“Agricultural extension is a general term meaning the application of scientific research and new knowledge to agricultural practices through farmer education. The field of extension now encompasses a wider range of communication and learning activities organized for rural people by professionals from different disciplines, including agriculture, agricultural marketing, health, and business studies.”

“The Cooperative Extension Service, also known as the Extension Service of the USDA, is a non-formal educational program implemented in the United States designed to help people use research-based knowledge to improve their lives. The service is provided by the state's designated land-grant universities.”

In 1862, Abraham Lincoln signed into law the Morrill Act, which started land grant universities.

- $1,450,565 Salaries, programs and equipment
- 22,015 face-to-face contacts with county residents

- 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

Globe Office
5515 S. Apache Avenue
Suite 600
Globe, AZ 85501
928-402-8585

Payson Office
107 W. Frontier
PO Box 2844
Payson, AZ 85547
928-402-4160

San Carlos Office
400 Apache Avenue
PO Box 850
San Carlos, AZ 85550
928-475-2350

https://extension.arizona.edu/gila
From the Desk of
Letter from Rick Gibson, Interim Regional Director ............................................. 2
Communities Serviced ........................................................................................ 2

Faculty & Staff
Faculty & Staff .................................................................................................. 3
Visiting U of A Faculty ...................................................................................... 3

Boards & Tribal Council
Board of Supervisors ...................................................................................... 3
Extension Advisory Board ............................................................................... 3
San Carlos Tribal Council .................................................................................. 3

Major Gila County Programs
Program Definitions ......................................................................................... 4

Chris Jones, Agriculture and Natural Resources
Master Gardener / Horticulture .......................................................................... 5
Environment & Sustainability, Plan of Work .................................................. 6

Ashley Hall, Animal Science & Natural Resources
Range Monitoring, Plan of Work ...................................................................... 7

Patrick Rappold, Forest Health & Natural Resources
Summary, Plan of Work .................................................................................. 8

Ashley Dixon, Family Consumer Health Science
Summary, Plan of Work .................................................................................. 9
Programs .......................................................................................................... 10

Juan Arias, Tribal Extension Programs in San Carlos
Federal Recognized Tribal Extension Programs .............................................. 11
Nutrition, Obesity, Physical Activity / Developmental Sensory Screening .... 12

Renee Carstens, 4-H Youth Development
Membership & Clubs, Plan of Work ................................................................ 13
Camps, Fairs, Facebook sites ........................................................................... 14

Financials
Grants & Donations ....................................................................................... 15,16
Salaries & Operations .................................................................................... 16

Programs at work in Gila County
Pictures of each program ................................................................................ 17
Pictures of 4-H Camps, North & South County Fairs ..................................... 18

Demographics
Gila County ........................................................................................................ 19
We are pleased to announce that, as of December 2017, Gila County Cooperative Extension has filled all faculty and staff positions and is operating at full strength. With a full complement of faculty in place, the residents of Gila County can now expect to see results from their programs throughout the county.

As you will be able to see from the various sections in this edition of our annual county report, much is happening in each of the program areas. We invite you to spend a few minutes reviewing the activities and results that our faculty has shared.

As always, we want to get to know each person who lives in Gila County and help them to learn from or engage in each of our program offerings that would be of benefit to them. If you see something here that catches your interest and you would like to learn more, or become involved, we invite you to get in contact with the faculty or staff person in charge or call the Payson, Globe, or San Carlos office that is most convenient to you.

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.

Rick Gibson
Interim Director

Gila County Citizens Served in 2017

<table>
<thead>
<tr>
<th>Program Area</th>
<th>Youth</th>
<th>Adults</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-H Youth Development</td>
<td>483</td>
<td>267</td>
<td>750</td>
</tr>
<tr>
<td>4-H Youth Development San Carlos</td>
<td>72</td>
<td>47</td>
<td>119</td>
</tr>
<tr>
<td>Master Gardener / Watershed</td>
<td>294</td>
<td>684</td>
<td>978</td>
</tr>
<tr>
<td>Range Monitoring</td>
<td>181</td>
<td>78</td>
<td>259</td>
</tr>
<tr>
<td>Family Consumer Health Science</td>
<td>885</td>
<td>750</td>
<td>1,635</td>
</tr>
<tr>
<td>Federal Recognized Tribal Extension Prog.</td>
<td>293</td>
<td>45</td>
<td>338</td>
</tr>
<tr>
<td>First Things First (San Carlos)</td>
<td>2,256</td>
<td>493</td>
<td>2,749</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>4,464</strong></td>
<td><strong>2,364</strong></td>
<td><strong>6,828</strong></td>
</tr>
</tbody>
</table>
Cooperative Extension Gila County Faculty & Staff

