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 $310 million to more than 7,433 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, grantee-produced information products and other educational materials.

Project Highlight: Seeking Solutions in the Fight Against Stink Bug

Farmer Clarissa Mathews struggled, along with many other West Virginia farmers, with the Brown Marmorated Stink Bug (BMSB). This highly invasive pest causes significant crop losses, and all vegetable and fruit crops are vulnerable. To manage the pest, frequent applications of broad-spectrum insecticides, toxic to beneficial organisms, are commonly used.

Two SARE-funded projects sought out alternative solutions. In one, Mathews investigated a non-chemical approach combining a highly attractive trap crop buffer with commercially available pheromone-baited traps. On a subsequent project, USDA researcher Tracy Lesky partnered with Mathews to manage BMSB in apples using the same tools.

Mathews found that stink bugs were highly attracted to a sunflower trap crop. However, reduced stink bug densities in cash crops did not mean significantly lower crop damage or higher yields. Thus, she concluded that while effective for organic farmers unable to use synthetic insecticides, the pheromone lure needed to be incorporated within the trap crop, not on the sides. Lesky’s follow-up project is looking at the same approach, except farmers who are not organic will apply the insecticides near the attract and kill sites. Lesky is already finding success with the approach and interest from farmers.

For more information on these projects, see sare.org/projects, and search for project numbers LNE14-334 and FNE12-759.

SARE in West Virginia

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

$3,383,574 in total funding

91 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: 91 grants
- 43 Farmer/Rancher
- 6 Graduate Student
- 16 On Farm Research/Partnership
- 9 Professional Development Program
- 14 Research and Education
- 3 Research Only

Total funding: $3,383,574
- $258,895 Farmer/Rancher
- $89,485 Graduate Student
- $255,191 On Farm Research/Partnership
- $508,057 Professional Development Program
- $1,834,576 Research and Education
- $437,370 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
West Virginia University
(304) 293-7606
dosingh-knights@mail.wvu.edu

For detailed information on SARE projects, go to www.SARE.org

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.
West Virginia has been awarded $3,467,293 grants to support 95 projects, including but not limited to, 13 research and/or education projects, 9 professional development projects and 43 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>LNE20-401</td>
<td>Optimization of preventative biorational strawberry fruit and root disease management techniques: linking university research to growers education</td>
<td>$244,349</td>
<td>Dr. Mahfuz Rahman</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>West Virginia University</td>
</tr>
<tr>
<td>LNE17-359</td>
<td>Obtaining preventative veterinary care in underserved areas</td>
<td>$67,092</td>
<td>William Shockey</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>West Virginia University</td>
</tr>
<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</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>USDA-ARS</td>
</tr>
<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</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>USDA-ARS</td>
</tr>
<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</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>West Virginia University</td>
</tr>
<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</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>West Virginia University</td>
</tr>
<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</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Rural Action- Appalachian Forest Resource Center</td>
</tr>
<tr>
<td>LNE04-197</td>
<td>Understanding and Improving E-Commerce Use by Small Farms</td>
<td>$85,317</td>
<td>Cheryl Brown</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>West Virginia University</td>
</tr>
<tr>
<td>LNE04-207</td>
<td>Decision Enabling Data Collection and Management Project</td>
<td>$100,081</td>
<td>Tom McConnell</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>West Virginia University</td>
</tr>
<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</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>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</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cacapon Institute</td>
</tr>
<tr>
<td>LNE99-123</td>
<td>Systems of Transition from Conventional to Organic Agricultural Production</td>
<td>$212,247</td>
<td>James Kotcon</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>College of Agriculture, Forestry &amp; Consumer Sciences</td>
</tr>
</tbody>
</table>
### RESEARCH ONLY GRANTS

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
</table>
| LNE20-411R | UV-C light application technology for field-grown strawberries to control fungal diseases and arthropod pests | $187,733     | Dr. Fumiomi Takeda  
 Appalachian Fruit Research Station, US  
 Department of Agriculture, Agricultural Research Service |
| LNE20-410R | Designing and Building Centrifuges to Clarify Maple and Walnut Syrup          | $49,824      | Dr. Michael Rechlin  
 Future Generations University                        |
| LNE19-387R | A Novel Phosphate Sorbent to Reduce Non-point Source Pollution and Increase Plant Production | $199,813     | Lian-Shin Lin  
 West Virginia University                        |

### PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
</table>
| ENE20-161  | Building Efficacy and Financial Success among West Virginia Producers via Farmers Market Manager Education | $85,958      | Erica Gallimore  
 West Virginia Farmers Market Association                                      |
| ENE20-163  | From Seed to Sale: Market-Driven High Tunnel Production Education for West Virginia Agricultural Providers | $112,771     | Lisa Jones  
 West Virginia University                                      |
| 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                                      |
| ENE03-078  | Increasing returns from farm woodlots with owner-operated processing of timber                    | $79,895      | David McGill  
 WVU Appalachian Hardwood Center                               |
| ENE03-077  | Timber to truffles: West Virginia workshops in traditional and special forest products              | $61,614      | 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

