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# Table of Contents

- Legal Provisions ...................................................................................................... 2
- Mission Statement ........................................................................................................ 2
- Cooperative Extension Impacts .......................................................................................... 3
- UA Resources in Gila County ............................................................................................. 4
- Overview ............................................................................................................................. 5
- 2016 Program Focus Areas ................................................................................................ 6
- Special Highlights ............................................................................................................. 7
- Program Highlights ............................................................................................................. 10
- Grants Awarded to Gila County in 2016 ............................................................................. 19
- Cooperative Extension Budget for the Year 2016 ............................................................... 20
- Chris Jones, Agent Job Description .................................................................................... 21
  - Time Budget ..................................................................................................................... 22
  - Publications .................................................................................................................... 23
  - 2016 Plan of Work ........................................................................................................... 24
- Ashley Hall, Agent Job Description ..................................................................................... 25
  - Time Budget ..................................................................................................................... 26
- Jessica Zamudio, Agent Job Description ............................................................................... 27
  - Time Budget ..................................................................................................................... 28
  - Publications .................................................................................................................... 29
  - 2016 Plan of Work ........................................................................................................... 30
- Juan Arias
  - Time Budget ..................................................................................................................... 31
  - 2016 Plan of Work ........................................................................................................... 32
- Hope Wilson, Area Agent ........................................................................................................ 33
  - Publications .................................................................................................................... 34
  - 2016 Plan of Work ........................................................................................................... 35
- Sights and Scenes of Cooperative Extension at Work ............................................................ 36
- Gila County Demographics ................................................................................................. 43
Legal Provisions for Cooperative Extension

Passage of the Smith-Lever Act by Congress in 1914 officially established the Cooperative Extension Service. The Act provided states with federal funds to carry out Extension work as agreed upon by the respective land-grant colleges and the federal government.

When the Arizona Legislature accepted the provisions of the Smith-Lever Act of 1914, it empowered county governments to appropriate funds to provide additional support to each local county Extension program. It was this cooperative funding from federal, state and county governments that led to the current name, "Cooperative Extension."

In 1921 the State Legislature endorsed the organization of County Farm Bureaus to be the official, county-level sponsors for Extension programs. The enactment of Arizona Senate Bill #179 in 1964 repealed the 1921 legislation. This 1964 legislation established County Extension Boards, appointed by the Board of Supervisors, to be the official sponsors of Extension programs offered in each county.

House Bill #2125, passed in 1974, amended the 1964 legislation to provide greater latitude in the criteria for appointment of County Extension Board members. This legislation also allows counties greater flexibility in the amount of their financial support of County Extension budgets. A further revision in 1986, Senate Bill #1306, addressed the responsibility of each County Board of Supervisors to provide reasonable office space for Cooperative Extension.

In 1991, Congress established the Extension Indian Reservation Program (EIRP) under section 1677 of P.L. 101-624, the Food, Agriculture and Trade Act ("Farm Bill"), which reinstated federal support for extension programs on Indian Reservations. Currently, there are 31 projects on 29 reservations, one of which is on the San Carlos Apache Reservation. Federally Recognized Tribal Extension Program (FRTEP) Extension Agents are employees of the 1862 land grant Cooperative Extension Program, although funding is through the federal Extension branch, National Institute of Food and Agriculture.

The University of Arizona College of Agriculture and Life Sciences
Cooperative Extension Mission Statement

The mission of Arizona Cooperative Extension is to engage people through applied research and education to improve lives, families, communities and the environment in Arizona and beyond.
Cooperative Extension Impacts Gila County

- Is in more than 100 colleges and universities that comprise the nation’s Land-Grant University System
- Is in all 50 states and U.S. Trust Territories
- Has an office in or near most of the nation’s approximately 3,000 counties
- Has support from more than 600,000 volunteers nationwide, impacting 6.5 million young people in 4-H

$910,767 Salaries, programs and equipment
20,064 face-to-face contacts with county residents
1,181 hours of donated time from 435 volunteers

Addressing Critical Issues in Gila County

- Homeless
- Nutrition
- 4-H Youth Development
- Animal Science
- Range Livestock Production
- Youth Leadership
- Home Horticulture & Pests
- Family Community Health
- Developing Sensory Screenings
- American Indian Programs
  - Livestock & Range Management
  - 4-H Youth Development
  - Youth Gardening & Agriculture
- Natural Resources
  - Forest Health/Firewise
  - Range Management/Monitoring
  - Noxious Weeds
  - Climate Education
- Water/Watershed Education

In 1862, Abraham Lincoln signed into law the Morrill Act, which started land grant universities.
The following have provided programs, consultations, mediations, or other forms of support on one or more occasions.

Dr. Janick Artiola, Water Research Professor, Water Resources Research Center
Robert Armstrong, Support Systems Analyst, Sr., Arizona Cooperative Extension
Chris Bernau, Rangeland Research Specialist, V Bar V Ranch
Natalie Brassill, Water Quality Instructional Specialist, Maricopa Agriculture Center
Hattie Braun, Plant Pathologist, Coconino County

Dr. Julie Brugger, Assistant Staff Scientist, Climate Assessment for the Southwest, Institute of the Environment, U of A
Kim Cole, Seasonal Range Technician, US Forest Service
Dr. Michael Crimmins, Climate Specialist, Department of Soil, Water, & Environmental Science
Laura Crumbacher, Curatorial Specialist, U of A Herbarium
Dr. Peder Cuneo, Extension Veterinarian, AZ Veterinary Diagnostic Lab
Dr. Del Despain, Research Specialist, Sr., School of Natural Resources and the Environment
Justin Eddinger, Pathways Intern, US Forest Service
Jacob Draper, Seasonal Range Technician, US Forest Service
Kelly Dunn, Pathways Intern, US Forest Service

Dr. Peter Ellsworth, Integrated Pest Management Extension Specialist, AZ Pest Management Center
Dr. Dan Faulkner, Beef Extension Specialist, Department of Animal Sciences
Dr. Ed Franklin, Associate Professor, Department of Agricultural Education
Rick Gibson, Extension Agent, ANR, Pinal and Gila Counties Extension
Nick Gilham, Pathways Intern, US Forest Service
Mike Hauser, Extension Agent, 4-H Youth Development, Apache County
Alyson Head, Arizona Cooperative Rangeland Monitoring Program Research Specialist
Dr. Linda Houtkooper, Associate Director, Programs, Arizona Cooperative Extension
Dr. Larry Howery, Range Management Specialist, School of Natural Resources and the Environment
Ashley Hullinger, Research Coordinator, Water Resources Research Center
Kruze Kinder, Seasonal Range Technician, US Forest Service

Dr. Cathy Martinez, Associate Director, Arizona 4-H Youth Development Program, Pinal County
Dr. Mitch McClaran, Professor, School of Natural Resources and the Environment
Andy Medina, Support Systems Analyst, Sr., Arizona Cooperative Extension
Dr. Kelly Mott-Lacroix, Senior Research Analyst, Water Resources Research Center
Susan Pater, Extension Agent, 4-H Youth Development, Cochise County
Dr. Steve Poe, Professor, Agriculture & Biosystems Engineering

Dr. Monica Ramirez-Adreotta, Assistant Professor, School of Soil, Water & Environment Science
Dr. George Ruyle, Range Management Specialist, School of Natural Resources and the Environment

Dr. Dave Schafer, Resident Director, V Bar V Ranch
Dr. Kerry Schwartz, Program Director, Water Resources Research Center
Sean Sederstrom, Program Coordinator, Water Resources Research Center

Dr. Jeff Silvertooth, Associate Dean for Economic Development & Director of AZ Cooperative Extension
Trent Teegerstrom, Associate Specialist, Production Economics, Crop Budget Development & Risk Management Education, FRTEP Project Director

Dr. Doug Tolleson, Rangeland Management Specialist, V Bar V Ranch
Peter Warren, Entomologist Horticulture Agent, Pima County Cooperative Extension
Dr. Grant Weinkam, Research Analyst, Water Resources Research Center
Amanda Zamudio, Associate Agent, 4-H Youth Development, Santa Cruz County
Welcome to the 2016 edition of our Gila County Cooperative Extension Annual Report! We hope that you find within its covers an opportunity to learn more about our work and our mission.