University of Arizona Cooperative Extension Gila County Faculty & Staff

Juan Arias, Assistant in Extension, Agriculture and Natural Resources, FRTEP, 4-H, San Carlos
Thuy Bao, Assistant Agent, Agriculture and Natural Resources, FRTEP, 4-H, San Carlos
Renee Carstens, Program Coordinator Sr., FCHS, 4-H, Globe office
Christian Dawson, Instructional Specialist, Sr., FCHS, Payson office
Ashley Dixon, Assistant Agent, Family Consumer Health Sciences, Globe office
Mori Farmer, Business Officer, Payson office
Rick Gibson, Interim Regional Director, Gila, Pinal Counties
Ashley Hall, Area Assistant Agent, Agriculture and Natural Resources, Gila & Pinal Counties
Lani Hall, Coordinator, DSS
Teri James, Instructional Specialist, FTF Nutrition
Christopher Jones, Agent, Horticulture / Environmental, Globe Office
Roxanne McInturf, Administrative Secretary, Globe office
Patrick Rappold, Area Assistant Agent, Forest Health, Gila, Navajo, & Yavapai Counties
Nicole Talkalai, Secretary, San Carlos office
Hope Wilson, Area Assistant Agent, FCHS, Yavapai and Gila County, Prescott
Jessica Zamudio, Assistant Agent, 4-H Youth Development, Globe Office

Visiting University of Arizona Faculty

Mark Apel, Area Extension Agent, Community Resource Development
Dr. Janick Artiola, Water Research Professor, Water Resources Research Center
Robert Armstrong, Support Systems Analyst, Sr., Arizona Cooperative Extension
Hattie Braun, Plant Pathologist, Coconino County
Andrew Gerasche, Area Assistant Agent, Ag & Natural Resources Mohave & Coconino
Dr. Julie Brugger, Assistant Staff Scientist, Climate Assessment for the Southwest, Institute of the Environment, U of A
Dr. Michael Crimmins, Climate Specialist, Department of Soil, Water & Environmental Science
Laura Crumbacher, Curatorial Specialist, U of A Herbarium
Dr. Pedro Cuerno, Extension Veterinarian, AZ Veterinary Diagnostic Lab
Debbie Curley, Extension Agent, Family Consumer & Health Sciences, Pima County
Dr. Dale Despain, Research Specialist, Sr., School of Natural Resources and the Environment
Dr. Suzanne Eden, Assistant Director, Water Resources Research Center
Connie Furth, Administrative Associate, Cochise County
Dr. Peter Ellsworth, Integrated Pest Management Extension Specialist, AZ Pest Mgt 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
Malissa Grantham, Assistant to Extension, 4-H Youth Development, State Office
Mike Hauser, Extension Agent, 4-H Youth Development, Apache County
Ashley Hullinger, Research Coordinator, Water Resources Research Center
Dr. Gerardo (Jerry) Lopez, Assistant Professor and STEM Extension Specialist
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
Susan Peter, Extension Agent, 4-H Youth Development, Cochise County
Charles Perry, Research Specialist Senior, School of Natural Resources & the Environment
Dr. Steve Pan, Professor, Agriculture & Bio-systems Engineering
Dr. Monica Ramirez-Adreotta, Assistant Professor, School of Soil, Water & Environment Science
Dr. George Royle, Range Management Specialist, School of Natural Resources and the Environment
Dr. Kerry Schwartz, Program Director, Water Resources Research Center
Dr. Jeff Silvertooth, Associate Dean for Economic Development & Director of AZ Cooperative Extension
Trent Tangerstrom, Associate Specialist, Production Economics, Crop Budget Development & Risk Management Education, FRTEP Project Director
Dr. Russell Trenstad, Professor & Extension Specialist, Agricultural Resource Economics
Peter Warren, Entomologist Horticulture Agent, Pima County Cooperative Extension
Dr. Grant Weinkam, Research Analyst, Water Resources Research Center
Ashley Wright, Area Extension Agent, Livestock, Southeast Arizona
Amanda Zamudio, Associate Agent, 4-H Youth Development, Santa Cruz County