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
</table>
| 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                             |
<table>
<thead>
<tr>
<th>Project Code</th>
<th>Project Title</th>
<th>Award Amount</th>
<th>Investigator(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FNE17-870</td>
<td>Determination of optimum planting dates for strawberry production in southern West Virginia</td>
<td>$13,725</td>
<td>Kent Gilkerson, Sunset Berry Farm &amp; Produce</td>
</tr>
<tr>
<td>FNE17-882</td>
<td>Defining honeybee pollen sources in Appalachia, July through October</td>
<td>$14,968</td>
<td>Michael Staddon, Honey Glen</td>
</tr>
<tr>
<td>FNE15-831</td>
<td>West Virginia Pollen Project 2015</td>
<td>$14,990</td>
<td>Michael Staddon, Honey Glen</td>
</tr>
<tr>
<td>FNE13-775</td>
<td>Hay net/plastic sleever</td>
<td>$5,631</td>
<td>Lonnie Fast, Fast Hay Movers Inc.</td>
</tr>
<tr>
<td>FNE12-759</td>
<td>Integrated trap crop and pheromone trap system for organic management of brown marmorated stink bug</td>
<td>$14,998</td>
<td>Dr. Clarissa Mathews, Redbud Farm, LLC</td>
</tr>
<tr>
<td>FNE10-678</td>
<td>Modified Use of Spored Oil for Profitable Production of Mushrooms</td>
<td>$15,000</td>
<td>Lawrence Beckerle, Mountaintop Quail Farms</td>
</tr>
<tr>
<td>FNE08-638</td>
<td>Using high tunnels to produce blackberries organically in West Virginia</td>
<td>$6,318</td>
<td>William Jett, Dr. Lewis Jett, West Virginia University</td>
</tr>
<tr>
<td>FNE08-649</td>
<td>Open range woodlands: An untapped resource for small-scale farms</td>
<td>$6,432</td>
<td>Chuck Talbott, 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 blen</td>
<td>$5,991</td>
<td>Pam West, West Farm</td>
</tr>
<tr>
<td>FNE07-599</td>
<td>Medicinal herb seed and seedling rootlet production</td>
<td>$7,115</td>
<td>David Carman</td>
</tr>
<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, Mountain State Chestnuts</td>
</tr>
<tr>
<td>FNE06-593</td>
<td>Producing upscale pork for small-scale farmers: An Appalachian application</td>
<td>$8,254</td>
<td>Chuck Talbott, Black Oak Holler Farm, LLC</td>
</tr>
<tr>
<td>FNE05-554</td>
<td>Horn-faced bees vs. indigenous pollinators in blueberries</td>
<td>$4,304</td>
<td>Robert McConnell, McConnell Berry Farm</td>
</tr>
<tr>
<td>FNE04-522</td>
<td>Improved feasibility of sustainable salad production</td>
<td>$9,199</td>
<td>Barry Landers, Mountain State Innovations, INC</td>
</tr>
<tr>
<td>FNE04-526</td>
<td>Evaluating Marshall Ryegrass</td>
<td>$1,699</td>
<td>Roy Metheney</td>
</tr>
<tr>
<td>FNE04-536</td>
<td>Pastured Rabbits</td>
<td>$5,437</td>
<td>Cindy Welch, Mountain Berry Farms</td>
</tr>
<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>
</tr>
<tr>
<td>FNE04-519</td>
<td>Greenhouse Production of West Virginia ‘63 Tomato Seed</td>
<td>$5,588</td>
<td>Karen Hyde</td>
</tr>
<tr>
<td>Project ID</td>
<td>Title</td>
<td>Funding</td>
<td>Principal Investigator</td>
</tr>
<tr>
<td>------------</td>
<td>----------------------------------------------------------------------</td>
<td>---------</td>
<td>---------------------------------------------</td>
</tr>
<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>
</tr>
<tr>
<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>
</tr>
<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>
</tr>
<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>
</tr>
<tr>
<td>FNE02-440</td>
<td>West Virginia Herb Growers Research Project</td>
<td>$6,879</td>
<td>Scott Snyder</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>
</tr>
<tr>
<td>FNE01-397</td>
<td>Two Approaches to Farm-Grown Nitrogen</td>
<td>$2,707</td>
<td>Susan Truxell Sauter</td>
</tr>
<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>
</tr>
<tr>
<td>FNE00-295</td>
<td>Spuds – Under Organic Mulch vs. in the Soil</td>
<td>$1,265</td>
<td>Sue Cosgrove</td>
</tr>
<tr>
<td>FNE00-326</td>
<td>American chestnut field trial.</td>
<td>$4,335</td>
<td>Larry Boggs</td>
</tr>
<tr>
<td>FNE99-279</td>
<td>Control of Eastern Red Cedar and Multiflora Rose by Nutrient Management and Intensive Grazing</td>
<td>$8,500</td>
<td>Jason Teets</td>
</tr>
<tr>
<td>FNE99-283</td>
<td>Sustainable Production of Specialty Cut Flowers through Improved Soil Structure</td>
<td>$2,154</td>
<td>Pam West</td>
</tr>
<tr>
<td>FNE99-286</td>
<td>Integrated Forest Farming: Medicinal Herb Cultivation, Mushroom Production, and Forest Restoration</td>
<td>$7,995</td>
<td>Frederick D. Hayes</td>
</tr>
<tr>
<td>FNE99-291</td>
<td>Making the Farm Profitable Using Agroforestry</td>
<td>$6,000</td>
<td>Bill Slagle</td>
</tr>
<tr>
<td>FNE99-246</td>
<td>Intensive Grazing System</td>
<td>$2,515</td>
<td>Milford Gibson</td>
</tr>
<tr>
<td>FNE98-225</td>
<td>Year Round Hydroponic Tomato Production</td>
<td>$2,499</td>
<td>Donnie Tenney</td>
</tr>
<tr>
<td>FNE98-226</td>
<td>Expanding Local Production of Cage Cultured Hybrid Bass by Demonstrating an Integrated Approach with Limited Space and Equipment and Farmer Cooperation</td>
<td>$4,996</td>
<td>Frederick D. Hayes</td>
</tr>
<tr>
<td>FNE97-163</td>
<td>Christmas Lights and Deer Scents</td>
<td>$937</td>
<td>Myra Bonhage-Hale</td>
</tr>
</tbody>
</table>
**GRADUATE STUDENT GRANTS**