If your interests trend toward home horticulture or the environment, you might find interesting the summary that Chris Jones has submitted for our report. As a long term faculty member, he is well known throughout the county.

Jessica Zamudio is our 4-H Youth Development agent. It is her opportunity to work directly with the adult leaders and other stakeholders who impact our youth throughout the county. You may want to check out some of her exciting projects this year.

Kent Apostol, our forest health agent, resigned from his position earlier in the year. While there is no report on forest health projects in this edition, we are excited to announce that the position has been cleared for hiring during 2017.

We were pleased to welcome this past year a new range and livestock agent, Ashley Hall. Stepping resolutely into the position, she has been quick to pick up the reins of the programs and move them forward. Please enjoy her selections.

Also cleared for a search process in 2017 is the long expected family, consumer, and health sciences agent position. This faculty level position will create and help develop a wide range of family related programs active throughout the county.

Juan Arias works out of our San Carlos office and serves the San Carlos Indian Reservation full time. His summary is also enclosed in this report. His work addresses vital issues identified within that community.

It goes without saying that all of the faculty greatly appreciate our many staff members who support and help bring our programs to you. They work tirelessly for all who live within the boundaries of our great county. We thank them for all that they do.

As Extension faculty and staff, it is our honor to serve the people of Gila County by bringing research-based educational programs to bear on local issues and local problems. It is our mission to improve lives, families, communities, and the environment. Please join us as we share the outcomes and impacts of our work.
2016 Program Focus Areas

- Home Horticulture and Master Gardener Program
- Environment and Sustainability Education
- Reading the Range
- Child Care Providers Development Training
- Livestock Drought Management Workshop
- Developing and Using Cooperative Monitoring for Adaptive Management & NEPA
- Ranch Financial Restocking Workshop
- AZ STEM Fest
- Project WET Water Fest
- Resources Education for Youth
- Overnight Camping Experiences
- Youth Development
- Physical Education
- Teen Leadership
- Family Consumer Health Sciences
- Ag. Awareness/Literacy
- Life Skills Development
- School Enrichment
- Financial Education
- Career Readiness

Watershed steward students discuss the water quality of the outfall well below the water treatment plant with ADEQ resource specialists. *Photo by Chris Jones.*

Nalwoodi Denzhone Community (NDC) Life *Photo by Juan Arias*

Book Magic classes through FCHS program at the local libraries. *Photo by Renette Joshua*
David Cook Awarded Extensionist of the Year

In recognition of his commitment to citizens of his community and state, and his dedication to Arizona Cooperative Extension, the College of Agriculture and Life Sciences is pleased to present the Extensionist of the Year Award to David Cook.

David Cook was born in Ponca City, Oklahoma in 1968 to a farming and ranching family, and grew up actively involved in 4-H and FFA. He moved to Arizona in 1985 and graduated from Miami High School the following year.

David worked for several years in the electrical apparatus field, helping farmers with irrigation pumps and controls, before moving back to Globe to work for the Department of Corrections. After twelve years, receiving numerous achievements within the department, David retired with the rank of Sergeant to pursue his own business of ranching. In 2000, David and his wife Diana began DC Cattle Co, LLC.

David attended several community colleges and is a proud graduate of Arizona State University's Certified Public Manager Program. In addition to serving on the Executive Committee and Board of Directors of the Arizona Cattle Growers' Association, David served as Federal Lands Chairman for both the ACGA and the National Cattlemen's Beef Association. He is a past Young Cattlemen's Conference Chairman, a board member of the Globe Miami Chamber of Commerce, and the Southern Gila County Economic Development Corporation. Additionally, David is past President of the Gila County Cattle Growers' Association, the Gila County Sheriffs Posse, and the Cobre Valley Republic Club. David currently holds positions on the Gila County Cattle Growers' Board of Directors and the University of Arizona Cooperative Extension Advisory Board.

David has received multiple awards, including the 2010 Globe Miami Chamber of Commerce Rancher of the Year, the Arizona State Mine Inspector Safety Award in 2012 and 2013, and the 2014 University of Arizona Cooperative Extension Centennial Award for Outstanding Service and Dedication.

David and Diana have two children, David Jr. and Maria, who currently attend Miami High School and are enrolled in several sporting and school activities. The entire family works together on their Globe ranch.
After 17 years of dedicated service to University of Arizona Cooperative Extension, San Carlos Apache Nation and Gila County, Dr. Sabrina Tuttle, has officially retired. During her tenure as a Cooperative Extension Associate Agent for the San Carlos Nation and an Assistant Professor in the Department of Agricultural Education, Dr. Tuttle wrote numerous journal articles and extension factsheets aimed at the improvement of educational activities to the local communities and the betterment of indigenous and underserved populations around the world. She was diligent in improving the communities she served and improved the lives of all who had the privilege of interacting with. Congratulations on your well-deserved retirement!

In August, we welcomed our new Animal Science, Agriculture and Natural Resources Agent. Ashley is from Little Rock, Arkansas and moved to Arizona to attend the University of Arizona (UA). She received her B.S. in Rangeland Ecology and Management with a minor in Geographic Information Systems from UA in 2009. While completing her degree she assisted Dr. McClaran at the Santa Rita Experimental Range collecting long term monitoring data. She received her M.S. in Rangeland Ecology and Management from UA in 2011. Her thesis focused on researching the spatial distribution of Creosote seed densities and nurse plant-protégé interactions between two species of Bursage and Creosote, as well as created a vegetation map of San Cristobal Valley and Mohawk Mountains near Dateland, AZ. After finishing her M.S., Ashley began working for UA Cooperative Extension as a team member of the Cooperative Rangeland Monitoring Program assisting the Bureau of Land Management Yuma Field Office in establishing a vegetation monitoring program. Ashley has also worked for U.S. Fish and Wildlife Service as the Arizona Invasive Species Program Coordinator and taught “Identification of Arizona Native Plants” as adjunct faculty at Arizona Western College.

Ashley Hall’s 2016 Plan of Work Focus Areas

- Develop and distribute Needs Assessment Survey for livestock, agriculture and natural resource producers in Gila and Pinal County.
- Develop animal science and natural resource programming for Gila County based on 2016 Needs Assessment Survey results.
- Continue monitoring through Reading the Range Program.
- Perform field days with ranchers and U.S. Forest Service personnel to establish new key areas on allotments not currently participating in Reading the Range.
- Serve on Board of Directors for Arizona Section, Society for Range Management.
- Attend workshops, conferences, and field tours to increase subject matter expertise and better serve clientele and producers throughout Gila and Pinal Counties.
Renee Carstens
Family Consumer Health Specialist - Globe

Program Coordinator Senior - WELCOME

Renee has a Master's degree in Education and over 26 years of experience as a teacher and youth development specialist. She also have several years of experience as managing grants, together with supervision of multiple staff, program implementation, and preparing progress and financial reports for funders. The FCHS Program Coordinator Senior position is responsible for the day-to-day coordination and oversight of Instructional Specialist, set up and delivery of Triple P program, implementation of events to promote parent education outreach and awareness, data collection and compiling program reports. In addition, this position provides educational workshops covering family, as well as early literacy to help prepare young learners for school.