University of Arizona Gila County Boards & Tribal Council 2017

Board of Supervisors

Tommie Martin District I
Tim Humphrey District II
Woody Cline District III

Advisory Board

Mike Burket
Twila Cassadore
David Cook
Diana Hemovich
Albert Hunt
Fred Jimenez
Clark Richins

San Carlos Tribal Council

Terry Rambler Tribal Chairman
Tao Etipson Vice Chairman
Velasquez Sneezy Gilson Wash
Simon Hooke Gilson Wash
Bernadette Goode Seven Mile Wash
John Antonio Jr. Seven Mile Wash
Fred Ferreira Peridot
Dr. John Bush Peridot
Allred Pike Jr. Blyas
Jonathan Kitcheyan Blyas
Ned Anderson Jr. Blyas
4-H Youth Development
Jessica Zamudio / Renee Carstens
Assistant Agent & Program Coordinator Sr.
The Gila County 4-H Program Agent and Coordinator 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. They also cooperate 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 Coordinator shall also identify resource opportunities and write grants to acquire resources to expand and support education programs.

Family Consumer Health Sciences
Ashley Dixon / Hope Wilson
Assistant Agent / Area Agent
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 which address priority needs. The agent assists adults and families by building coalitions with community groups, agencies, and other organizations.

Animal Science & Natural Resources
Ashley Hall
Area Assistant Agent
Rangeland monitoring through the Reading the Range Program began in 2001 at the request of stakeholders to provide vegetation data to ranchers and 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.

Forest Health & Natural Resources
Patrick Rappold
Area Assistant Agent
In cooperation with the USDA Forest Service, the Forest Health Program provides assistance to protect, improve, and restore forested ecosystems from the adverse effects of insects and diseases in the State of Arizona with emphasis on private and state owned lands.

Environment & Sustainability
Agriculture & Natural Resources
Christopher Jones / Agent
A primary responsibility of this position is to provide leadership in developing, implementing and evaluating educational programs. These programs aim to improve the sustainability of natural resources as well as rural communities. Another goal is to increase understanding and involvement in natural resources, not only including forest, but also watershed issues and horticulture in the rural community. A final aim is to increase the effectiveness of clientele, groups, and individuals, and to empower them to solve their own problems, improving theirs lives as well as the quality of life for the community.

Nutrition/Obesity/Physical Activity
Juan Arias / Teri James
Assistant to Extension / Instructional Specialist
This position will be responsible for educational sessions/enrichment activities to introduce children to fruit and vegetables. Responsible to reach parents and or participate in outreach activities to promote the program, provided assistance for training, assistance in data collection and reporting.

Federally Recognized Tribal Extension
Agriculture & Natural Resources and 4-H Youth Development
Juan Arias
Assistant to Extension
A primary responsibility of this position is to provide an educational session in agriculture, nutrition, and physical activity. The assistant in Extension is working with the Cattle Association and tribal farms to provide additional relevant topics to community members in San Carlos Apache Tribe. The Educator has joined the Tribal Farms committee and has promoted and expanded the 4-H program in San Carlos.

FCHS Triple P
Renee Carstens / Chrissann Dawson
Program Coordinator Sr. / Instructional Specialist Sr.
This position is responsible for outreach and delivering of the Triple P curriculum with instruction throughout Gila County. Other components are parenting & education workshops, events, activities, and data collecting.

University of Arizona Nutrition Network
Developmental & Sensory Screening
Thuy Bishop / Lani Hall
Health Educator / Coordinator
This position is in charge of the sensory (vision/hearing) and developmental screenings in Globe, Payson and San Carlos. This position started last year providing and promoting screening services to young children ages 0-5 years of age. Building partnerships with the different entities within these areas has allowed the program to be more visible and known among the different agencies and the communities. The educators carry their vision and hearing equipment to setup at different locations.
Master Gardener Training:
- Mr. Jones provided significant educational experiences to at least 311 clients through workshops, classes and guest speaker presentations open to the public.
- Agent Jones taught a Master Gardener Training Course in Payson during the spring. There were 13 enrolled students and 8 graduates. These students increased their knowledge, critical thinking and skills about horticulture. These students average for the pre-test was 9.75/20; after the class, students average for the post-test was 14.43/20.

Payson Master Gardeners:
- A core of 5 students from the 2016 training course in Payson met 5 times last year to discuss and initiate the group's formation with Agent Jones’ guidance.
- As a group project, they identified plants in the Payson Community Garden Pollinator Garden, and Agent Jones created and contracted 24 ID plaques for installation at the garden.
- This group has also established a relationship with the Shadow Rim Girl Scout camp for 2018.

