



## AGRICULTURE PROJECTS FUNDED IN WEST VIRGINIA

by USDA's  
Sustainable Agriculture Research and Education (SARE) Program  
1988-2018

West Virginia has been awarded \$2,687,599 grants to support 87 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.

### State Sustainable Agriculture Coordinators:

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### RESEARCH AND EDUCATION GRANTS

Project #	Project Title	SARE support	Project Leaders
<a href="#">LNE17-359</a>	Obtaining preventative veterinary care in underserved areas	\$67,092	William Shockey West Virginia University
<a href="#">LNE16-350</a>	Refining an attracticidal sphere management system for spotted-wing drosophila in small fruit production	\$198,902	Dr.Tracy Leskey USDA-ARS
<a href="#">LNE14-333</a>	Enhancing the productivity of ewe lambs through the use of reproductive management	\$134,152	Marlon Knights West Virginia University
<a href="#">LNE14-334</a>	Building attract-and-kill systems for management of the brown marmorated stink bug in apple orchards	\$249,967	Dr.Tracy Leskey USDA-ARS
<a href="#">LNE06-249</a>	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
<a href="#">LNE05-218</a>	Multi-stakeholder collaboration for profitable and ecological cultivation of forest medicinals	\$103,500	Dennis Hosack Rural Action- Appalachian Forest Resource Center
<a href="#">LNE04-197</a>	Understanding and Improving E-Commerce Use by Small Farms	\$85,317	Cheryl Brown West Virginia University
<a href="#">LNE04-207</a>	Decision Enabling Data Collection and Management Project	\$100,081	Tom McConnell West Virginia University
<a href="#">LNE02-158</a>	Comparison of Organic Farming Systems Using Off-Farm Nitrogen with & without Animals	\$149,968	Sven Verlinden West Virginia University

<a href="#">LNE00-139</a>	Improving Farm Profits by Developing a Niche Market for Green-Certified Senior Calf Beef	\$112,621	W. Neil Gillies Cacapon Institute
<a href="#">LNE99-123</a>	Systems of Transition from Conventional to Organic Agricultural Production	\$212,247	James Kotcon College of Agriculture, Forestry & Consumer Sciences
<a href="#">LNE98-105</a>	Controlling Honeybee Mites with Essential Oils	\$80,000	Jamie Amrine West Virginia University

### PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

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

### FARMER/RANCHER GRANTS

Project #	Project Title	SARE support	Project Leaders
<a href="#">FNE18-907</a>	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
<a href="#">FNE17-870</a>	Determination of optimum planting dates for strawberry production in southern West Virginia	\$13,725	Kent Gilkerson Sunset Berry Farm & Produce
<a href="#">FNE17-882</a>	Defining honeybee pollen sources in Appalachia, July through October	\$14,968	Michael Staddon Honey Glen
<a href="#">FNE15-831</a>	West Virginia Pollen Project 2015	\$14,990	Michael Staddon Honey Glen
<a href="#">FNE13-775</a>	Hay net/plastic sleever	\$5,631	Lonnie Fast Fast Hay Movers Inc.