Renette Carstens
Family Consumer Health Specialist - Globe

Instructional Specialist Senior - WELCOME

Renette has a Bachelor's degree with an emphasis in Psychology and Education. She has over 5 years working in K-12 and early childhood education settings. This position is responsible for delivering Triple P curriculum instruction in locations in Southern Gila County and some components of parenting outreach and education workshops, events and activities. In addition, this position is responsible for some outreach and data collection.

Chrisann Dawson
Family Consumer Health Specialist - Payson

Instructional Specialist Senior - WELCOME

Chrisann has a Bachelor's degree in Education. She has over 3 years working in K-12 education. This position is responsible for delivering Triple P curriculum instruction in locations in Northern Gila County and some components of parenting outreach and education workshops, events and activities. In addition, this position is responsible for some outreach and data collection.

FCHS teaching Literacy Workshops at Globe and Miami Libraries
Photos by Renee Carstens
Master Gardener
2016 Watershed Highlights

Master Gardener
Agent Jones offered two 16-week training courses: a summer evening class to support the local Food Bank to establish a community garden in Globe (12 students), and in Payson in the fall (31 enrolled, 27 graduates). Agent Jones taught several of the classes, including botany, composting, soil, water & plant relationships, and tree care. Extension educators Rick Gibson, Hattie Braun, Steve Poe, Mike Crimmins and Peter Warren also taught. Unfortunately, the Globe Food Bank project did not materialize. However, 14 of the Payson students are interested in continuing as Master Gardeners. They have completed the Designated Campus Colleague procedure and are actively planning activities are 2017. 39 students increased their knowledge, critical thinking and skills. For the Payson class, students regarded their garden knowledge at an average of 5.1 (on a scale from 1 to 10). After the class, the average self-rated knowledge was 7.6.

Spring Gardening Workshop
Part-time (.2FTE) volunteer coordinator, Forrest Hammer, assisted with programming and volunteer management until he resigned in June. Forrest Hammer led and organized 14 Master Gardeners to host the Spring gardening workshop at Matlock Gas on March 13 in Globe (85 participants). Local experts presented on vermiculture, canning, layer hens, irrigation and the community garden. He assisted me in providing significant educational experiences to at least 630 clients through workshops, classes and guest speaker presentations open to the public.

Globe-Miami Farmers Market
Agent Jones supported the Globe-Miami Farmers' Market now in its fifth consecutive year. He supervised UA Green Fund extern, junior Alexis Salter from San Carlos, who served as the Assistant to the Farmers' Market Manager this summer. Alexis performed social media promotion, market activities (8 market days) and clientele evaluation. The Globe-Miami Farmers' Market was created in 2011 with Jones' guidance, and continues to make its mark each summer. This year was attended by 150-250 participants each Saturday and an average of 15 vendors. Vendor receipts were near $25,000. Evaluations indicated the “overall value of the local market” was 8 or higher (on a scale from 1(low)-10(high), and 30% indicated that their family's intake of fresh fruits and vegetables has increased or stayed the same (70%). The market manager, Holly Brantley, said she was pleased with Alexis’ contribution.

Payson Community Garden
Mr. Jones assisted the Payson Community Garden by helping to design a free, open-to-the-public, Saturday morning training program along with Roger Kraimeyer, Anita Baker and Glen McCombs for the garden participants. Offered in the spring, Chris taught classes on planning an intensive garden and garden diseases to 70 participants.

Demonstration Garden
Agent Jones advised eight students from Taliesin West Architecture School to design a Demonstration Garden along Highway 60 at Freeport McMoran Mining Company. He was consulted on pollinator plants, native trees, shrubs and annuals, noise abatement, water features, rainwater harvesting and community educational needs and is still active in the installation of the garden.
Master Watershed Stewardship
Agent Jones offered a 16-week Master Watershed Stewardship (MWS) course at Bullion Plaza Museum in the spring. Nineteen students enrolled and ten completed the course, including six employees of Freeport-McMoran Inc (FMI) mining company. Extension educators that presented included Janick Artiola, Kelly Mott-LaCroix, Natalie Brassill and Mike Crimmins. This MWS class was the first held in Southern Gila County several years and it was well received. Through the class, we learned of FMI's work to repair mining legacy groundwater contamination at the Pinal Water Treatment facility, and landscape restoration of the Old Dominion Mine park.

WRRC
Agent Jones partnered with the UA Water Resources Research Center (WRRC) through a Water Education Grant. WRRC colleagues and Jones hosted an interactive "movie making" exhibition at STEMFest (4/23, approx. 60 youth). WRRC also presented a Shared History Timeline poster as a product to raise water education (10/19, approx. 20 adults). He facilitated meetings with water managers with Dr Grant Weinkam to conduct a needs assessment and recommendations for the Globe-Miami area. The WRRC partnership has had a positive effect of building relationships with the FMI and the city water programs in Globe and Miami. They see water conservation as crucial for the community and UA Extension a resource and partner. The Shared History Timeline poster is now on permanent display at the Bullion Plaza Museum.

Water Festival
Chris Jones also partnered with UA Kerry Schwartz and her staff to conduct the Southern Arizona Project WET Water Festival at Bullion Plaza on March 24. Forty community volunteers assisted and taught at this one-day event with nearly 400 local 4th grade students. I taught around 100 youth about watersheds. Now in its third year, the WaterFest has now been secured as an annual event led by the Gila County School Superintendent. It brings together a broad coalition, including the local schools and Freeport-McMoran Copper Company as a sponsor, led by both campus and county Extension educators.

FFA Forestry
Agent Jones assisted Kent Apostol, UA Forest Health Area Agent, to conduct the FFA Forest Career Development Activity (3/4, approx 120 students), and a forest health exhibition at the Payson Wildlife Fair (5/14, approx 70 adults and youth). Although Dr Apostol resigned, Mr Jones went on to partner with the Arizona Department of Forest & Management to present at the WUI/Firewise Summit (Phoenix, April 1-2, 80 adults), and complete a revision and printing of the Living with Wildfire publication. He also reviewed an Extension bulletin on biomass utilization.
Rangeland monitoring through the Reading the Range Program began in 2001 at the request of stakeholders to provide vegetation data to ranchers and United States Forest Service (USFS) range management staff of the Tonto National Forest. This program is a critical need because it provides information, which quantifies rangeland health and sustainability of livestock grazing in Gila County. After Dr. Sprinkle’s retirement in 2015, a group of local citizens worked together to collect what data they could until his position was filled. Ashley Hall was hired in August 2016 as the Area Assistant Agent to continue and expand Reading the Range. She immediately began planning the 2016 monitoring season and monitoring efforts began in September.

In 2016, Reading the Range completed through the use USFS personnel (3 seasonal employees, 4 pathways students, and range management staff) and UA Cooperative Extension. Tonto Natural Resource Conservation District and USFS also provided funding to hire two additional independent contractors to assist with data collection.

As part of Reading the Range program monitoring was completed at 132 key areas (monitoring sites) across 28 USFS allotments; including 12 new key areas on four allotments which had not previously participated in the program. Rancher participation during monitoring was approximately 95%. Ashley Hall also assisted with monitoring on the San Carlos Apache Reservation.

Rangeland monitoring data collected in 2015 and 2016 will be summarized and distributed to Reading the Range participants and USFS range management staff by summer 2017. The overall goal of this program is to document changes in vegetation and gather data to assist in management decisions. Ashley Hall will provide ranchers with information on ground cover, species composition, frequency, vegetation production. She will also include a summary letter and graphs to help ranchers interpret data. USFS will also use monitoring data during an allotments National Environmental Policy Act (NEPA) grazing permit renewal process. As Reading the Range continues, data can be used to aid USFS personnel and ranchers in adjusting land management to achieve goals set for each allotment.
Journey of Opportunities for Leaders of Tomorrow (JOLT)

J.O.L.T. is an Arizona Teen Leadership Camp, designed by teens for teens. The camp is a week-long at Camp Shadow Pines in Heber, Arizona. The camp is designed for all teens from various organizations, backgrounds, ages 14 to 18 or entering high school. There were six members in 2016 that represented Gila County 4-H. The participants enjoyed activities that build trust, develop leadership, and improve communication skills. Teens gathered from all over Arizona to develop open-minded and positive attitudes. The Southern Gila County 4-H Leaders’ Council encourages youth to become involved in any type of leadership activity and sponsored five members to go to camp for free.

