

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 \$7.6 million to more than 130 initiatives [1].

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.

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

Colorado

Project Highlight: *Impact of Genetics and Grazing Management on Enteric Methane Emissions and Performance in Stocker Steers*

As cows digest grasses and other cellulose-rich plants, microbes in their large first stomach – the rumen – break down the feed, releasing the potent greenhouse gas methane as a natural fermentation byproduct. A low-emission beef cow would use fuel – in this case feed – more efficiently, converting it into muscle readily and minimizing methane emissions over the life of the animal.

Ashley Schilling, a doctoral student with Colorado State University's AgNext program, worked on a Western SARE-funded project that examines how animal genetics and grazing practices effect both emissions and performance. Her project compared two sets of genetically distinct steers – one group sourced locally within Colorado, the other imported from Nebraska – in a production environment. The local steers originate from a similar shortgrass steppe ecosystems as the experiment station, while the Nebraska steers originate from a tall grass prairie ecosystem.

What she found was the local steers emitted more methane but they also had a greater average daily weight gain so their overall emissions intensity was significantly lower than the steers from Nebraska. The results of this study indicate that cattle origin alters CH₄ emissions and animal performance in stocker steers grazing extensive semi-arid rangelands.

For more information on this project, see sare.org/projects, and search for project number GW22-232.

SARE in Colorado

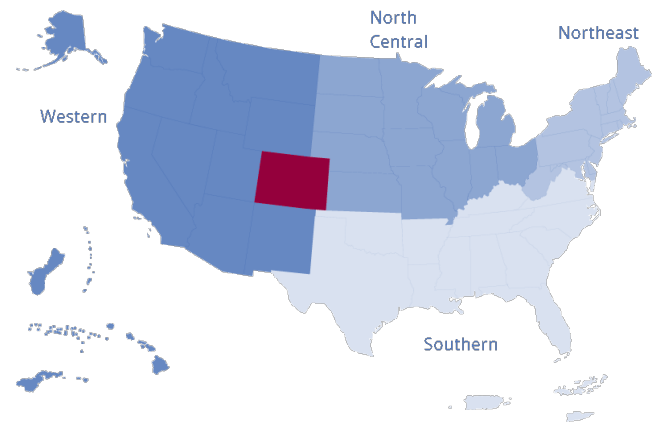
western.sare.org/state-profiles/colorado/

\$7,563,807
in total funding

130 grant projects

(since 1988 [1])

For a complete list of grant projects state by state, go to projects.sare.org/state-fact-sheets/



[1] These totals reflect available data; complete information may not be available for all grant programs prior to 2016.

SARE in Colorado, 2019–2024

This is a summary of recent SARE-funded activities and impacts in the state. To search all SARE projects visit projects.sare.org. For a list of all projects in this state visit projects.sare.org/state-fact-sheets/.

Grants awarded

Total awards: **34 grants**

- 8 Farmer/Rancher
- 5 Research and Education
- 5 Professional Development Program
- 6 On Farm Research/Partnership
- 6 Graduate Student
- 3 PDP State Program [2]
- 1 Local Ed & Demo (formerly RGR)

Total funding: **\$3,179,952**

- \$193,049 Farmer/Rancher
- \$1,745,558 Research and Education
- \$363,287 Professional Development Program
- \$353,485 On Farm Research/Partnership
- \$168,687 Graduate Student
- \$255,886 PDP State Program [2]
- \$100,000 Local Ed & Demo (formerly RGR)

[2] The Professional Development Program (PDP) State Program is a non-competitive award that funds the activities of the state coordinator(s). See more below.

For a complete list of awards by state, visit: projects.sare.org/state-fact-sheets/

Farmer and rancher impacts

SARE grantees have reported the following impacts from their projects:

3,542 farmers participated in a SARE-funded project

891 farmers reported a change in knowledge, awareness, skills or attitude

160 farmers changed a practice



Photo credit: Larimer Conservation District

Learn about local impacts at: western.sare.org/sare-in-your-state/colorado/

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 western.sare.org/state-profiles/colorado/ to learn more.

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