<a href="#">FNE12-759</a>	Integrated trap crop and pheromone trap system for organic management of brown marmorated stink bug	\$14,998	Dr. Clarissa Mathews Redbud Farm, LLC
<a href="#">FNE10-678</a>	Modified Use of Spored Oil for Profitable Production of Mushrooms	\$15,000	Lawrence Beckerle Mountaintop Quail Farms
<a href="#">FNE08-638</a>	Using high tunnels to produce blackberries organically in West Virginia	\$6,318	William Jett Dr. Lewis Jett West Virginia University
<a href="#">FNE08-649</a>	Open range woodlands: An untapped resource for small-scale farms	\$6,432	Chuck Talbott Black Oak Holler Farm, LLC
<a href="#">FNE08-651</a>	Summer veggie snack mix: Product development and processing of excess summer vegetables into a value-added dried snack mix and soup blend	\$5,991	Pam West West Farm
<a href="#">FNE07-599</a>	Medicinal herb seed and seedling rootlet production	\$7,115	David Carman
<a href="#">FNE06-593</a>	Producing upscale pork for small-scale farmers: An Appalachian application	\$8,254	Chuck Talbott Black Oak Holler Farm, LLC
<a href="#">FNE06-577</a>	Using three-quarter American chestnut hybrids for timber, wildlife, and nut production	\$5,234	Don W. Kines Mountain State Chestnuts
<a href="#">FNE05-554</a>	Horn-faced bees vs. indigenous pollinators in blueberries	\$4,304	Robert McConnell McConnell Berry Farm
<a href="#">FNE04-519</a>	Greenhouse Production of West Virginia '63 Tomato Seed	\$5,588	Karen Hyde
<a href="#">FNE04-522</a>	Improved feasibility of sustainable salad production	\$9,199	Barry Landers Mountain State Innovations, INC
<a href="#">FNE04-526</a>	Evaluating Marshall Ryegrass	\$1,699	Roy Metheney
<a href="#">FNE04-536</a>	Pastured Rabbits	\$5,437	Cindy Welch Mountain Berry Farms
<a href="#">FNE04-538</a>	An Economic Analysis of Precision Agriculture on Pastureland in Monroe County, WV	\$4,000	Brian Wickline
<a href="#">FNE03-475</a>	Using Pasture Poultry as a Nitrogen Return for Summer Slump Grazing of Rape by Sheep	\$3,283	Isaac Lewis Greenwood Acres Farm
<a href="#">FNE03-462</a>	Yield Differences Between Log Cultivation of Shiitake Mushrooms and Indoor Enriched Blocks	\$5,740	Daniel Freeman Freeman Fungi

<a href="#">FNE02-417</a>	Profitability of Ethnic Vegetable Varieties for Sale in Urban Niche Markets	\$2,811	Haroun Hallack Red Bud Farm
<a href="#">FNE02-438</a>	Continuation and Refinement of Two Approaches to Farm-Grown Nitrogen	\$1,006	Susan Sauter
<a href="#">FNE02-440</a>	West Virginia Herb Growers Research Project	\$6,879	Scott Snyder WV Herb Assoc.
<a href="#">FNE01-358</a>	Essential Oil Distillation for West Virginia Herb Growers: A Smell-Good Project	\$6,035	Myra Bonhage-Hale La Paix Herb Farm
<a href="#">FNE01-365</a>	Spuds – Under Organic Mulch vs. in the Soil	\$1,465	Sue Cosgrove LeeJun Farm
<a href="#">FNE01-397</a>	Two Approaches to Farm-Grown Nitrogen	\$2,707	Susan Truxell Sauter
<a href="#">FNE00-326</a>	American chestnut field trial.	\$4,335	Larry Boggs
<a href="#">FNE00-295</a>	Spuds – Under Organic Mulch vs. in the Soil	\$1,265	Sue Cosgrove LeeJun Farm
<a href="#">FNE99-246</a>	Intensive Grazing System	\$2,515	Milford Gibson
<a href="#">FNE99-279</a>	Control of Eastern Red Cedar and Multiflora Rose by Nutrient Management and Intensive Grazing	\$8,500	Jason Teets Tiech Angus Farm
<a href="#">FNE99-283</a>	Sustainable Production of Specialty Cut Flowers through Improved Soil Structure	\$2,154	Pam West West Farm
<a href="#">FNE99-286</a>	Integrated Forest Farming: Medicinal Herb Cultivation, Mushroom Production, and Forest Restoration	\$7,995	Frederick D. Hayes
<a href="#">FNE99-291</a>	Making the Farm Profitable Using Agroforestry	\$6,000	Bill Slagle
<a href="#">FNE98-226</a>	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
<a href="#">FNE98-225</a>	Year Round Hydroponic Tomato Production	\$2,499	Donnie Tenney
<a href="#">FNE97-163</a>	Christmas Lights and Deer Scents	\$937	Myra Bonhage-Hale La Paix Herb Farm