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

**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>
<tbody>
<tr>
<td>ONE20-377</td>
<td>Management of powdery mildew in greenhouse and high tunnel tomatoes by using UV-C light</td>
<td>$29,171</td>
<td>Dr.Mahfuz Rahman&lt;br&gt;West Virginia University</td>
</tr>
<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&lt;br&gt;West Virginia University</td>
</tr>
<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&lt;br&gt;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&lt;br&gt;Future Generations University</td>
</tr>
<tr>
<td>Project #</td>
<td>Project Title</td>
<td>SARE Support</td>
<td>Project Leaders</td>
</tr>
<tr>
<td>--------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>--------------</td>
<td>------------------------------------------</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>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>West Virginia University</td>
</tr>
<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>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Downstream Strategies</td>
</tr>
<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>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>West Virginia University Extension Service</td>
</tr>
<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>
</tr>
<tr>
<td></td>
<td></td>
<td></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>$14,966</td>
<td>Lauren Kemp</td>
</tr>
<tr>
<td></td>
<td></td>
<td></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>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>West Virginia University</td>
</tr>
<tr>
<td>ONE12-170</td>
<td>Cooperative farm-to-school pilot program</td>
<td>$4,697</td>
<td>Jennifer Poling</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>West Virginia University Extension</td>
</tr>
<tr>
<td>ONE12-168</td>
<td>Empowering small farms to make big decisions: Examining profitability of local markets in West Virginia</td>
<td>$4,697</td>
<td>Sigrid Teets</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>WesMonTy RC&amp;D</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>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>West Virginia University</td>
</tr>
<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 Shenendoah Valley</td>
<td>$9,485</td>
<td>Craig Yohn</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>West Virginia University Extension Service</td>
</tr>
<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>
</tr>
<tr>
<td></td>
<td></td>
<td></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>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>West Virginia University</td>
</tr>
</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</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Greenbrier Valley Economic Development Corp</td>
</tr>
<tr>
<td>CNE08-038</td>
<td>Farmers harness the web to market their products</td>
<td>$10,000</td>
<td>Allen Arnold</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Collaborative for the 21st Century Appalachia</td>
</tr>
<tr>
<td>CNE07-032</td>
<td>Adding value to the sustainable farm</td>
<td>$25,000</td>
<td>Allen Arnold</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Collaborative for the 21st Century Appalachia</td>
</tr>
<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</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>West Virginia University</td>
</tr>
</tbody>
</table>
Total funding from the USDA SARE program to West Virginia
$3,467,293

For further information on projects, contact Deb Heleba, Northeast SARE communications specialist, at 802-651-8335, ext 552 or debra.heleba@uvm.edu. Sustainable Agriculture Research and Education (SARE) is funded by USDA’s National Institute of Food and Agriculture (NIFA).