What is SARE?

Since 1988, the Sustainable Agriculture Research & Education (SARE) program has been the go-to USDA grants and outreach program for farmers, ranchers, researchers and educators who want to develop innovations that improve farm profitability, protect water and land, and revitalize communities. To date, SARE has awarded over $389 million to more than 8,542 initiatives.

SARE is grassroots with far-reaching impact

Four regional councils of expert practitioners set priorities and make grants in every state and island protectorate.

SARE communicates results

SARE shares project results by requiring grantees to conduct outreach and grower engagement; and by maintaining an online library of practical publications, granteeproduced information products and other educational materials.

SARE: Advancing the Frontier of Sustainable Agriculture in...

West Virginia

Project Highlight: Low Cost Self-Sustaining Year-Round High Tunnel Temperature Control

A group of researchers from Caldwell, West Virginia, worked with SARE to discover if they can use solar and wind energy to power temperature-controlled farming tunnels. For years, farmers who live in climates with highly variable weather conditions have struggled to maintain stable crop production. As a result, many producers whose farms are susceptible to these extreme temperature conditions have turned to temperature-controlled tunnels as a solution. Unfortunately, the energy costs that it takes to maintain these tunnels are very expensive and are therefore not readily available to most producers. To combat this, Tommye Rafes from T. L. Fruits and Vegetables LLC partnered with SARE to fund an experiment to see if powering the tunnels with solar and wind energy would be more cost effective.

After obtaining a SARE grant, Rafes and his team compared the cost of operating the tunnels using three different energy sources: 1) a propane/natural gas heating system, 2) a geothermal network that is not self-sustaining and 3) a self-sustaining solar/wind energy system. The researchers compared and analyzed every aspect of these three conditions, including energy output, equipment and installation costs, labor fees, etc. to find out which type of tunnel would be most beneficial for producers. This research provides a great insight into the costs and benefits of each method, providing producers with an educational resource that they can use to help decide which type of energy would be best for them. Overall, the data collected indicated that solar energy was the most cost effective and provided the most sustainable source of energy for farmers who want to grow crops in extreme weather conditions.

For more information on this project, see sare.org/projects and search for project number FNE20-962.

SARE in West Virginia

northeast.sare.org/sare-in-your-state/west-virginia

$4,807,369 in total funding

115 grant projects (since 1988)

For a complete list of grant projects state by state, go to www.sare.org/state-summaries
SARE Grants in West Virginia

Total awards: 115 grants
- 15 Research and Education
- 5 Sustainable Community Innovation
- 13 Professional Development Program
- 47 Farmer/Rancher
- 8 Graduate Student
- 23 On Farm Research/Partnership
- 4 Research Only

Total funding: $4,807,369
- $2,082,878 Research and Education
- $83,719 Sustainable Community Innovation
- $1,107,834 Professional Development Program
- $325,523 Farmer/Rancher
- $119,411 Graduate Student
- $451,657 On Farm Research/Partnership
- $636,347 Research Only

Find a complete list of projects on page 3.

SARE's Impact

53 percent of producers report using a new production technique after reading a SARE publication.

79 percent of producers said they improved soil quality through their SARE project.

64 percent of producers said their SARE project helped them achieve higher sales.

Learn about local impacts at: northeast.sare.org/sare-in-your-state/west-virginia

Contact Your SARE State Coordinator

SARE sustainable ag coordinators run state-level educational programs for Extension and other ag professionals, and many help grant applicants and recipients with planning and outreach. Visit northeast.sare.org/state-pages/west-virginia to learn more.

Barbara Liedl
West Virginia State University
(304) 204-4037
liedlbe@wvstateu.edu

Doolarie Singh-Knights
University of West Virginia
(304) 293-7606
dosingh-knights@mail.wvu.edu

SARE is funded by the USDA’s National Institute of Food and Agriculture (NIFA).

This report includes summaries of competitive grant programs only. Some competitive grant programs that are no longer offered may be included or excluded from the totals in this report depending on the grant program and SARE region.

For detailed information on SARE projects, go to www.SARE.org
West Virginia has been awarded $4,807,369 grants to support 114 projects, including but not limited to, 14 research and/or education projects, 13 professional development projects and 47 producer-led projects. West Virginia has also received additional SARE support through multi-state projects.

