

<b>Project Title</b>	<b>Project Description</b>	<b>County</b>	<b>Supervisor</b>	<b>Engagement Type</b>
<b>Integrated Sustainable Gardening Education (Douglas)</b>	Coordinate, implement, and evaluate summer 4-H day camp opportunities which integrate educational offerings in water conservation, gardening, nutrition, physical activity, science, health, and community service using the curriculum from the integrated gardening curriculum, and the integration of additional programmatic areas.	Cochise	Darcy Tessman (dtessman@ag.arizona.edu)	Coordinator

<b>Kitchen Garden (Flagstaff)</b>	<p>The purpose of the Flagstaff Seed-to-Table Project is to encourage people to plant their own garden and then teach people how to maintain, harvest and use the produce that they grow. The Bus Stop Garden, located at the Coconino Cooperative Extension Office, has three new key-hole raised beds. (These beds were made from ponderosa pine logs from a forest thinning project.) This garden will be the source of sustainable gardening demonstrations and workshops on topics such as water harvesting, organic pest control, and composting in addition to high elevation gardening strategies such as season extension and cultivar selection for a short growing season. Flagstaff Seed-to-Table will extend the work from the garden to</p>	Coconino	Trish Zilliox (zilliox@email.arizona.edu) and Hattie Braun (hbraun@cals.arizona.edu)	Coordinator
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	<p>hands on and interactive learning opportunities focusing on how participants can use the fruits/vegetables of their labor through food demonstrations, food preservation and nutrition education workshops. This project looks to increase food security through sustainable food production using The Bus Stop Garden as a demonstration home garden. This garden will connect participants with the idea that growing food locally benefits the health, mind, and household budgets for participants and their families. Flagstaff Seed-to-Table cooking workshops will be offered on topics such as: making it fresh-how to make salsas, chutneys and sauces, salads and dressings, pulses and purees, low-cost high nutrition meal planning, high altitude</p>			
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	<p>cooking tips, and high altitude baking adjustments, plus nutritional recipe demonstrations using garden grown produce. The extern will be responsible for researching local resources to offer Flagstaff Seed-to-Table workshops. Due to the timing of this externship, some cultivar selection, garden bed preparation and planting will be done by Coconino Master Gardeners.</p>			
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<p><b>Gila Community Food Bank and Copper Canyon Community Gardens (Globe)</b></p>	<p>Extern will serve in partnership with the Copper Canyon Community Gardens, Gila Community Food Bank and University of Arizona Gila County Cooperative Extension to establish, maintain and promote Globe's first community gardens since WWII. The intended result is for more citizens to be educated about and engaged in sustainable living and giving back to the community. This is achieved by being knowledgeable about organic gardening and water conservation, growing and consuming more fresh grown produce, being outside and exercising in the garden, participating in the local economy through the farmers' market, and helping struggling families by providing more healthy food and resources to</p>	<p>Gila</p>	<p>Chris Jones (ckjones@cals.arizona.edu)</p>	<p>Coordinators</p>
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	the Gila Community Food Bank.			
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<p><b>Water Harvesting, Low Water Use Landscaping and Local Food Production, “Find it/Use It” in Graham County (Safford)</b></p>	<p>Locate, photograph, document, and develop an interactive Google Map displaying examples of low water use landscape, active and passive water harvesting, pollinator gardening, controlled environment food production, and other innovative efforts of sustainable systems in Graham County. Once the site is completed, it would be made available to the public on the Graham County Extension website and other partner sites for citizens of Graham County to easily locate examples and experience different sustainable systems. The externs will leverage funding from existing grants and demonstration projects. The goal is to develop an education tool that will tie multiple demonstrations and projects together.</p>	<p>Graham</p>	<p>Bill Brandau (wbrandau@cals.arizona.edu)</p>	<p>Coordinators</p>
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<b>Sustainable Solutions for Field Crops Pest management in Central Arizona</b>	Conservation and augmentation of natural enemies is a key to integrated pest management (IPM). The potential of biological control to contribute to pest suppression is limited in many agricultural systems by the use of insecticides with broad toxicity to both the pest and their natural enemies. New selective pesticides are developing to manage pests in many agricultural systems. These pesticides need to be assessed to validate their efficacy and selectivity against pests, not natural enemies or pollinators. During the upcoming year I am testing the efficacy of number of new selective pesticides in field crops. The Extern will help develop the experimental plan, implementing some activities related to the suggested research and	Maricopa	Ayman Mostafa (ayman@email.arizona.edu)	Student Worker
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	help in analyzing data and writing results.			
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<p><b>Detecting and quantifying the patterns and occurrence of the six-spined Engraver Beetle that colonize Mediterranean pines in Low Elevations of the Sonoran Desert (Tucson)</b></p>	<p>The use of Aleppo and Eldarica pine trees in landscapes was once thought to be a good solution for a lack of shade and as a way to conserve energy in the mid to low desert areas of Arizona. As a result there was a rash of planting these species beginning in the early to mid 20th century. Now that many of these trees have reached maturity a new insect pest has helped us realize that they may not be sustainable. Their immense size makes these trees difficult to maintain in good health anyway, especially for people and organizations of modest means. Now a novel insect pest that is attracted to the trees that are stressed by poor maintenance is finishing them off and adding a potential new management cost to the budget for owning these</p>	<p>Pima</p>	<p>Peter Warren</p>	<p>Student Worker</p>
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	<p>trees. Studying the life cycle of the insects and their distribution will allow us to determine if there is an economical way to manage the insects and allow these trees to be sustainable. Extern will participate in the fieldwork, reporting, and outreach aspects of the project</p>			
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<b>Tucson Village Farm</b>	<ul style="list-style-type: none"><li>• Harvest produce for consumption.</li><li>• Continue general maintenance and upkeep of Tucson Village Farm, including three growing areas, mushroom shed, chicken coop and aquaponics systems.</li><li>• Participate in educational events and assist with coordination of programming.</li></ul>	Pima	Elizabeth Sparks ( <a href="mailto:esparks@cals.arizona.edu">esparks@cals.arizona.edu</a> )	Coordinators
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<p><b>Community Garden of Tubac</b></p>	<p>The CGOT is a new project with 39 plots available for members and a small community orchard area. In order to support organic and sustainable gardening in this space, a composting station and a worm bin are desired. In other areas, these are minor challenges, but the CGOT is located in a floodplain and all features must be designed in accordance with Santa Cruz County Floodplain regulations.</p> <p>We are looking for an extern who understands composting and vermiculture principles and can work with the County to adapt designs for these features to floodplain regulations as well as to create a plan and coordinate the construction (using volunteer labor) of accepted design proposals. One class training CGOT members</p>	<p>Santa Cruz</p>	<p>Darcy Dixon and Pamela Ridgeway (CGOT)</p>	
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	<p>on the use of the compost area and worm bin will embed the use of these features into the gardening culture.</p>			
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<b>Yavapai Seasonal Harvest</b>	The extern would be working with the Family, Consumer and Health Sciences Agent to learn about food system and nutrition education programs, policies and research and on a day-to-day basis assist the Yavapai County Cooperative Extension SNAP-Ed Program Coordinator to establish gardens at Head Start Locations and other childcare centers and provide education to community members about gardens and nutrition.	Yavapai	Hope Wilson (hopewilson@email.arizona.edu)	Coordinator
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