Northern and Southern Gila County 4-H Banquets

4-H would not be the same without records. They are an important part of completing each project. They help youth set goals, keep track of attendance at meetings, record demonstrations and talks and a whole lot more.

The Gila County 4-H leaders got together to grade the record books turned in by members. In Northern Gila County 4-H, a total of 40 record books were turned in with a 91% completion rate. In Southern Gila County 4-H, a total of 67 record books were turned in with a 94% completion rate.

The 4-H members were then presented with their completion pins at the banquets. Bob’s Western Wear Store donated 15 gift certificates to the 4-H members in Northern Gila County with the top record book.
4-H members representing Gila County at the Arizona National Livestock Show and the Western National Roundup

The Arizona National Livestock Show hosts several livestock events that gather 4-H and FFA members across the nation. These events take place in Phoenix, Arizona over the winter break from December 28 through January 1, 2017. This year, we had several Gila County 4-H members compete in the Junior Livestock Judging and Skillathon Event.

In the livestock judging contest, contestants test their skills by carefully analyzing livestock and measuring them against a standard that is commonly accepted as being ideal. This year we had several Gila County 4-H members that represented us at these events.

The junior livestock judging team consisted of Alexis Springer, Jace O’Connor, Kinsey Speer and Quentin Speer. They did very well and the team placed 9th overall. We also had two senior teams that did a great job. The senior contestants were Archie Speer, Arielle O’Connor, Bailey Sexton, Taylor Barnes, David Monsees and Devon Springer.

Taylor Barnes was also selected to be a member of the Arizona 4-H Livestock Judging Team at the Western National Roundup in Denver, Colorado. Taylor and three other team members from Arizona placed 17th as a team overall. There were 118 4-H senior contestants and 28 teams from across the nation. We hope to have more Gila County 4-H members represent Arizona 4-H in the future.

We also had several Gila County 4-H members represent us in the skillathon event. This was the first year for Gila County to compete in this event. This event provided the opportunity for youth to apply their knowledge to a variety of topics related to the production and management of beef cattle, swine, sheep and meat goats. Participants in this event tested their knowledge on the following topics: livestock evaluation, wool judging, breeds of livestock, feedstuffs used in livestock diets, equipment used in raising and showing livestock, meat retail cut identification, quality assurance, genetic animal performance and breeding. There were two junior and two senior teams that represented Gila County.

The first junior team placed 3rd overall and consisted of Jace O’Connor, Kinsey Speer, Makena Dzera and Quentin Speer. The second junior team placed 10th overall and consisted of Alexis Springer, Elias Lyman, Jasmine Burnett and Tammy Stallings. Junior exhibitors that placed in the top 15 were Jace O’Connor, Makena Dzera, Kinsey Speer, Quentin Speer and Elias Lyman. All juniors did an outstanding job! The first senior team placed 5th overall and consisted of Archie Speer, Arielle O’Connor and Isaac Webb. Arielle O’Connor placed 16th individual and Archie Speer placed 17th individual. The second team consisted of brothers David Monsees and Devon Springer. This contest was very tough and competitive. All seniors did an awesome job!
Northern Gila County Fair

We had a successful fair! There were numerous fun activities for the kids and the community including open shows, kids day, livestock shows, round robin, horse show, livestock judging, dog agility show, dairy goat show and the livestock auction. The dog agility show was new this year and we hope to see it grow next year. There were a total of 58 4-H and FFA exhibitors.

The livestock auction ran smoothly. There was a total of 58 lots sold in the auction. Grant Boice came to Payson to help run and clerk the auction. The auctioneer was Daren Shumway and he did an awesome job!

Southern Gila County Fair

The Gila County Fair had numerous activities for the 4-H and FFA youth. The fair kicked off with the 4-H and FFA exhibits and then moved into the livestock check-in. Then, we moved into the livestock shows and round robin on Thursday and Friday. We ended Friday night with Old Fashion Fair Night. The 4-H raised $4,554 and the money was donated to the Self and Attaway families. One Saturday, many 4-H members competed in the first annual Junior Cook-Off. Also on Saturday, we had 36 kids compete in the livestock judging contest. There were a total of 73 4-H and FFA exhibitors and numerous entries.

The Gila County Fair Livestock Auction ran smoothly. There were a total of 68 lots sold in the auction. Grant Boice came to Globe to help run and clerk the auction. The auctioneer was Rick Lehman from the Marana Stockyards and has been with Gila County Fair for years. Rick commented that this was the smoothest auction for the Gila County Fair.

Donation to Gila County 4-H Program

The Gila County 4-H Program received a significant donation in 2016. A man by the name of Rick Fields donated a little over $55,000 to the Gila County 4-H Program. Rick lived in Young, Arizona and enjoyed working with animals. Before he passed away, he wanted to make sure that his donation went towards youth and animals. A certificate of appreciation was presented in his honor.
Trainings

The San Carlos Extension Office was able to provide educational training for the Grow It, Try It, Like It, curriculum to childhood educators. The training covered basic early childhood nutrition, MyPlate Guidelines and the importance of using the Grow It, Try It, Like It, curriculum to introduce children to fruits and vegetables. Additionally, Pinal and Graham county staff participated in a collaborative training to present all First Things First programs provided through the University of Arizona Cooperative Extension. Educators learned about dental hygiene resources, agriculture nutrition, vision, hearing and developmental information. A total of 38 early childhood providers attended during the collaborative training.

The University of Arizona Cooperative Extension in collaboration with United Way of Tucson Southern Arizona, hosted five Empower Plus trainings. The trainings focused on active play, a physical activity for children in educational settings which included resources to cut down on media and encourage reading. The providers and cooks were advised to work with their director to provide milk and always have water available for children at their locations. In correlation with nutrition, educators learned about ten tips for setting good examples. Some examples were family style meals in the classroom, eating regular healthy food, limiting screen time, encouraging physical activity, along with rewarding with attention (not food), and to be a good healthy role model for the children. Also, early child educators learned how to develop an active calendar, learned the importance of healthy meal plans, and developed an action plan to accomplish personal goals.

Diane Craft, a faculty professor with the Physical Education Department at the University of New York and author of *Active Play! Fun Physical Activities for Young Children*, provided another training for educators and parents this year. Diane Craft who has worked over a decade to improve physical fitness in early childhood, provided another training specifically for parents in the San Carlos Apache Tribe Reservation. In this year’s training, Diane Craft focused on giving the parents the opportunity to learn simple core activities that will help children be active using home everyday products. Diane Craft, “Young Children who increase their physical activity levels show a decrease in body fat.” During the training, Diane Craft demonstrated backyard kicking, clean up the floor, hoop target and swat the fly activity. All the events showed a focus on balance, accuracy, strength, active play and most importantly, it is fun.

The First Things First Nutrition, Obesity Physical Activity grant implementation continued with its second year of providing educational sessions for children 0-5. At least ten locations continued to participate in enrichment actives themed around a garden. Also, two more classrooms of Rice Elementary preschool children were included this year. The awarded grant contributed to the hiring of an Instructional Aide that will provide more indoor activities and opportunities to reach community members.
Youth Gardening/ Agriculture and Natural Resources

The San Carlos Extension Office continued providing educational sessions in the agricultural sector at San Carlos Rehabilitation and Detention Center, Mt Turnbull Elementary, St Charles and the Extension Office for 4H. Students and youth learned about following topics: plant needs, soils, composting, horticulture, garden preparation, planting, transplanting, irrigation systems design and construction, harvesting controlling weeds, pests, and winter gardening plant selection. Additionally, San Carlos High School students and participants learned natural resource ecology, and conducted research to determine the growth rate and physiology of different range of grasses. San Carlos Extension reached 260 youth and 28 adults during agriculture education sessions.