Payson Community Garden:
- Partnered with the Payson Community Garden to offer public training classes.
- The agent taught garden planning (32 participants), and bugs and diseases (28 participants).

Pollinator Demonstration Garden:
- Advised 8 students from the Frank Lloyd Wright Architecture school for a pollinator demonstration garden at Freeport McMoran Inc. (FMI). They discussed appropriate plant materials, noise abatement community education and other features for a demonstration garden.
- Students delivered a community presentation (80 participants) in Globe (where Mr. Jones was recognized and participated in Q&A). He met with the students to deliver the garden plan and discuss installation details with FMI leadership in March.

Regional Food Hub:
- Provided support for Southern Gila County Economic Development Corporation director Karalea Cox to explore the feasibility and initiation of a Copper Communities Regional Food Hub, including editing and distributing a survey and arranging a community presentation with UA Dr Matt Mars and Karalea Cox.

Plan of Work:
- Teach Master Gardener classes in Globe and Payson, Fall 2018.
- Continue to guide and support the new Payson Master Gardener group to pursue volunteer hours and foster relationships with the Shadow Rim Girl Scout Camp and Payson Community Garden.
- Teach fruit-tree grafting techniques to the Payson Master Gardeners.
- Support and assist success of the Project Harvest grant; environmental citizen science research in Globe-Miami, led by UA Dr. Monica Ramirez.
- Host a Globe-Miami gardener gathering and CE event at Matlock Gas, guest speaker Rick Gibson.
- Teach classes for the Payson Community Garden spring training series for the public and community gardeners.
- Host a public fruit tree-pruning workshop in Young, AZ.
- Attend to public requests by phone and email, and make house calls when deemed appropriate.
- Participate with statewide Extension Horticulture and Master Gardener working groups.
- Partner with Hattie Braun to write an Extension publication on common tomato diseases in Arizona.
Environment and Sustainability Programs

WRRC Partnership:
• By fostering an Extension partnership with the UA Water Resources Research Center (WRRC), Agent Jones brought in Dr. Suzanne Eden and Ashley Hullinger to conduct a water resources needs assessment for the Globe-Miami area initiated in 2016.
• The partnership with WRRC has helped to build relationships with mining companies and city water programs in Globe and Miami. They see water conservation as crucial for the community and UA Extension a resource and partner. There is now an effort to pursue a BOR grant to form a Watershed Partnership in the Cobre Valley community.

Project Harvest:
• Agent Jones supported UA Dr Monica Ramirez for a National Science Foundation grant to conduct a citizen science rainwater harvesting project in Globe-Miami, called Project Harvest. The project will help determine the safety of using rainwater for consumptive needs, starting with gardening.
• Mr. Jones helped to coordinate a public outreach seminar at (2/17; 20 participants); meetings with Freeport McMoran and Miami High School, which was designated as the rainwater harvesting demonstration site; and outreach for a student/coordinator training (7/12-16, 16 participants). Mr. Jones is one of 20 participating citizen scientists.

Hardscrabble Lecture Series:
• Agent identified and invited speakers for the Bullion Plaza Museum Hardscrabble Lecture Series, including speakers: UA Janick Artiola (Wells and water quality, 16 participants); BTA Terry Stone (Mushrooms, 15 participants); AZ State Climatologist Nancy Selover (Drought, 18); UA Mark Apel (Sustainability, 13 participants); WRRC Suzanne Eden and Ashley Hullinger (Creating a water resources map, 17 participants); WRRC & Gila County Bethany Cheney (Pinal Creek Trail Project, 20 participants).

Climate Masters Extension and Outreach:
• Mr. Jones, and Dr Paul Gutierrez (PI) at NMSU, were awarded a $249,969 multi-state NIFA grant to explore Climate Masters Extension and Outreach programming. Chris was awarded $113,997 as co-PI for the UA portion of the grant. In 2017, most actions have been administrative, including setting up the grant, and arranging to teach a semester long climate science course through the Gila County Community College in Globe and Payson in 2018.

Youth Activities:
• Agent Jones assisted UA Kerry Schwartz and her staff to conduct the WaterFest at Copper Rim School in Globe (5/4), with 35 community volunteers and nearly 350 local 4th grade students; Mr. Jones taught around 80 youth about watersheds. This was the 4th UA WaterFest in the Globe-Miami. It is now led by the Gila County School Superintendent as an annual event.
• Mr. Jones led the FFA Forestry Career Development Activity on the University of Arizona campus with partners from the USFS and AFFM (approx. 120 students);
• Assisted with the planning and outreach for the Pinal Creek Trail Holiday Fitness event at Dominion Park, where Mr. Jones and Dr. Eden hosted a booth on water resources and watersheds (21 adults; 47 youth).

