	Pam West West Farm
FNE07-599	Medicinal herb seed and seedling rootlet production	\$7,115	David Carman
FNE06-577	Using three-quarter American chestnut hybrids for timber, wildlife, and nut production	\$5,234	Don W. Kines Mountain State Chestnuts
FNE06-593	Producing upscale pork for small-scale farmers: An Appalachian application	\$8,254	Chuck Talbott Black Oak Holler Farm, LLC
FNE05-554	Horn-faced bees vs. indigenous pollinators in blueberries	\$4,304	Robert McConnell McConnell Berry Farm
FNE04-519	Greenhouse Production of West Virginia '63 Tomato Seed	\$5,588	Karen Hyde
FNE04-522	Improved feasibility of sustainable salad production	\$9,199	Barry Landers Mountain State Innovations, INC
FNE04-526	Evaluating Marshall Ryegrass	\$1,699	Roy Metheney
FNE04-536	Pastured Rabbits	\$5,437	Cindy Welch Mountain Berry Farms
FNE04-538	An Economic Analysis of Precision Agriculture on Pastureland in Monroe County, WV	\$4,000	Brian Wicklline
FNE03-462	Yield Differences Between Log Cultivation of Shiitake Mushrooms and Indoor Enriched Blocks	\$5,740	Daniel Freeman Freeman Fungi
FNE03-475	Using Pasture Poultry as a Nitrogen Return for Summer Slump Grazing of Rape by Sheep	\$3,283	Isaac Lewis Greenwood Acres Farm
FNE02-417	Profitability of Ethnic Vegetable Varieties for Sale in Urban Niche Markets	\$2,811	Haroun Hallack Red Bud Farm
FNE02-438	Continuation and Refinement of Two Approaches to Farm-Grown Nitrogen	\$1,006	Susan Sauter

FNE02-440	West Virginia Herb Growers Research Project	\$6,879	Scott Snyder WV Herb Assoc.
FNE01-358	Essential Oil Distillation for West Virginia Herb Growers: A Smell-Good Project	\$6,035	Myra Bonhage-Hale La Paix Herb Farm
FNE01-365	Spuds – Under Organic Mulch vs. in the Soil	\$1,465	Sue Cosgrove LeeJun Farm
FNE01-397	Two Approaches to Farm-Grown Nitrogen	\$2,707	Susan Truxell Sauter
FNE00-295	Spuds – Under Organic Mulch vs. in the Soil	\$1,265	Sue Cosgrove LeeJun Farm
FNE00-326	American chestnut field trial.	\$4,335	Larry Boggs
FNE99-246	Intensive Grazing System	\$2,515	Milford Gibson
FNE99-279	Control of Eastern Red Cedar and Multiflora Rose by Nutrient Management and Intensive Grazing	\$8,500	Jason Teets Tiech Angus Farm
FNE99-283	Sustainable Production of Specialty Cut Flowers through Improved Soil Structure	\$2,154	Pam West West Farm
FNE99-286	Integrated Forest Farming: Medicinal Herb Cultivation, Mushroom Production, and Forest Restoration	\$7,995	Frederick D. Hayes
FNE99-291	Making the Farm Profitable Using Agroforestry	\$6,000	Bill Slagle
FNE98-225	Year Round Hydroponic Tomato Production	\$2,499	Donnie Tenney
FNE98-226	Expanding Local Production of Cage Cultured Hybrid Bass by Demonstrating an Integrated Approach with Limited Space and Equipment and Farmer Cooperation	\$4,996	Frederick D. Hayes
FNE97-163	Christmas Lights and Deer Scents	\$937	Myra Bonhage-Hale La Paix Herb Farm
FNE97-168	Evaluating Forage Quality and Yield in Pastures in the Shenandoah Valley	\$2,753	Bill Grantham
FNE95-110	Utilizing a Living Mulch System for Specialty Cut Flower Production &	\$1,605	Pam Talley

	Pasture Regeneration		
FNE93-004	Evaluation of Five Organic Techniques for Controlling Flea Beetles on Kennebec Potatoes	\$755	Myra Bonhage-Hale La Paix Herb Farm
FNE93-007	Ginseng Production Project	\$1,750	Van & Edna Wysong
FNE93-032	Managing Crowded Woodlots though Shiitake Mushroom Production	\$3,000	Pam Talley

GRADUATE STUDENT GRANTS

Project #	Project Title	SARE support	Project Leaders
GNE19-196	Characterization of Novel Long Non-coding RNAs and Their Roles as Indicators of Oocyte Quality in Cattle	\$14,884	Jianbo Yao Jaelyn Current West Virginia University
GNE14-079	The Effects of Poultry Litter Biochar as a Viable Feed Ingredient in Poultry Diets	\$14,989	Dr. Joseph Moritz West Virginia University Ashley Evans West Virginia University
GNE13-067	Novel blood metabolites as pre-onset predictors of postpartum metabolic disease in overconditioned transition dairy cows	\$14,995	Dr. Joseph McFadden Cornell University Jorge Eduardo Rico Navarrete West Virginia University
GNE12-041	Meeting demand for local food in West Virginia: Do regional factors limit or enable farmer supply response?	\$14,877	Cheryl Brown West Virginia University Ruth Oldham West Virginia University
GNE11-015	Increasing Adoption of Out-of-Season Breeding to Enhance Profitability of Sheep Producers in West Virginia	\$14,999	Marlon Knights West Virginia University Kellie D'Souza WVU
GNE11-029	Effect of Continuous Suckling/"Ewe-rearing" on Growth and Level of Parasitism of Lambs and on Productivity and Profitability of Lamb Operations	\$14,741	Marlon Knights West Virginia University Dr. Doolarie Singh-Knights, Ph.D. West Virginia University Stephanie Simpson WVU