The San Carlos Extension Office continued to provide range monitoring consulting and assistance to cattle associations. Also, the San Carlos Extension participated in the Natural Youth Practicum hosted by the San Carlos Apache Tribe. The youth learned about range management and horticulture during their natural resource activity. Additionally, youth explored natural resources careers in range, forestry, agriculture, animal science and environmental. An estimate of 33 children were involved in the Natural Youth Practicum summer.

The San Carlos Extension Office provided several gardening sessions to help established a community garden at the Nalwoodi Denzhone Community (NDC) life center. Youth from the aftercare program Detention Center helped plant and harvest several crops that included watermelon, Apache giant squash, cantaloupe, tomatoes, bell peppers, jalapenos, corn, zucchini, spaghetti squash, crookneck squash and Apache sugar cane. The life center Nalwoodi Denzhone Community donated the crops to participants and community members of San Carlos Apache Tribe. Also, the educational sessions included a simple irrigation system, soil types, type of plants, pests, harvesting, indoor planting harvest and garden maintenance. The San Carlos Extension reached 45 aftercare youth, and 16 adults during educational sessions.

The San Carlos Apache Tribe Detention Center youth participated in the Gila County Fair and entered crops from their garden for the agriculture exhibit. The garden vegetables won first place for tomatoes, peppers, bell peppers and jalapenos in the Gila County Fair. Also, watermelon from the garden won best show purple ribbon for the display. Partnership with the BiyaaGozhoo Education Center, allowed students to show the community the results of their hard work and be proud of their results. It was a great opportunity to work with teachers and officers to make this experience possible.
San Carlos, Agriculture, & Natural Resources
This past year 4-H youth worked on a garden to learn about summer plants and grow food. The garden produced several crops and donated to the Elder Adult Center. Youth and 4-H leader took squash, tomatoes, sugar cane and peppers. Youth 4-H leader, “it’s great to see the elder smile when they receive food it is a great experience for the youth.”

BiyaaGozhoo Education Center, entered fruits and vegetables into the Gila County Fair Exhibit and won. Teacher, " it was great to take the students and let them see their hard work be recognized." Detention Center garden won first place on all exhibits and purple ribbon for best show at Gila County show.

Nalwoodi Denzhone Community (NDC) life center and the University of Arizona Cooperative Extension have worked together to provide enrichment activities to help former Detention Center youth stay out of trouble. Nalwoodi Denzhone Community leader states, “It is great to have something for the youth to do after school, it helps them develop character and changes their perspective in life.”

A parent who participated in Diane Craft's Active Play training expressed, " I was glad to take part in this training. It was a great experience and hope that we receive more training that encourages parents like me to be active in the future." Parents received a free Active Play curriculum to take home and practice what they learned in training.

First Things First Program
The continuation of the First Things First Nutrition/Obesity/Physical Activity Grant continued to reach out to the community of San Carlos Apache Tribe. The University of Arizona Cooperative Extension provided educational sessions to Apache Child Care, Head Start, Child Readiness, Social Services, Youth Home, Tulapai Camp and Rice Elementary locations. Children from the participating locations learned in the educational sessions basic garden skills for early childhood and introduction to fruits and vegetables. Fruits and vegetables presented to children were crookneck squash, spinach, cantaloupe, sweet potato, strawberry, peach, corn, onions, radish, and watermelon. Additionally, the University of Arizona Cooperative Extension hired an Instructional Aide to reach more children by providing indoor enrichment activities that encourage healthy eating and physical activity.

This year the University of Arizona Cooperative Extension Gila County San Carlos, collaborated with Pinal County Extension to provide vision, hearing and developmental screenings. The locations reached were Apache Child Care, Child Readiness, Social Services and children during community events. Also, the San Carlos Extension Office started working with Graham County Extension to promote oral and dental health education to the community of the San Carlos Apache Tribe. Children at the centers learned about the importance of dental hygiene and participated in varnish services provided through the First Smile program. Connections with child care centers, Rice Elementary, social services, child readiness, Head Start and the library were established to ensure the success of the First Smile Program.
### 2016 Grants and Donations Awarded or Continuing for Gila County

<table>
<thead>
<tr>
<th>Funder</th>
<th>Amount</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tractor Supply Company</td>
<td>1,106</td>
<td>Southern &amp; Northern Gila County Clover Campaign</td>
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<tr>
<td>Valley of the Sun Freeport United Way</td>
<td>14,752</td>
<td>Southern Gila County 4-H</td>
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<tr>
<td>Truist SW Gas United Way</td>
<td>2,628</td>
<td>Southern Gila County 4-H</td>
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<tr>
<td>United Fund of Globe-Miami</td>
<td>8,330</td>
<td>Southern Gila County 4-H</td>
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<tr>
<td>Shirley Caris Foundation</td>
<td>10,000</td>
<td>Northern Gila County 4-H Community Club</td>
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<tr>
<td>Shirley Caris Foundation</td>
<td>15,000</td>
<td>Ag Awareness Program</td>
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<tr>
<td>Proceeds from Old Fashion Fair Night at Gila County Fair</td>
<td>5,913</td>
<td>Southern Gila County 4-H</td>
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<tr>
<td>Charley, Katherine, Rebekah, Revocable Living Trust</td>
<td>55,000</td>
<td>Gila County 4-H</td>
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<td>Senator Hardt</td>
<td>529</td>
<td>Youth development</td>
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<td>Tonto Natural Resource Conservation District</td>
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<td>Reading the Range</td>
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<td>Tonto National Forest</td>
<td>66,585</td>
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<td>San Carlos Developmental Sensory</td>
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<td>Early Sensory Screening</td>
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<td>First Things First</td>
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<td>San Carlos Nutrition, Obesity, &amp; Physical Activity Grant, Sub-Contractor to United Way of Tucson in The San Carlos region</td>
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<tr>
<td>FRTEP</td>
<td>81,400</td>
<td>San Carlos</td>
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*Continued on next page*
## 2016 Grants and Donations Awarded or Continuing for Gila County

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<th>Funder</th>
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<th>Purpose</th>
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<td>First Things First Positive Parenting</td>
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<td>Parenting Education in Gila County From 0—5 years</td>
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<td>SPC-CO-Fire</td>
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<td>Fire Education</td>
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<td>Bureau of Reclamation/ Water Resources Research Center</td>
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<td>Raising water awareness in the Globe - Miami area</td>
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<tr>
<td>Freeport-McMoran International</td>
<td>26,000</td>
<td>Raising water awareness in the Globe - Miami area</td>
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**TOTAL**                                          | **467,321** |
### Funding for Gila County 2016

**Salaries/Wages:** $458,236  
**Operations/Programs:** $452,531  
**Total:** $910,767

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**Gila County Expenditure Budget for the year 2016**

<table>
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<tr>
<th></th>
<th>Salaries/Wages/ERE</th>
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<tr>
<td>State &amp; Federal¹</td>
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<tr>
<td>Gila County</td>
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<tr>
<td>Gila County Grants²</td>
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<tr>
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<td>US Department of Agriculture³</td>
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<td><strong>Totals</strong></td>
<td><strong>458,236</strong></td>
<td><strong>452,531</strong></td>
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These values do not represent office space and utilities provided by Gila County and the San Carlos Apache Tribe.

¹ State funds from state appropriations to University of Arizona College of Agriculture.

Federal funds from US Department of Agriculture for Cooperative Extension programs.