Plan of Work:
• Teach pilot Climate Science course at Bullion Plaza in Miami and Payson, Fall 2017.
• Conduct at least 3 focus group events to explore Climate Masters Outreach and Extension opportunities.
• Collaborate with WRRC’s Dr. Suzanne Eden and Ashley Hullinger to initiate a Watershed Partnership in the Cobre Valley community, including assisting with community workshops.
• Assist Bullion Plaza with Hardscrabble lecture series, including a focus on sustainability issues for Fall program.
• Provide leadership for youth education through the FFA Career Development Activity held in Tucson in March and Project WET WaterFest in Globe.
• Partner and work with Arizona Department of Forestry and Fire Management, and assist with developing a Fire Adapted Communities Network for Arizona.
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.

**Range Monitoring:**

- Participated in the Agriculture Days Program at Julia Randall Elementary School in Payson. Taught “Range Monitoring” Lesson to 181 students in seven 3rd grade classes.
- Continued rangeland monitoring with local stakeholders through the *Reading the Range* program. Monitoring was completed at 110 key areas across 32 allotments on the Tonto National Forest; including seven allotments (18 new key areas) that had not previously participated. *Reading the Range* was completed through the use of US Forest Service (USFS) personnel (4 seasonal employees and range management staff) and four Independent Contractors. Funding for contractors was provided by USFS and Tonto Natural Resource Conservation District.
- Worked with USFS personnel to establish a three year monitoring schedule for allotments currently involved in *Reading the Range*. Monitoring schedule was prioritized based on allotments undergoing NEPA and grazing permit renewal within the next two years. The schedule will also focus on allotments with no *Reading the Range* data.
- Acted as Co-Director “in-training” for *Natural Resource Conservation Workshop for Arizona Youth* held annually at James 4-H Camp on Mingus Mountain. This year’s camp theme was “Olgies” and covered basic natural resource principles (ecology, geology, climatology, archeology, botany, and soils) took place July 17-21 with 33 students, grades 8-12.
- Provided two educational workshops based on stakeholder requests. *Rangeland Precipitation Monitoring Workshop* on June 15 with 35 participants and *Range and Livestock Workshop* on September 22 with 36 participants.

**Plan of Work:**

- Teach basic range monitoring topics in Payson schools as part of Agriculture Days Awareness Program.
- Continue vegetation monitoring with local stakeholders through the *Reading the Range* Program. Expand program to stakeholders currently not involved.
- Work with U.S. Forest Service personnel to establish a 3-5 year monitoring schedule for allotments currently involved in *Reading the Range*.
- Act as Co-Director “in-training” for *Natural Resource Conservation Workshop for Arizona Youth* held annually at James 4-H Camp.
- Provide two educational workshops (summer and fall) on topics based on stakeholder feedback.
In December, Patrick Rappold joined the Gila County Cooperative Extension office. Patrick transferred from the Arizona Department of Forestry & Fire Management where for the past seven years he worked as a Wood Utilization & Marketing Specialist. Within that role, Patrick applied his knowledge of forest-based enterprises to provide technical assistance and provide contacts for business to business connections. After graduating with a Ph.D. in Forest Products from Virginia Tech in 2006, Patrick went to work for Georgia-Pacific in Roxboro, NC as a Quality Control Technician. Later Patrick transitioned to the hardwood lumber sector in Latrobe, PA as Dry Kiln Technician. Patrick works out of the Payson, AZ office and serves Gila, Navajo, and Yavapai Counties.

