

Leopold Center for Sustainable Agriculture

2009 New Competitive Grant Projects

Marketing and Food Systems Initiative

A Food Distribution Network for the Northern Iowa Food and Farm Partnership, \$24,525, 1 year, Andrea Geary, Center for Energy and Environmental Education, University of Northern Iowa [M2009-19] NORTHEAST IOWA

Accelerating Latino Leadership in Educational Initiatives for Entrepreneurial and Ecological Farming: Building a Culturally-Responsive Community of Practice, \$38,637 over 2 years, Katherine Richardson Bruna, ISU Multicultural and International Curriculum Studies [M2009-27] MARSHALL COUNTY

An Automated Mechanical Intra-row Weed Removal System for Vegetable Crops, \$54,666 over 2 years, Lie Tang, ISU Agriculture and Biosystems Engineering [M2009-23] STATEWIDE

Building Student Awareness and Involvement in the Farm to ISU Program, \$5,468, 1 year, Nancy Levandowski, ISU Dining Services [M2009-14] STATEWIDE

Cultivating the Agrarian Dream: Aspiring Agri-Entrepreneurs Helping One Another Choose Their Path, \$10,548 over 2 years, Paul Brown, ISU Agriculture and Natural Resources Extension [M2009-24] STATEWIDE

Developing and Implementing a Strategic Plan for Farm-to-School Programs in Northeast Iowa, \$30,000 over 2 years, Brenda Ranum ISU Extension Winneshiek County [M2009-04] NORTHEAST IOWA

Developing Production, Processing and Marketing of Aronia Berries on Small Family Farms in Southeast Iowa, \$25,647 over 2 years, Neric Smith, ISU Extension Jefferson County [M2009-05] SOUTHEAST IOWA

Enhancing Value and Marketing Options for Pawpaw (*Asimina triloba*) by Developing Pulp Separation and Preservation Techniques, \$23,938 over 2 years, Patrick O'Malley, Iowa State University Extension [M2009-20] STATEWIDE

Experiential Educational Engagement with Working Groups and Communities of Practice, \$17,456, 1 year, Betty Wells, ISU Sociology [M2009-18] STATEWIDE

Feasibility Study for the Creation of a Meat Processing Training Program in Iowa through the Community Colleges, \$20,000, 1 year, Gary Sandholm, Webster City Area Development [M2009-28] STATEWIDE

Growing Up Local: A Value Chain Analysis of Local Produce in Iowa, \$59,093 over 2 years, Brian Mennecke, ISU Logistics Operations and Management Information Systems [M2009-11] STATEWIDE

High-Tunnel Resource Manual and Producer Resource Kit Providing the Tools for Profitability, \$38,150 over 2 years, Ray Hansen, Iowa State University Value Added Agriculture Extension [M2009-16] STATEWIDE

Life Cycle Assessment of Confinement and Pasture-based Dairying in Iowa: Impacts and Options for Mitigation, \$4,500, 1 year, Mike Duffy, ISU Economics [M2009-12] STATEWIDE

Pottawattamie County Farm to Fork (Phase III), \$44,900 over 2 years, Shirley Frederiksen and Melvyn Houser, Golden Hills RC&D [M2009-02] POTTAWATTAMIE

Research and Assistance in Support of the Foodsheds in the Upper Midwest Initiative to Measure the Economic Impacts of Increased Local Food Production and Consumption, \$9,000, 1 year, David Swenson, ISU Economics [M2009-07] STATEWIDE

Routing Foods into Southeast Iowa, \$3,595, 1 year, Elizabeth Humble and Detra Dettmann, Pathfinders RC&D [M2009-10] SOUTHEAST IOWA

The Actual Cost of Food Systems on Roadway Infrastructure, \$24,923, 1 year, Omar Smadi, ISU Center for Transportation Research and Education [M2009-15] STATEWIDE

Update of the Iowa Produce Market Calculator Web Site, \$24,837, 1 year, Shashi Nambisan, ISU Center for Transportation Research and Education [M2009-01] STATEWIDE

Ecological Systems Initiative

Assessment of Woody Biomass as a Niche Feedstock for Biobased Products in Iowa, \$73,664 over 2 years, John Tyndall, ISU Natural Resource Ecology and Management [E2009-26] LUCAS COUNTY