ON FARM RESEARCH/PARTNERSHIP GRANTS

Project #	Project Title	SARE support	Project Leaders
ONE19-338	Preserving the Past for the Future: Evaluating Production, Processing and Marketing of Appalachian Heritage Beans	\$29,356	Lisa Jones West Virginia University
ONE19-342	Implementing Beginning Farmer Training in Geographic Areas via WV Collaborative Regional Alliance for Farmer Training	\$29,067	Spencer Moss
ONE19-347	Advancing Walnut Syrup Production for Increased Profitability and Farm Income Diversification	\$26,685	Dr. Michael Rechlin Future Generations University
ONE16-289c	West Virginia 2016 cover crop initiative for promoting soil health	\$11,107	Thomas Basden West Virginia University Extension Service

<u>ONE16-264</u>	Developing farm-to-institution grower capacity for leafy green vegetables in the Eastern Panhandle Region of West Virginia	\$14,965	Dr.Lewis Jett West Virginia University
<u>ONE16-273</u>	Exploring equipment sharing models in the rural Appalachian landscape of southern West Virginia	\$14,998	Anne Stroud Downstream Strategies
<u>ONE15-245</u>	Management of soilborne diseases in small farms with eco-friendly treatment options	\$14,792	Dr.Mahfuz Rahman West Virginia University
<u>ONE14-211</u>	The Farm Micro-Enterprise Development Program in the mid-Ohio Valley: Can extended season high tunnel production increase agricultural self-employment?	\$14,996	Lauren Kemp Unlimited Future Inc
<u>ONE14-223</u>	Enhancing productivity of sheep through greater access and use of genetically evaluated	\$12,156	Dr.Doolarie Singh-Knights, Ph.D. West Virginia University
<u>ONE12-168</u>	Empowering small farms to make big decisions: Examining profitability of local markets in West Virginia	\$14,959	Sigrid Teets WesMonTy RC&D
<u>ONE12-170</u>	Cooperative farm-to-school pilot program	\$4,697	Jennifer Poling West Virginia University Extension
<u>ONE09-105</u>	The Utility of Crotalaria juncea as a Cover Crop in a Temperate Climate	\$9,644	Dr.Gerald Leather West Virginia University
<u>ONE09-111</u>	Evaluating the Use and Seed Production of Forage Radishes in Field and Forage Crop Fields to Control Compaction, Concentrate Nutrients, Suppress Weeds and provide a local seed source in Limestone Soil of the Northern Shenandoah Valley	\$9,485	Craig Yohn West Virginia University Extension Service
<u>ONE05-049</u>	Evaluating hornfaced bees (<i>Osmia cornifrons</i> Radoszkowski) as pollinators of highbush blueberry	\$9,933	Dr.Todd West West Virginia University
<u>ONE04-023</u>	Use of a Baited Trap Crop for Stink Bug Management in Peaches	\$9,180	Henry Hogmire West Virginia University

SUSTAINABLE COMMUNITY INNOVATION GRANTS

Project #	Project Title	SARE support	Project Leaders
<u>CNE11-087</u>	Pocahontas County Marketing Coordinator	\$14,175	Jill Young Greenbrier Valley Economic Development Corp
<u>CNE08-038</u>	Farmers harness the web to market their products	\$10,000	Allen Arnold Collaborative for the 21st Century Appalachia
<u>CNE07-032</u>	Adding value to the sustainable farm	\$25,000	Allen Arnold Collaborative for the 21st Century Appalachia

CNE07-037	Development of an outreach program to promote wood residue utilization for bioenergy in West Virginia	\$24,962	Dr.Jingxin Wang West Virginia University
CNE06-001	Farm Fresh – Buying Local	\$9,582	Allen Arnold Collaborative for the 21st Century Appalachia

PDP STATE PROGRAM GRANTS

Project #	Project Title	SARE support	Project Leaders
NEWVU17-001	Enhancing the Viability and Profitability of Direct Sales and Agritourism Agripreneurs through Education, Clustering and Networking Opportunities	\$133,001	Dr.Doolarie Singh-Knights, Ph.D. West Virginia University
NEWVSU17-001	Growing Grant Writing and Management Capacity with WV Ag Service Providers to Support Our Ag Community	\$49,992	Barbara Liedl West Virginia State University
NEWVU14-001	Enhancing Farm Viability and Profitability through Improved Risk Management	\$133,755	Dr.Doolarie Singh-Knights, Ph.D. West Virginia University
NEWVSU14-001	Enhancing Farm Viability and Profitability through Improved Specialty Crop Production and Handling	\$49,859	Barbara Liedl West Virginia State University

**Total funding from the USDA SARE program to
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\$3,109,313**



For further information on projects, contact Deb Heleba, Northeast SARE communications specialist, at 802-651-8335, ext 552 or debra.heleba@uvm.edu.

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