**Plan of Work:**

- Develop and distribute *Needs Assessment Survey* for forest based enterprises and stakeholders in Gila, Navajo, and Yavapai Counties
- Serve as a Stakeholder in the Four Forest Restoration Initiative
- Monitor economic impact of Arizona’s forest-based enterprises
- Work with in-state and out-of-state businesses to expand the utilization capacity of the by-products removed from forest and grassland projects in Arizona

Mastication of juniper to restore grasslands remains one of the most cost effective means of removal (A). The vast amounts of grassland restoration projects, in Arizona, has attracted manufacturers of traditional timber harvesting equipment to adapt their machinery to removing juniper. Recently the Ponsse equipment company demonstrated a shear-type-harvesting head on their cut-to-length harvester in Yavapai County (B).
In September, we welcomed Ashley Dixon as the Family Consumer and Health Sciences (FCHS) Agent. This position works with families, individuals and child care providers. Previously, Ashley worked for Purdue University Extension in a similar capacity for about 3 years in South Bend, IN prior to moving back to AZ, her home state. She has spent most of her career and education working with and studying young children, their families and caregivers. Some of her experiences entailed running a FTF funded Family Resource Center in South Phoenix for two years, working in orphanages in Ecuador, as well as working with non-custodial parents of which many had domestic violence and substance abuse challenges. She received a Master’s in Infant Family Practice (essentially Infant Mental Health) and continued her education seeking a PhD (completed 3 years of this program) in Family Studies and Human Development with an emphasis in Early Childhood Development at the University of Arizona. Her focus was particularly on early intervention in diverse and low-resourced populations. Ashley looks forward to what FCHS programs can bring to those in Gila County and hopes to blossom the programs throughout. Her focus and efforts are on programming and funding for programs, and for families and individuals around the areas in need of Parenting, Health and Well-Being, Nutrition, and Financial Literacy.

**FCHS:**
- Assisted Parent Education Instructional Specialist, Sr. in developing relationships in northern Gila County, posted new job for Program Coordinator to bring staff to full capacity, signed-up to become trained in specific parenting curricula, and found grant opportunities to expand and maintain current parenting education in Gila County.
- Became trained in Sensory and Developmental Screenings and took over supervision of one staff person and is transitioning to take over supervisory role for additional 1.0 FTE staff person. Worked extensively to gain rapport with current staff and to assist them in any way possible-from connecting them to untapped audiences, to working to set-up community wide opportunities, to screen children, to getting them supplies when needed.
- Shadowed oral health specialist and worked to gain access to previously untapped audiences (i.e. Teen Mother Groups for oral health education).
- Attended 40 hours of CCHC training and is now the CCHC for the First Things First Gila region. Thus far contact has been made with Quality First providers and meetings/trainings have been set-up.
- Set up collaborations for financial literacy with community entities such as San Carlos Social Services, Community Action Program, Payson Transitional Shelter, etc.

**Plan of Work:**
- Support current Parent Education program by becoming trained in Triple P curricula, support staff through encouragement and community connection, and apply for outside funding to continue this program past the current FY.
- Fully transition both Sensory and Developmental Screening grants into Gila County and continue to support staff in their efforts to reach wider audiences.
- Continue to assist oral health specialist in reaching new audiences and supporting the implementation of proper oral health practices throughout Gila County.
- Become trained in Child Care Health Consultant (CCHC) and develop relationships with Child Care Providers throughout Gila County.
- Identify needs and create collaborations with trusted existing entities surrounding financial literacy or management.
Family Consumer Health Science Continued...

**Triple P Programs:**
- Program Coordinator Sr. Renee Carstens, Instructional Specialist Sr. Renette Joshua, and Instructional Specialist Sr. Chrisann Dawson, provided Parenting programs using the Triple P curriculum throughout Globe, Miami, Payson, Pine and Strawberry regions.
- Triple P Level 2 was on *Parenting Tots*: which consisted of three 90 minute sessions - Power of Positive Parenting, Raising Confident, Competent Children and Raising Resilient Children.
- Triple P Level 4 was a *Behavior Management Series*: Four 2 hour sessions and one brief phone consultation—to learn and practice 17 positive parenting strategies.
- Three caregivers were hired and background checked, in order to enable the parents to attend with their children without any cost to them.
- Healthy snacks were also a great incentive.
- Recruiting consisted of using flyers, post cards, brochures, and web media along with attending interagency collaborative meetings, and setting up booths at events.
- At each event, staff gathered contact information from interested families. Churches, Head Starts, and schools opened their doors enthusiastically and commented on how grateful they were to have these programs.
- Had 102 parents register with 63 completing the courses.

**Developmental Sensory Screening:**
- Coordinator Lani Hall, is in charge of the sensory (vision/hearing) and developmental screenings in the Globe and Payson area for the year of 2017.
- Mrs. Hall was able to conduct 244 hearing, 239 vision and 191 ASQ3 screenings.