### RESEARCH AND EDUCATION GRANTS

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
<tbody>
<tr>
<td>LNE21-420</td>
<td>Developing an Affordable Soil Health Test for the Appalachian Region to Incentivize Sustainable Agricultural Production</td>
<td>$248,302</td>
<td>Dr. Eugenia Pena-Yewtukhiw West Virginia University</td>
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<tr>
<td>LNE20-401</td>
<td>Optimization of Preventative Biorational Strawberry Fruit and Root Disease Management Techniques</td>
<td>$244,349</td>
<td>Dr. Mahfuz Rahman West Virginia University</td>
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<tr>
<td>LNE17-359</td>
<td>Obtaining preventative veterinary care in underserved areas</td>
<td>$67,092</td>
<td>William Shockey West Virginia University</td>
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<tr>
<td>LNE16-350</td>
<td>Refining an attracticidal sphere management system for spotted-wing drosophila in small fruit production</td>
<td>$198,902</td>
<td>Dr. Tracy Leskey USDA-ARS</td>
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<tr>
<td>LNE14-333</td>
<td>Enhancing the productivity of ewe lambs through the use of reproductive management</td>
<td>$134,152</td>
<td>Marlon Knights West Virginia University</td>
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<tr>
<td>LNE14-334</td>
<td>Building attract-and-kill systems for management of the brown marmorated stink bug in apple orchards</td>
<td>$249,967</td>
<td>Dr. Tracy Leskey USDA-ARS</td>
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<tr>
<td>LNE06-249</td>
<td>Evaluation of field density, cultivar preference, and northeast grower evaluation of the hornfaced bee as an alternative sustainable pollinator for highbush blueberry production</td>
<td>$96,380</td>
<td>Dr. Todd West West Virginia University</td>
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<tr>
<td>LNE05-218</td>
<td>Multi-stakeholder collaboration for profitable and ecological cultivation of forest medicinals</td>
<td>$103,500</td>
<td>Dennis Hosack Rural Action- Appalachian Forest Resource Center</td>
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<tr>
<td>LNE04-197</td>
<td>Understanding and Improving E-Commerce Use by Small Farms</td>
<td>$85,317</td>
<td>Cheryl Brown West Virginia University</td>
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<tr>
<td>LNE04-207</td>
<td>Decision Enabling Data Collection and Management Project</td>
<td>$100,081</td>
<td>Tom McConnell West Virginia University</td>
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<tr>
<td>LNE02-158</td>
<td>Comparison of Organic Farming Systems Using Off-Farm Nitrogen with &amp; without Animals</td>
<td>$149,968</td>
<td>Sven Verlinden West Virginia University</td>
</tr>
<tr>
<td>LNE00-139</td>
<td>Improving Farm Profits by Developing a Niche Market for Green-Certified Senior Calf Beef</td>
<td>$112,621</td>
<td>W. Neil Gillies Cacapon Institute</td>
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</table>
### RESEARCH ONLY GRANTS

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
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</thead>
<tbody>
<tr>
<td>LNE21-427R</td>
<td>Stacking Robust Resistance to Septoria Leaf Spot from Wild Germplasm Accessions into the Cultivated Tomato</td>
<td>$198,977</td>
<td>Dr. Vagner Benedito</td>
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<tr>
<td>LNE20-410R</td>
<td>Designing and Building Centrifuges to Clarify Maple and Walnut Syrup</td>
<td>$49,824</td>
<td>Dr. Michael Rechlin</td>
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<tr>
<td>LNE20-411R</td>
<td>UV-C Light Application Technology for Field-Grown Strawberries to Control Fungal Diseases and Arthropod Pests</td>
<td>$187,733</td>
<td>Dr. Tracy Leskey</td>
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<tr>
<td>LNE19-387R</td>
<td>A Novel Phosphate Sorbent to Reduce Non-point Source Pollution and Increase Plant Production</td>
<td>$199,813</td>
<td>Lian-Shin Lin</td>
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</table>

### PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

<table>
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<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
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</thead>
<tbody>
<tr>
<td>ENE23-186</td>
<td>Value-Added Coaching Program for West Virginia Agricultural Service Providers</td>
<td>$149,999</td>
<td>Jennifer Totten</td>
</tr>
<tr>
<td>ENE23-184</td>
<td>Agritourism and Land Use: Good Neighbors and Good Business for Rural Resilience</td>
<td>$149,900</td>
<td>Jodi Richmond</td>
</tr>
<tr>
<td>ENE22-178</td>
<td>Sprout School: Developing a Comprehensive Farm to School Toolkit for Central Appalachia</td>
<td>$150,000</td>
<td>Jennifer Totten</td>
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<tr>
<td>ENE21-168</td>
<td>Reading the Woods: Training West Virginia Agricultural Service Providers on Non-Timber Forest Products</td>
<td>$149,878</td>
<td>Dr. A.L. “Tom” Hammett</td>
</tr>
<tr>
<td>ENE20-161</td>
<td>Building Efficacy and Financial Success among West Virginia Producers via Farmers Market Manager Education</td>
<td>$85,958</td>
<td>Erica Gallimore</td>
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<tr>
<td>ENE20-163</td>
<td>From Seed to Sale: Market-Driven High Tunnel Production Education for West Virginia Agricultural Providers</td>
<td>$112,771</td>
<td>Lisa Jones</td>
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<tr>
<td>ENE12-126</td>
<td>Professional Development for Agricultural Service Providers in Pollution Discharge Elimination System</td>
<td>$26,699</td>
<td>Dr. Doolarie Singh-Knights, Ph.D.</td>
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<tr>
<td>ENE08-109</td>
<td>An Educational Program to Expand Season Extension of Horticulture Crops in West Virginia</td>
<td>$52,517</td>
<td>Dr. Lewis Jett</td>
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<tr>
<td>ENE03-077</td>
<td>Timber to truffles: West Virginia workshops in traditional and special forest products</td>
<td>$61,614</td>
<td>Dr. David McGill</td>
</tr>
<tr>
<td>Project #</td>
<td>Project Title</td>
<td>SARE Support</td>
<td>Project Leaders</td>
</tr>
<tr>
<td>-----------</td>
<td>--------------------------------------------------------------------------------</td>
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<td>------------------------------------------------------</td>
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</tbody>
</table>
| ENE03-078 | Increasing returns from farm woodlots with owner-operated processing of timber | $79,895      | Dr. 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** |                                                                                  |              |                                                      |
| FNE23-062 | Off Grid Heating and Cooling for Greenhouses                                      | $30,000      | Audra O'Dell  
Random Rabbit LLC                                   |
| FNE22-026 | Analysis of Organic Matter and Pipe Depth in a Geothermal Climate Battery High Tunnel | $14,955      | Tommye Rafes  
T. L. Fruits and Vegetables LLC                      |
| FNE21-970 | Trialing Cultivating Chicken of the Woods Using Standard Mushroom Farm Technology While Confirming PCR Primer Sequence Traits in Fruiting Bodies | $14,356      | Sharon Briggs  
Peasant's Parcel Mushroom Farm                       |
| FNE21-982 | A Practical Comparison of Cold Storage and Traditional Outdoor Hive Wintering Methods in Central West Virginia | $7,317       | Eric Grandon  
Sugar Bottom Farm LLC                                 |
| FNE20-962 | Low Cost Self-Sustaining Year-Round High Tunnel Temperature Control              | $14,781      | Tommye Rafes  
T. L. Fruits and Vegetables LLC                      |
| 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                           |
<table>
<thead>
<tr>