<a href="#">FNE97-168</a>	Evaluating Forage Quality and Yield in Pastures in the Shenandoah Valley	\$2,753	Bill Grantham
<a href="#">FNE95-110</a>	Utilizing a Living Mulch System for Specialty Cut Flower Production & Pasture Regeneration	\$1,605	Pam Talley
<a href="#">FNE93-004</a>	Evaluation of Five Organic Techniques for Controlling Flea Beetles on Kennebec Potatoes	\$755	Myra Bonhage-Hale La Paix Herb Farm
<a href="#">FNE93-007</a>	Ginseng Production Project	\$1,750	Van & Edna Wysong
<a href="#">FNE93-032</a>	Managing Crowded Woodlots though Shiitake Mushroom Production	\$3,000	Pam Talley

### GRADUATE STUDENT GRANTS

Project #	Project Title	SARE support	Project Leaders
<a href="#">GNE14-079</a>	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
<a href="#">GNE13-067</a>	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
<a href="#">GNE12-041</a>	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
<a href="#">GNE11-015</a>	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
<a href="#">GNE11-029</a>	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
<a href="#">ONE16-289c</a>	West Virginia 2016 cover crop initiative for promoting soil health	\$11,107	Thomas Basden West Virginia University Extension Service
<a href="#">ONE16-264</a>	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
<a href="#">ONE16-273</a>	Exploring equipment sharing models in the rural Appalachian landscape of southern West Virginia	\$14,998	Anne Stroud Downstream Strategies
<a href="#">ONE15-245</a>	Management of soilborne diseases in	\$14,792	Dr. Mahfuz Rahman

	small farms with eco-friendly treatment options		West Virginia University
<a href="#">ONE14-211</a>	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
<a href="#">ONE14-223</a>	Enhancing productivity of sheep through greater access and use of genetically evaluated	\$12,156	Dr.Doolarie Singh-Knights, Ph.D. West Virginia University
<a href="#">ONE12-168</a>	Empowering small farms to make big decisions: Examining profitability of local markets in West Virginia	\$14,959	Sigrid Teets WesMonTy RC&D
<a href="#">ONE12-170</a>	Cooperative farm-to-school pilot program	\$4,697	Jennifer Poling West Virginia University Extension
<a href="#">ONE09-111</a>	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
<a href="#">ONE09-105</a>	The Utility of Crotalaria juncea as a Cover Crop in a Temperate Climate	\$9,644	Dr.Gerald Leather West Virginia University
<a href="#">ONE05-049</a>	Evaluating hornfaced bees ( <i>Osmia cornifrons</i> Radoszkowski) as pollinators of highbush blueberry	\$9,933	Dr.Todd West West Virginia University
<a href="#">ONE04-023</a>	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
<a href="#">CNE11-087</a>	Pocahontas County Marketing Coordinator	\$14,175	Jill Young Greenbrier Valley Economic Development Corp
<a href="#">CNE08-038</a>	Farmers harness the web to market their products	\$10,000	Allen Arnold Collaborative for the 21st Century Appalachia
<a href="#">CNE07-032</a>	Adding value to the sustainable farm	\$25,000	Allen Arnold Collaborative for the 21st Century Appalachia
<a href="#">CNE07-037</a>	Development of an outreach program to promote wood residue utilization for bioenergy in West Virginia	\$24,962	Dr.Jingxin Wang West Virginia University
<a href="#">CNE06-001</a>	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
<a href="#">NEWVSU17-001</a>	Growing Grant Writing and Management Capacity with WV Ag Service Providers to Support Our Ag Community	\$16,664	Barbara Liedl West Virginia State University
<a href="#">NEWVU17-001</a>	Enhancing the Viability and Profitability of Direct Sales and Agritourism Agripreneurs through Education, Clustering and Networking Opportunities	\$44,420	Dr.Doolarie Singh-Knights, Ph.D. West Virginia University
<a href="#">NEWVU14-001</a>	Enhancing Farm Viability and Profitability through Improved Risk Management	\$133,755	Dr.Doolarie Singh-Knights, Ph.D. West Virginia University
<a href="#">NEWVSU14-001</a>	Enhancing Farm Viability and Profitability through Improved Specialty Crop Production and Handling	\$49,859	Barbara Liedl West Virginia State University

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\$2,687,599**

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

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