**Book Magic Workshop:**
- The Coordinators and Instructional Specialist offered Book Magic Workshops weekly at local libraries as part of parent outreach and education, and continuous partnership building with local agencies and businesses.
- Globe, Miami and Pine Libraries participated.
- Had 121 Adults and 164 children attend in 35 workshops.
- Had 3 events titled, *Importance of Early Literacy Development*, working with pre-parents on how they can make a positive impact on young lives by reading to children. Had 5 adults and 54 students attend.

**“Trunk or Treat” event in Payson**
- Over 2,000 people attended.
- 250 packets were distributed per family.
- 300 more families were given contact information about the Parenting Education programs.
Nutrition and Agriculture:

- The Federal Recognized Tribal Extension Program in San Carlos continues to provide educational sessions in: agriculture, nutrition, and physical activity.

- San Carlos Detention Center, Mount Turnbull elementary, St Charles School, Lutheran Peridot, and 4-H youth used the Junior Master Gardener curriculum to learn about:
  - Planting needs, native crops, irrigation, harvesting winter and summer crops, and all gardening management.
  - All were able to produce native crops and crops that were edible which helped introduce youth to healthy options, such as learning about their land, and taking ownership of their gardens.

4-H Youth Development:

- Participated in San Carlos Youth Practicum, education department Pathway to College, and 4-H youth stem specialist to promote agriculture and natural resource careers.

- Recruiting leaders and work with the Cattle Association to promote 4-H and agriculture programs.

- Continue to promote and expand 4-H programs by establishing a garden and archery club.

- Continue to expand and provide horse and steer projects to help preserve long health cultural activities and encourage youth to reconnect with their land.

Agriculture and Natural Resources:

- The Assistant in Extension has joined the Tribal Farms committee to help expand and support agriculture programs in the San Carlos Apache Tribe.

- The Federal Recognized Tribal Extension Program in San Carlos is working with Cattle Associations and tribal farms to provide additional and relevant topics to community members in the San Carlos Apache Tribe.

- The Assistant in Extension educator, contributed to Nalwoodi Denzhone non-profit, to acquire Beginning Farmer and Rancher Development Program (BFRDP)

- The program plans to introduce novice and local resources to promote local food availability.

- The center provided opportunities to educate community members in education, host community events, and promote family activities using community gardens.

- Last year the Nalwoodi Denzhone non-profit provided Apache squash, sugar cane, cantaloupe, zucchini, peppers, and watermelon to the community at affordable prices.

- This was the first small fresh produce stand available in the community within 20 miles of the San Carlos Apache tribe.

- 4-H Youth Development. Nutrition and Agriculture 60%
- Agriculture and Natural Resources 40%
Tribal Extension Programs in San Carlos Continued...

Nutrition/Obesity/Physical Activity:

- Educational sessions reaching up to 250 children in childcare and provider homes were provided by early childhood programs sponsored by First Things First, Assistant in Extension, Juan Arias and Instructional Aide, Teri James.

- Using the Grow It, Try It, Like It! curriculum children participated in enrichment activities.

- These included featured fruits and vegetables; squash, cantaloupe, peach, spinach, sweet potatoes, and strawberries.

- In collaboration with United Way of Southern Tucson Arizona, the Extension office provided 5 Empower Plus sessions to encourage a healthy lifestyle for childcare providers.

- Extension office will continue to work with providers and provide Early Childhood educational sessions themed around a garden.

Developmental Sensory Screening:

Thuy Bishop is the Health Educator in charge of the sensory (vision/hearing) and developmental screenings in the San Carlos Apache Reservation. Her adventure began in October of last year providing and promoting screening services to young children ages 0 - 5 years of age. Building partnerships with the different entities within the San Carlos Apache Reservation has allowed the program to be more visible and known among the different agencies and the community. She carries her vision and hearing equipment to setup at different locations across the community. She hands out stickers; no shots!

- The Health Educator was able to conduct 71 hearing, 52 vision and 6 ASQ3 screenings.
- Educator attended over 20 community events and was able to teach 145 adults about the importance of early screening and basic early development.