<th>Grant Number</th>
<th>Project Title</th>
<th>Award Amount</th>
<th>Investigator</th>
<th>Institution</th>
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<tr>
<td>FNE08-649</td>
<td>Open range woodlands: An untapped resource for small-scale farms</td>
<td>$6,432</td>
<td>Chuck Talbott</td>
<td>Black Oak Holler Farm, LLC</td>
</tr>
<tr>
<td>FNE08-651</td>
<td>Summer veggie snack mix: Product development and processing of excess summer vegetables into a value-added dried snack mix and soup blend</td>
<td>$5,991</td>
<td>Pam West</td>
<td>West Farm</td>
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<tr>
<td>FNE07-599</td>
<td>Medicinal herb seed and seedling rootlet production</td>
<td>$7,115</td>
<td>David Carman</td>
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<tr>
<td>FNE06-577</td>
<td>Using three-quarter American chestnut hybrids for timber, wildlife, and nut production</td>
<td>$5,234</td>
<td>Don W. Kines</td>
<td>Mountain State Chestnuts</td>
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<tr>
<td>FNE06-593</td>
<td>Producing upscale pork for small-scale farmers: An Appalachian application</td>
<td>$8,254</td>
<td>Chuck Talbott</td>
<td>Black Oak Holler Farm, LLC</td>
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<tr>
<td>FNE05-554</td>
<td>Horn-faced bees vs. indigenous pollinators in blueberries</td>
<td>$4,304</td>
<td>Robert McConnell</td>
<td>McConnell Berry Farm</td>
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<tr>
<td>FNE04-519</td>
<td>Greenhouse Production of West Virginia ’63 Tomato Seed</td>
<td>$5,588</td>
<td>Karen Hyde</td>
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<tr>
<td>FNE04-522</td>
<td>Improved feasibility of sustainable salad production</td>
<td>$9,199</td>
<td>Barry Landers</td>
<td>Mountain State Innovations, INC</td>
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<tr>
<td>FNE04-526</td>
<td>Evaluating Marshall Ryegrass</td>
<td>$1,699</td>
<td>Roy Metheney</td>
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<tr>
<td>FNE04-536</td>
<td>Pastured Rabbits</td>
<td>$5,437</td>
<td>Cindy Welch</td>
<td>Mountain Berry Farms</td>
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<tr>
<td>FNE04-538</td>
<td>An Economic Analysis of Precision Agriculture on Pastureland in Monroe County, WV</td>
<td>$4,000</td>
<td>Brian Wicklline</td>
<td></td>
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<tr>
<td>FNE03-462</td>
<td>Yield Differences Between Log Cultivation of Shiitake Mushrooms and Indoor Enriched Blocks</td>
<td>$5,740</td>
<td>Daniel Freeman</td>
<td>Freeman Fungi</td>
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<td>FNE03-475</td>
<td>Using Pasture Poultry as a Nitrogen Return for Summer Slump Grazing of Rape by Sheep</td>
<td>$3,283</td>
<td>Isaac Lewis</td>
<td>Greenwood Acres Farm</td>
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<tr>
<td>FNE02-417</td>
<td>Profitability of Ethnic Vegetable Varieties for Sale in Urban Niche Markets</td>
<td>$2,811</td>
<td>Haroun Hallack</td>
<td>Red Bud Farm</td>
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<tr>
<td>FNE02-438</td>
<td>Continuation and Refinement of Two Approaches to Farm-Grown Nitrogen</td>
<td>$1,006</td>
<td>Susan Sauter</td>
<td></td>
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<tr>
<td>FNE02-440</td>
<td>West Virginia Herb Growers Research Project</td>
<td>$6,879</td>
<td>Scott Snyder</td>
<td>WV Herb Assoc.</td>
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<tr>
<td>FNE01-358</td>
<td>Essential Oil Distillation for West Virginia Herb Growers: A Smell-Good Project</td>
<td>$6,035</td>
<td>Myra Bonhage-Hale</td>
<td>La Paix Herb Farm</td>
</tr>
<tr>
<td>FNE01-365</td>
<td>Spuds - Under Organic Mulch vs. in the Soil</td>
<td>$1,465</td>
<td>Sue Cosgrove</td>
<td>LeeJun Farm</td>
</tr>
</tbody>
</table>
Two Approaches to Farm-Grown Nitrogen  
Susan Truxell Sauter