Corn Silage Test Plot to Increase Profitability for Dairy Farmers and Reduce Winter Wind & Water Erosion, \$8,000 over 2 years, Dale Thoreson, ISU Extension; and Kelli Boylen, Northeast Iowa Dairy Foundation, Calmar [E2009-02] WINNISHIEK COUNTY

Evaluating Canola (*Brassica napus*) as an Alternative Oilseed Crop and Enhancing Winter Cover in Iowa, \$88,684 over 3 years, Mary Wiedenhoef and Stefans Gailans, ISU Agronomy [E2009-21] GUTHRIE, O'BRIEN, CHEROKEE COUNTIES

Evaluating Denitrifying Bioreactors for Edge-of-Field Nitrogen Management in Iowa's Tile-Drained Landscapes, \$55,000 over 2 years, Alok Bhandari, ISU Agricultural and Biosystems Engineering [E2009-11] STORY, GREEN COUNTIES

Feasibility of Unheated Large Gutter-Connect Greenhouses for Iowa Winter Organic Vegetables, \$13,750 over 2 years (pending), Steve McLaskey, Maharishi University of Management, Fairfield [E2009-24] JEFFERSON COUNTY

Greenhorn Grazing: A Modular Pasture and Animal Management Curriculum for Beginning and Transitioning Graziers, \$54,608 over 3 years, Byron Leu, ISU Extension [E2009-14] SOUTHERN COUNTIES

Land Use Conversion to Perennial Vegetation: Quantifying Soil Water Regime and Aeration and the Implications for Enhancing Soil Resilience to Climate Change, \$82,000 over 3 years (pending), Thomas J. Sauer, USDA National Soil Tilth Laboratory [E2009-18] STORY, BOONE COUNTIES

Optimizing Buffer Strips for Improved Ecosystem Services, \$76,505 over 3 years, Matt O'Neal, ISU Entomology and Lisa Schulte Moore, ISU Natural Resource Ecology and Management [E2009-09] POLK, SUTHERLAND, FLOYD, STORY COUNTIES

Performance of Cropping Systems Designed to Reduce Nitrate Leaching into Shallow Municipal Well Aquifers, \$50,000 over 3 years (pending) Robb DeHaan, Dordt College [E2009-22] SIOUX COUNTY

Quantifying the Effect of Perennial Vegetation on Soil and Water Quality, \$125,436 over 3 years, Thomas Isenhardt, ISU Natural Resource Ecology and Management [E2009-16] HAMILTON, STORY COUNTIES

Site Specific Implementation of Practices that Alter the Spatial/temporal Distribution of Grazing Cattle to Improve Water Quality of Pasture Streams in the Rathbun Lake Watershed, \$60,894 over 2 years, Jim Russell, ISU Animal Science [E2009-08] LUCAS, WAYNE, CLARK COUNTIES

Policy Initiative

Iowa Farmers and Credit, Crop Insurance and Sustainable Agriculture, \$70,000 over 2 years, Chris Peterson, Iowa Farmers Union [P2009-07] STATEWIDE

Shaping a Functional and Sustainable Biofuels Industry through Bridging Industrial Needs with Farmer Production Capabilities, \$24,561, 1 year, Richard M. Cruse, ISU Agronomy [P2009-06] STATEWIDE

Cross-Initiative

Meeting On-farm Energy Needs through Conservation, Efficiency and Renewable Energy, \$80,000 over 2 years, Kamyar Enshayan, Center for Energy and Environmental Education, University of Northern Iowa [XP2009-01] STATEWIDE

On-Line Learning: Using Webinars to Teach about Succession and Enterprise Development Issues, \$25,500, 1 year, Teresa Opheim, Practical Farmers of Iowa; and Mike Duffy, ISU Beginning Farmer Center [XP2009-02] STATEWIDE

For more information about marketing projects, contact Leopold Center Marketing and Food Systems Initiative leader Rich Pirog, (515) 294-1854, rpirog@iastate.edu; for ecology projects, contact Leopold Center Ecological Systems Initiative leader Jeri Neal, (515) 294-5610, wink@iastate.edu; or for policy projects, contact Leopold Center Director Jerry DeWitt, (515) 294-3711, jdewitt@iastate.edu.

A description of these grants is on initiative pages at: www.leopold.iastate.edu

* ALL CAPS after project ID number shows the Iowa region where primary work will be done. 5-14-09