² Grants are listed on the proceeding pages.

³ USDA funds provided specifically to support Extension Agent for the San Carlos Apache Reservation.
A primary responsibility of this position is to provide leadership in: 1) developing, implementing and evaluating educational programs aimed at improving the sustainability of natural resources and rural communities, 2) increasing understanding and involvement in natural resources, including forest and watershed issues, and horticulture in the rural community, and 3) increasing the effectiveness of clientele, groups, and individuals to solve their own problems and improve their and the community’s quality of life.

The agent leads or participates in team efforts in Gila County, statewide and nationally. Extension programs are needs-driven, particularly as they apply 1) locally to natural resources and living conditions in high desert and mountain environments, residential horticulture and local foods, and 2) nationally to build Extension capacity addressing climate change and sustainability. The agent contributes in establishing multi-county, statewide and national partnerships with other Extension, research and multi-agency personnel to implement these programs. The agent shall participate in appropriate multi-disciplinary teams, agencies and organizations, and communicate research interests and educational needs to Extension and campus faculty.

The agent shall work with Master Gardeners and other groups in Gila County, providing leadership and expertise through training and coordination of volunteer and community development activities. The agent works with target audiences identified through local needs and planning assessments in solving problems, utilizing new technology and information in natural resources and horticulture, including Wildland Urban Interface fire mitigation, biomass utilization opportunities, watershed and water issues, horticulture, local foods and farmers’ market development, and other critical issues as identified.

The agent shall provide leadership to build Extension educators’ capacity to more effectively address and communicate climate change impacts on natural resources and sustainability, both at the state and national level, through participation and planning of workshops, webinars and professional development training.

The agent is expected to keep current in his area of responsibility and transfer appropriate research based information and technology to clientele via publications, educational programming, or the media.

The agent is also expected to comply with all Civil Rights mandates and actively solicit participation from under-represented groups in Extension programming.
Title: Moving to Forest Health and Watershed Protection: A Year-long Immersion in the Study of Water in the Arid West
Agency/Sponsor: United States Environmental Protection Agency
Role: PI
Total Funding: USD $ 30,940.00
Status: Submitted - Denied Funding
Total Funding Anticipated: $ 91,000—Denied

Title: Needs Assessment and Recommendations for Water Resources in Cobre Valley
Agency/Sponsor: Bureau of Reclamation/Water Resources Research Center
Role: Other
Total Funding: USD $ 15,510.00
Status: Funded - In Progress
Total Funding Anticipated: $ 48,660

Title: Raising Water Awareness in the Globe-Miami Community
Agency/Sponsor: Freeport-McMoRan International
Role: Co-PI
Total Funding: USD $ 26,000.00
Status: Funded - In Progress
Total Funding Anticipated: $ 26,000.00

Title: Waste to Wisdom II: Development of a Woody Biomass Feedstock Supply Chain for Bioenergy and Bioproducts in the Southwestern US
Agency/Sponsor: United States Department of Agriculture / Humboldt State University
Role: State PI
Total Funding: USD $ 50,000.00—Denied
Status: Submitted for Review
Total Funding Anticipated: $ 50,000.02
Christopher Jones Publications

Journal/Publication
Completed/Published

Poster Presentation
Completed/Published

Invited Presentation
Completed/Published


Chapter
Accepted

In Progress

Review
Revise & Resubmit
Globe Extension Office

Family and Consumer Science/Horticulture Home Horticulture

1. Teach Master Gardener class in Payson, Spring 2017.
2. Meet with last year's Payson MG students to develop a new Master Gardener chapter. Host at least two programs in Payson area according to the students' interest.
3. Support and assist success of the Project Harvest grant, environmental citizen science research in Globe-Miami, led by UA Dr. Monica Ramirez.
4. Host a Tree education workshop at Matlock Gas Company.
5. Host pesticide safety workshop with Dr. Mike Wierda at Bullion Plaza.
6. Provide continued support for the Globe-Miami Farmers' Market.
7. Teach spring classes for the Payson Community Garden participants.
8. Participate with statewide Extension Horticulture and Master Gardener working groups.
9. Partner with Hattie Braun to write an Extension publication on common tomato diseases in Arizona.

Environment & Sustainability

1. Teach Master Watershed Stewardship course at Bullion Plaza in Miami, Fall 2017.
2. Partner with WRRC’s Grant Wienkam to conduct needs assessment and community water education in Globe-Miami, including an Extension publication on water harvesting for homeowners.
3. Host a water education workshop at Bullion Plaza.
4. Assist Bullion Plaza with Hardscrabble lecture series, including a focus on sustainability issues for Fall program.
5. Provide leadership for youth education through the FFA Career Development Activity held in Tucson in March and Project WET in Miami.
6. Partner and work with Arizona Department of Forestry and Fire Management, including presenting at the WUI Homeowners Summit, attend the Council of Western State Foresters meeting, and assisting with developing a Fire Adapted Communities program for Arizona.
7. Provide leadership for the Association of Natural Resources Extension Professionals as 2017 President.
The primary responsibility of this position is to provide leadership in developing and conducting research-based educational programs in animal science, primarily livestock production, and range management with emphasis in Gila and Pinal Counties. The area agent will also participate in planning or implementing natural resource educational programs which complement range livestock production. A major programming effort is in administering the federally funded Reading the Range rangeland monitoring program which is in place on over one million acres on the Tonto National Forest.

The agent participates in or leads team efforts across county lines and statewide in educational programming or appropriate applied research, particularly as it applies to range livestock production. Establishes a multi-county and statewide partnerships with other extension, research, and multi-agency personnel implementing these programs. Conducts problem solving research on site with land managers, livestock producers, other extension faculty, and interested parties and incorporating the research into extension programming efforts and scholarly publications. Conducts a systematic analysis of county data, local resources including clientele and stakeholder input, and historical information in order to identify community assets, program needs, and outreach education opportunities. Promotes interaction and cooperation among commodity groups, and local, state and federal agencies.

The agent works with target audiences identified through local needs assessment in solving problems and utilizing new technology and information in production, resource management, marketing and other areas. Participates in appropriate multi-disciplinary teams, livestock production industry and commodity groups, agencies and organizations, and communicating research interests and educational needs to Extension and campus faculty. Works with 4-H Extension agents and youth paraprofessionals in the state to provide natural resources and animal science expertise through consultations and workshops. Assists agricultural producers and other target audiences in solving problems and utilizing new technology by conducting problem-solving research in the field.

The agent secures financial resources (grants, contracts, in kind contributions, etc.) to enhance the program for agricultural producers. Consults and collaborates with Extension faculty, Experiment Station researchers, and other private and public experts in the development of outreach educational programs, applied research, and scholarly works. Provides information and educational programs to target audiences. Transfers appropriate research based information and technology to clientele via publications, educational programming, or the media. Conducts field days, tours, seminars, workshops, and other outreach educational activities to address critical needs of targeted clientele and audiences.
2016 Reading the Range Grants Awarded

In 2016, Gila County programs led or contributed significantly to the acquisition of $90,080 in grant money for conducting programs in Range Monitoring.

Grants awarded to Gila County

*Tonto NRCD* Donated $23,495  
*USFS* awarded $66,585

Winters Ranch

Pinto Creek on J-B Ranch

Rock House Spring on Delshay
The primary purpose of the Gila County 4-H Youth Development Assistant Agent is to deliver research-based, objective, non-formal education to Arizona youth and families, in order to develop leadership and promote healthy lifestyles and communities. This position provides the youth in the county with non-formal educational opportunities designed to help them develop into useful and desirable citizens of a democratic society.