Spuds - Under Organic Mulch vs. in the Soil  
Sue Cosgrove  
LeeJun Farm

American chestnut field trial.  
Larry Boggs

Intensive Grazing System  
Milford Gibson

Control of Eastern Red Cedar and Multiflora Rose by Nutrient Management and Intensive Grazing  
Jason Teets  
Tiech Angus Farm

Sustainable Production of Specialty Cut Flowers through Improved Soil Structure  
Pam West  
West Farm

Integrated Forest Farming: Medicinal Herb Cultivation, Mushroom Production, and Forest Restoration  
Frederick D. Hayes

Making the Farm Profitable Using Agroforestry  
Bill Slagle

Year Round Hydroponic Tomato Production  
Donnie Tenney

Expanding Local Production of Cage Cultured Hybrid Bass by Demonstrating an Integrated Approach with Limited Space and Equipment and Farmer Cooperation  
Frederick D. Hayes

Christmas Lights and Deer Scents  
Myra Bonhage-Hale  
La Paix Herb Farm

Evaluating Forage Quality and Yield in Pastures in the Shenandoah Valley  
Bill Grantham

Utilizing a Living Mulch System for Specialty Cut Flower Production & Pasture Regeneration  
Pam Talley

Evaluation of Five Organic Techniques for Controlling Flea Beetles on Kennebec Potatoes  
Myra Bonhage-Hale  
La Paix Herb Farm

Ginseng Production Project  
Van & Edna Wysong

Managing Crowded Woodlots though Shiitake Mushroom Production  
Pam Talley

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**GRADUATE STUDENT GRANTS**

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
</table>
| GNE22-279 | Improving immune competence and disease resistance in sheep by selecting for parasite resistance. | $15,000      | Dr. Scott Bowdridge  
West Virginia University  
Kelsey Bentley  
West Virginia University - Doctoral Student |
Characterization of agouti-signaling protein during oocyte maturation and early embryonic development to improve in vitro embryo production in cattle

$14,926

Jianbo Yao
West Virginia University
Heather Chaney
West Virginia University

Characterization of Novel Long Non-coding RNAs and Their Roles as Indicators of Oocyte Quality in Cattle

$14,884

Jianbo Yao
West Virginia University
Jaelyn Current
West Virginia University

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

Novel blood metabolites as pre-onset predictors of postpartum metabolic disease in overconditioned transition dairy cows

$14,955

Dr. Joseph McFadden
Cornell University
Jorge Eduardo Rico Navarrete
West Virginia University

