High demand and favorable prices for grain crops such as corn and soybeans has led farmers to plant record acreages of these crops. In Missouri, the expansion of acreage is happening on erosion-prone soils and pastures, where the ground is experiencing 2.5 to 3 tons per acre per year of soil loss and extensive rill erosion. A solution to this erosion problem may lie in incorporating cereal rye as a cover crop into corn/soybean rotations.

With SARE funding, regional Extension staff and local farmers partnered to test and demonstrate the use of cereal rye in a no-till corn/soybean rotation. They found that soil erosion is reduced to 1.8 tons per acre by planting a cereal rye cover crop between the corn and soybeans, and if cereal rye is planted after soybeans, erosion is reduced to 0.8 tons per acre per year.

Over 600 farmers and ag professionals learned of these results through field days and presentations. Forty percent of farmers reached say they will increase cover crop acreage in the next year. And as for farmers already using cover crops, almost half of their acreage now has a cover crop, indicating that they have moved past the small-scale testing stage.

For more information on this project, see [www.sare.org/projects](http://www.sare.org/projects), and search for project number ONC15-002.
SARE Grants in Missouri

SARE has awarded a total of 243 grants in Missouri since 1988.

164 Farmer/Rancher Grants
4 On-Farm Research Grants
28 Research & Education Grants
13 Professional Development Grants
12 Youth Educator Grants
11 Graduate Student Grants
11 Youth Grants
4 On-Farm Research Grants

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.

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 www.northcentralsare.org/missouri to learn more.

Dan Downing
University of Missouri
(573) 882-0085
downingd@missouri.edu

Touria Eaton
Lincoln University
(573) 681-5174
eatont@lincolnu.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).