The 4-H assistant agent develops the Gila County 4-H program by conducting a systematic analysis of the county to identify the community assets, program needs and teaching opportunities. Also, the agent cooperates with community groups, local leaders, volunteer 4-H leader’s councils, Gila County Extension Advisory Board, county extension director, and other extension professionals to develop an annual Plan of Work. The agent shall also identify resource opportunities and write grants to acquire resources to expand and support educational programs.

The 4-H assistant agent is responsible to serve the role of catalyst, advisor and trainer for the Gila County 4-H Youth Development Program. The agent is the primary advisor for the Northern Gila County 4-H Leaders’ Council and Southern Gila County 4-H Leaders’ Council. The agent is responsible of recruitment, coordination of educational training, counseling and recognition of volunteer 4-H leaders. The agent is accountable to disseminate educational materials through county-wide events, workshops, websites, newsletters, other mass media methods to effectually conduct educational programs for youth development. The 4-H assistant agent is responsible to create an awareness of the Gila County 4-H Youth Development program and promote it among rural and urban youth. Also, the agent is responsible to develop constituent driven programs that are appropriate, accessible and affordable to effectively reach youth and adult audiences.

The 4-H assistant agent is accountable to participate in working groups such as the University of Arizona Cooperative Extension, the Arizona Association of Extension 4-H Agents and the National Association of Extension 4-H Agents. In these state and national organizations, the 4-H assistant agent is responsible to collaborate with county, state and national agents to develop new and creative programming efforts, attend and present at professional development conferences and write scholarly work.

The 4-H assistant agent position responsibilities requires teamwork, strong interpersonal and communication skills, leadership, ability to resolve conflict, an innovative approach to programming, and dedication to the needs of youth. Also, the assistant agent promotes cooperative extension as the outreach arm of our state land-grant university, the University of Arizona.
In 2016, Gila County 4-H program led or contributed significantly to the acquisition of $35,710.04 in grant money for conducting programs in 4-H Youth Development.

Grants awarded to Northern Gila County 4-H
- Shirley Caris Foundation- $10,000 for Northern Gila County 4-H Community Club

Grants awarded to Southern Gila County 4-H
- United Fund of Globe-Miami- $8,330 for Southern Gila County 4-H Leaders’ Council
- Truist SW Gas- $2,627.92 for Southern Gila County 4-H Leaders’ Council
- Valley of the Sun Freeport United Way- $14,752.12

The 4-H cloverbuds having fun during the Healthy Living Challenge
Photo by Jessica Zamudio
Invited Speaker

Presentation
*Completed/ Published*

Journal Publication
*Completed/ Published*

Website and Newsletters
*Completed/ Published*
Zamudio, J. M. (2016). Gila County 4-H Newsletters (100%).

Honors/ Awards
Excellence in Animal Science Programming Award, Arizona Association of Extension 4-H Agents, 2016-03-01, Recognizes outstanding effort by members in youth development through animal science programming, evaluation, or research projects. Spring 2016 [CALS Honors Co-awardees: Amanda Zamudio and Mike Hauser]
**4-H Youth Development**

**Creating, facilitating and nurturing opportunities and relationships in 4-H**

1. Develop constituent driven programs that are appropriate, accessible and affordable (i.e. day camps, skill-a-thons, field trips, industry, special interest clubs, school outreach, etc.).
2. Provide Youth Livestock Quality Assurance classes in Gila County.
3. Facilitate opportunities by following the Experiential Learning Model and using positive youth development in 4-H activities and projects.
4. Create and build relationships with individuals and groups in the community, state and nation.
5. Collaborate with other Gila County Cooperative Extension staff to set up a booth at the annual STEM Fest in Globe-Miami and Payson.
6. Provide training and curriculum to 4-H leaders and volunteers.
7. Provides an opportunity for the community to experience the University of Arizona Cooperative Extension.
8. Be culturally sensitive and recognize individuals that are dedicated in the organization.
9. Using different modes of communication to keep communication lines open (i.e. Facebook, mail and emailed newsletters, phone calls, etc.).
10. Collaborate with other 4-H agents across Arizona to provide state 4-H activities (i.e. Arizona Roundup, State 4-H Livestock Judging, State 4-H Skillathon, J.O.L.T. Teen Camp, etc.).

**Developing and implementing research projects in 4-H**

1. Develop and present a journal article or poster to further the knowledge of research.
2. Create evaluation models to evaluate funded programs.
3. Collaborate and research with other agencies and organizations.
4. Submit grant proposals to provide funding for 4-H activities.

**Professional development**

1. Attend state and national professional development conferences (i.e. the NAE4-HA Conference, Western Regional Leaders' Forum, 4-H Agent In-Service, etc.).
2. Attend sessions for the opportunity to learn curriculum that can be applied to the 4-H program in Gila County.
3. Talk and collaborate with my appointed mentor and other agents.
4. Present a topic at a state and national conference (i.e. NAE4-HA Conference, JOLT Camp, Western Regional Leaders' Forum, College and Agriculture and Life Sciences, etc.)
San Carlos Grants Awarded in 2016

In 2016, First Thing First programs led or contributed significantly to the acquisition of $66,922.00 in grant money for conducting programs in San Carlos.

Grants awarded in and around Gila County

Some of the grants listed were team efforts that benefited additional localities in Arizona beyond Gila County.

In 2016, Juan Arias contributed significantly to the acquisition of $66,922 for the San Carlos Nutrition, Obesity and physical activity grant as a sub-contractor to the United way of Tucson for First things first San Carlos region.
Family and Consumer Science/Horticulture

1. Program Coordinator will work with Instructional Aide to incorporate indoor activities to reinforce healthy eating and introduction to fruits and vegetables to child care providers.
2. Conduct training to present and new participants on curricula Grow It, Try It, Like It!
3. Continue implementation of Grow It, Try It, Like It! Educational sessions themed around a garden at Youth Home Services, four Head Start locations, two Apache child care, two Child Readiness and Social Services.
4. Continue to provide agriculture educational sessions to children at Tulapai camp during the summer.
5. Continue Collaborating with United Way of Tucson Southern Arizona to provide four Empower Plus+ courses that improve overall health of the educator
6. Provide parent educational session or resources geared toward nutrition and physical activity at childcare centers, Social Services, and community events.
7. Continue to Collaborate with Graham County to promote oral health resources to the community of San Carlos Apache Tribe.
8. Continue to Collaborate with Pinal County to provide, hearing, vision and developmental screenings in San Carlos Apache Tribe.

Youth Development

1. Implementation Junior Master Gardener curricula at participating locations Detention Center, Bylas Elementary, Mt Turnbull Academy.
2. Promote to recruit 4-H agriculture and archery in San Carlos Apache Tribe
3. Implement and deliver Agriculture sessions at the Nalwoodi Denzhone Community (NDC) Life Center to encourage community gardens for youth.
4. Collaborate and research with other agencies or organizations to apply for additional funding

Community Involvement

1. Continue to participate in the Nalwoodi Denzhone Community (NDC) life center to establish community gardens and agriculture education in the community.
2. Participate in Read On Arizona San Carlos coalition to promote literacy.
3. Collaborate with the public library to support First Things First grants offered through extension.
4. Participate in First Things First events for parent and children outreach.
5. Collaborate with tribal entities to promote natural resources or agriculture career opportunities for high school students.
6. Work with a youth specialist from the University of Arizona to develop Agriculture and Life Sciences career opportunities and provide resources for the community of San Carlos Apache Tribe.
7. Participate in Integrated Resources Management Plan group and collaborate with other entities to preserve San Carlos Apache Tribal land.
Faculty Rank: Area Assistant Agent Family, Consumer, and Health Sciences (Yavapai/Gila)

The primary responsibility of this position is to create and supervise community outreach programs that provide research-based, objective, formal and informal education within the areas of health, nutrition, physical activity, family life skills and development, and food safety.

Using community needs and assessment data, the agent develops and conducts programs with address priority needs. The agent assists adults and families by building coalitions with community groups, agencies, and other organizations.