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

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

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**

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
</table>
| ONE21-388 | Evaluation of Pelletized Poultry Litter to Improve Specialty Crop Production in West Virginia | $29,944 | Candace DeLong
West Virginia University |
| ONE21-393 | Production and Value-Added Processing of Cultivated and Wild-Harvested Elderberries in West Virginia | $29,700 | Dr. Lewis Jett
West Virginia University |
| ONE21-400 | Hopping on Hops: Technical Assistance and Peer-to-Peer Mentorship to Support West Virginia Hops Growers | $29,999 | Spencer Moss
West Virginia Food & Farm Coalition |
| ONE21-383 | Increasing the Product Supply of Ramps via Enhanced Plantings and Educational Farm Programming | $29,876 | Dr. David McGill
WVU Appalachian Hardwood Center |
| ONE21-403 | Training Small Farmers for Commercial Seed Production while Exploring Profitability of Annual Vegetable Seed Crops in West Virginia | $16,996 | Dr. Mehmet Oztan
West Virginia University |
| ONE21-404 | Sycamore Syrup: Generating Farm Income and Protecting Riparian Zones in West Virginia | $29,996 | Dr. Michael Rechlin
Future Generations University |
| ONE21-405 | Is Copper Deficiency Killing Our Sheep? Micronutrient Availability and Their Effects on Sheep Health and Production. | $29,955 | Alexandria Smith
WVU Extension |
<table>
<thead>
<tr>
<th>Project Code</th>
<th>Project Title</th>
<th>Budget</th>
<th>Principal Investigator</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>ONE20-377</td>
<td>Management of Powdery Mildew in Greenhouse and High Tunnel Tomatoes by Using Ultraviolet C Light</td>
<td>$29,171</td>
<td>Dr. Mahfuz Rahman</td>
<td>West Virginia University</td>
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<tr>
<td>ONE19-338</td>
<td>Preserving the Past for the Future: Evaluating Production, Processing and Marketing of Appalachian Heritage Beans</td>
<td>$29,356</td>
<td>Lisa Jones</td>
<td>West Virginia University</td>
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<tr>
<td>ONE19-342</td>
<td>Implementing Beginning Farmer Training in Geographic Areas via WV Collaborative Regional Alliance for Farmer Training</td>
<td>$29,067</td>
<td>Spencer Moss</td>
<td>West Virginia Food &amp; Farm Coalition</td>
</tr>
<tr>
<td>ONE19-347</td>
<td>Advancing Walnut Syrup Production for Increased Profitability and Farm Income Diversification</td>
<td>$26,685</td>
<td>Dr. Michael Rechlin</td>
<td>Future Generations University</td>
</tr>
<tr>
<td>ONE16-264</td>
<td>Developing farm-to-institution grower capacity for leafy green vegetables in the Eastern Panhandle Region of West Virginia</td>
<td>$14,965</td>
<td>Dr. Lewis Jett</td>
<td>West Virginia University</td>
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<tr>
<td>ONE16-273</td>
<td>Exploring equipment sharing models in the rural Appalachian landscape of southern West Virginia</td>
<td>$14,998</td>
<td>Anne Stroud</td>
<td>Downstream Strategies</td>
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<tr>
<td>ONE16-289c</td>
<td>West Virginia 2016 cover crop initiative for promoting soil health</td>
<td>$11,107</td>
<td>Thomas Basden</td>
<td>West Virginia University Extension Service</td>
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<tr>
<td>ONE15-245</td>
<td>Management of soilborne diseases in small farms with eco-friendly treatment options</td>
<td>$14,792</td>
<td>Dr. Mahfuz Rahman</td>
<td>West Virginia University</td>
</tr>
<tr>
<td>ONE14-211</td>
<td>The Farm Micro-Enterprise Development Program in the mid-Ohio Valley: Can extended season high tunnel production increase agricultural self-employment?</td>
<td>$14,996</td>
<td>Lauren Kemp</td>
<td>Unlimited Future Inc</td>
</tr>
<tr>
<td>ONE14-223</td>
<td>Enhancing productivity of sheep through greater access and use of genetically evaluated</td>
<td>$12,156</td>
<td>Dr. Doolarie Singh-Knights, Ph.D.</td>
<td>West Virginia University</td>
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<tr>
<td>ONE12-168</td>
<td>Empowering small farms to make big decisions: Examining profitability of local markets in West Virginia</td>
<td>$14,959</td>
<td>Sigrid Teets</td>
<td>WesMonTy RC&amp;D</td>
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<tr>
<td>ONE12-170</td>
<td>Cooperative farm-to-school pilot program</td>
<td>$4,697</td>
<td>Jennifer Poling</td>
<td>West Virginia University Extension</td>
</tr>
<tr>
<td>ONE09-105</td>
<td>The Utility of Crotalaria juncea as a Cover Crop in a Temperate Climate</td>
<td>$9,644</td>
<td>Dr. Gerald Leather</td>
<td>West Virginia University</td>
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<tr>
<td>ONE09-111</td>
<td>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</td>
<td>$9,485</td>
<td>Craig Yohn</td>
<td>West Virginia University Extension Service</td>
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<tr>
<td>ONE05-049</td>
<td>Evaluating hornfaced bees (Osmia cornifrons Radoszkowski) as pollinators of highbush blueberry</td>
<td>$9,933</td>
<td>Dr. Todd West</td>
<td>West Virginia University</td>
</tr>
<tr>
<td>ONE04-023</td>
<td>Use of a Baited Trap Crop for Stink Bug Management in Peaches</td>
<td>$9,180</td>
<td>Henry Hogmire</td>
<td>West Virginia University</td>
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</tbody>
</table>
# SUSTAINABLE COMMUNITY INNOVATION GRANTS

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNE11-087</td>
<td>Pocahontas County Marketing Coordinator</td>
<td>$14,175</td>
<td>Jill Young&lt;br&gt;Greenbrier Valley Economic Development Corp</td>
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<tr>
<td>CNE08-038</td>
<td>Farmers harness the web to market their products</td>
<td>$10,000</td>
<td>Allen Arnold&lt;br&gt;Collaborative for the 21st Century Appalachia</td>
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<tr>
<td>CNE07-032</td>
<td>Adding value to the sustainable farm</td>
<td>$25,000</td>
<td>Allen Arnold&lt;br&gt;Collaborative for the 21st Century Appalachia</td>
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<tr>
<td>CNE07-037</td>
<td>Development of an outreach program to promote wood residue utilization for bioenergy in West Virginia</td>
<td>$24,962</td>
<td>Dr. Jingxin Wang&lt;br&gt;West Virginia University</td>
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<tr>
<td>CNE06-001</td>
<td>Farm Fresh - Buying Local</td>
<td>$9,582</td>
<td>Allen Arnold&lt;br&gt;Collaborative for the 21st Century Appalachia</td>
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</tbody>
</table>

**Total funding from the USDA SARE program to West Virginia**

$4,807,369

For further information on projects, contact 802-651-8335 or nesare@uvm.edu.

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