The agent will promote, organize, train and direct professional staff, paraprofessional staff, and volunteers needed to carry out Extension programs in the counties assigned under the guidelines of the Arizona Cooperatives Extension, including affirmative action and civil rights requirements.

The agent will work collaboratively with agencies and other partners in the counties of assignment and seek funding to implement and expand programming when needed. This expansion may occur through a combination of research projects and grants of which the agent is expected to be an active participant in the counties served and statewide.

The agent helps to plan and assist in subject matter training for staff and volunteers, and may be called upon to serve on statewide committees and otherwise contribute to other Extension, College, and University programs and activities. The agent stays current in subject matter areas by attending professional development conferences and in-serve trainings.

This position is based in Yavapai County, but includes 15% area responsibilities in Gila County.
Hope Wilson Publications

Journal/Publication


Conferences/Scholarly Presentations

Wilson H, Katan P, Newell C. A Place at the Table: Promoting Safe, Locally-grown Produce as a Model for Collaborating with Local Health Departments. National Association of County and City Health Officials (NACCHO); 2016 Jul. Peer Reviewed (60%)
Wilson H. Yavapai Seasonal Harvest: Collaborative Partnership Strategies to Further the Farm to Cafeteria Movement in a Rural County. National Farm to School Network; 2016 Jun. Peer Reviewed. (100%)
Wilson H, Zilliox P. Seed to Read: Connecting Early Literacy, Health, and Gardening. Arizona Department of Education’s Early Childhood Education Unit; 2016 Summer. Peer Reviewed (50%)
Wilson H. Canning with Confidence. High Desert Gardening & Landscaping Conference; 2016 Mar. Invited (100%)

Community Presentations

Wilson H. Seed to Read: Growing Vegetable Soup Read-aloud and Extension Activity. Payson Head Start; 2016 Mar. (100%)

PUBLICATIONS/CREATIVE ACTIVITY (IN PROGRESS)

Journal/Publication

Wilson H, Wyatt MA, Zilliox P. Prickly Pear. Backyards and Beyond. (Submitted for review)

Conferences/Scholarly Presentations

Hope Wilson 2016 Plan of Work: Focus Areas

Family, Consumer and Health Sciences

Early Childhood Health and Literacy

1. Work with Gila County Head Starts and other child care centers and preschool locations to provide training and resources to center staff about nutrition, physical activity and literacy for young children.
2. Partner with Child Care Health Consultants to identify areas of need and potential partners.
3. Submit grant proposals to support training and materials.
4. Continue to participate in ReadOn Arizona.

School-Age Health and Literacy

1. Coordinate with 4-H to continue to provide Health Through Literacy.
2. Complete follow-up teacher survey about Health Through Literacy 2015-2016 school-year activities.
3. Use survey results to plan for the 2016-2017 school year.
4. Reach all Gila County public schools grades K-4th with 4, grade-level appropriate nutrition and physical activity themed books and classroom activities.
5. Evaluate impact of program.
6. Identify funding to more sustainably support staff, travel and materials.

Parent Outreach and Education

1. Work with Gila County Head Starts and other child care centers and preschool locations to reach and engage parents in nutrition, physical activity and literacy as a family.
2. Partner with Gila County WIC and other organizations serving young children to support nutrition and physical activity education for parents.
3. Provide parent education materials to K-4th grade that correspond with Health through Literacy Activities to extend classroom lessons to home.
4. Submit application for First Things First Parenting Education grant. If funded, expect to hire one full-time Program Coordinator to provide series parenting education workshops regarding child development, school readiness and health for children 0-5; and increase outreach and awareness to parents.

Food Safety and Food Preservation

1. Collaborate with Master Gardener program to provide food safety and food preservation workshops as requested.
Sights and Scenes of Cooperative Extension at Work
Master Gardeners and Watershed

Master Watershed Dam Group

Frank Lloyd Wright Students

Teaching Master Watershed students how to test for E. Coli

U of A Student Alexis Salter serving pie at Farmers Market

Master Gardeners Planting Party

Chris Jones and daughter Sarah Volunteering at STEMfest

Photos donated by Forrest Hammer and Chris Jones
Sights and Scenes of Cooperative Extension at Work
4-H Youth Development

Scholarship winner
Kacey Heimer
Photo by Amy O’Connor

Emma Van Zile and Shadow
Photo by Lori Brown

Scholarship winner
Mollie Mae Griffin
Photo by Amy O’Connor

Payson Cloverbuds giving a cooking demonstration.
Photo by Jessica Zamudio
Northern and Southern Gila County Fair

4-H members showing off their awards from the livestock judging contest. 
Photo by Leslie Sexton

Cooper Wilson showing his breeding doe. 
Photo by Shane Hicks

Taylor Hogue showing her market hog. 
Photo by Jessica Zamudio

Lillimay Guilliam with her horse. 
Photo by Jessica Zamudio

Outstanding ANLS Exhibitor Lane Guilliam. 
Photo by Jessica Zamudio
Sights and Scenes of Cooperative Extension at Work
4-H Youth Development

4-H members painting the town in Miami
*Photo by Globe Miami Times*

4-H members prepping bags for Historic Home Tour
*Photo by Jessica Zamudio*

4-H members practicing for the ANLS Skillathon Contest
*Photo by Jessica Zamudio*

4-H members playing jenga at STEM Fest
*Photo by Jessica Zamudio*
Sights and Scenes of Cooperative Extension at work
San Carlos

Rice Elementary Watermelons
Photo taken by Juan Arias

Nalwoodi Denzhone Community Life Center
Photo taken by Juan Arias

Bylas Child Care & Head Start Garden
Photo by Juan Arias

Nalwoodi Denzhone Community Life Center
Photo taken by Juan Arias
Sights and Scenes of Cooperative Extension at work
San Carlos

Apache Child Care Summer Garden
Photo by Juan Arias

Head Start Garden
Photo by Juan Arias

Diane Craft Training Activity for Parents & Educators
Photo by Juan Arias

Family Fun Night Activity
Photo by Juan Arias
Sights and Scenes of Cooperative Extension at work
San Carlos

Mt Turnbull Elementary Garden
*Photo by Juan Arias*

Nalwoodi Denzhone Community Life Center Sugar Cane Session
*Photo by Nalwoodi Denzhone Staff*

Tulapai Camp Session
*Photo by Tulapai Camp Staff*

Social Services Garden
*Photo by Juan Arias*
2015 and 2016 Gila County Demographics

Agriculture/Forestry/Fishing/Mining 10.2%
Construction 6.8%
Manufacturing 3.2%
Wholesale Trade 0.8%
Retail trade 11.4%
Transportation/Warehousing/Utilities 4.9%
Information 1.0%
Finance/Insurance/Real Estate/Rental/Leasing 5.1%
Professional Scientific/Management/Administration 7.2%
Educational services/Health Care/Social Assistance 10.2%
Arts, Entertainment /Recreation/Accommodation/Food 12.1%
Other Services, except Public Administration 3.9%
Public Administration 8.3%

Population July 1, 2016 53,597
Median Household Income $40,042
Percentage below poverty 24.4%
Unemployment 8.0%
No health Insurance 21%
High School graduate or > 80%
Bachelor Degree or > 17.1%
Rated 12 non- Healthy of 15 AZ Counties

Photo by Ashley Hall

Ethnicity Graph for Gila County

https://suburbanstats.org/population/arizona/
https://factfinder.census.gov
Mapazdashboard.arizona.edu

Photo by Ashley Hall
Fall in Arizona on the Dagger Allotment  *Photo by Ashley Hall*

Roosevelt Lake from Dutchwoman Allotment  *Photo by Ashley Hall*

Traffic jam on the way to Haystack Butte Ranch  *Photo by Ashley Hall*