The University of Arizona Extension San Carlos office will continue to work with the community to further expand resources, educate, and promote programs that provide a foundation that promote a healthy community. The Extension office will continue to work with specialists in Gila County and surrounding areas to help provide additional programs in the San Carlos Apache Tribe.
In July of 2017, 4-H Assistant Agent, Jessica Zamudio left Gila County to become an Ag teacher in Douglas, Arizona. We welcomed Renee Carstens, who left her position as FCHS Program Coordinator Sr., to take over the 4-H Program. As 4-H Program Coordinator, Sr., Renee is responsible to serve the role of facilitator, advisor and trainer for the Gila County 4-H Youth Development Program. Mrs. Carstens is the primary advisor for the Northern Gila County 4-H Leaders’ Council and Southern Gila County 4-H Leaders’ Council. She is accountable for recruitment, coordination of educational training, counseling and recognition of volunteer 4-H leaders. Renee distributes educational materials through county-wide events, workshops, websites, newsletters, and other mass media methods to effectually conduct educational programs for youth development. It’s her responsibility to develop constituent-driven programs that are appropriate, accessible and affordable to effectively reach youth and adult audiences in both rural and urban areas of Gila County.

**Membership and Clubs:**

- Thirty-two 4-H clubs ranging from livestock, cooking, crafts, leadership development, gardening, archery, and community clubs. New this year is a Kayak and STEM club.
- Active clubs are located throughout Gila County in Payson, Globe, Miami, Tonto Basin, San Carlos, and Young / Pleasant Valley.
- October 1, 2017 began a new 4-H year, active participation of 190 youth members and 36 adult volunteers/leaders.

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

- 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.)
- Provide Youth Livestock Quality Assurance classes in Gila County.
- Facilitate opportunities by following the Experiential Learning Model and using positive youth development in 4-H activities and projects.
- Create and build relationships with individuals and groups in the community, state and nation.
- Host a booth at the annual STEM Fest in Globe-Miami.
- Provide orientation, training and curriculum to 4-H leaders and volunteers.
- Provide opportunities for the community to experience the University of Arizona Cooperative Extension.
- Be culturally sensitive and recognize individuals that are dedicated in the organization.
- Use different modes of communication to keep communication lines open (i.e. Facebook, mail and emailed newsletters, phone calls, face to face, attend community meetings, etc.)
- 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.)

**Professional development:**

- Attend state and national professional development conferences (i.e. the NAE4-HA Conference, Western Regional Leaders’ Forum, 4-H Agent In-Service, etc.)
- Talk and collaborate with other Arizona 4-H staff (i.e. attend meetings and participate in monthly calls).
- Attend sessions to learn new curriculum that can be applied to the 4-H program in Gila County.
4-H Youth Development Programs

Camps:

- In 2017, fourteen 4-H youth members from Gila County attended J.O.L.T. (an Arizona Teen Leadership Camp) designed by teens for teens.
- The camp is a week-long in beautiful 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.
- The participants enjoyed activities that build trust, develop leadership, and improve communication skills.
- Teens from all over Arizona came together to network, expand on teamwork skills and reflect on individual abilities.
- Both Northern and Southern Gila County 4-H Leaders Councils encouraged sponsored campers, which has led to stronger youth engagement in clubs throughout the year.

Fairs:

- Both 2017 Northern Gila County Fair and Gila County Fair offered the communities many fun activities such as open shows, kids day, livestock shows, round robin, exhibits, livestock judging, dog agility show, and the livestock auction.
- 4-H members cared for their animals and were available as hundreds of students from various schools visited during Kids Day.
- This was an opportunity for students to learn about 4-H, livestock and observe 4-H members as they demonstrated their knowledge of animals and answered questions. 4-H members participated in small stock, goat, lamb, swine, steer, and dog shows.
- The round robin, judging, and the auction also kept everyone involved.
- The livestock auctions ran smoothly with 4-H and FFA members making profitable earnings for the livestock projects.

Gila 4-H Facebook sites:

Gila County 4-H
https://www.facebook.com/GilaCounty4H/

Northern Gila County 4-H Community Club
https://www.facebook.com/Northern-Gila-County-4-H-Community-Club-225417271356536/

https://extension.arizona.edu/gila
## 2017 Grants and Donations Awarded or Continuing

<table>
<thead>
<tr>
<th>Funder</th>
<th>Amount</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tractor Supply Company</td>
<td>$1,671</td>
<td>Southern &amp; Northern Gila County Clover Campaign</td>
</tr>
<tr>
<td>Valley of the Sun Freeport United</td>
<td>18,978</td>
<td>Southern Gila County 4-H</td>
</tr>
<tr>
<td>Truist SW Gas United Way</td>
<td>921</td>
<td>Southern Gila County 4-H</td>
</tr>
<tr>
<td>United Fund of Globe-Miami</td>
<td>12,254</td>
<td>Southern Gila County 4-H</td>
</tr>
<tr>
<td>Proceeds from Old Fashioned Fair</td>
<td>4,844</td>
<td>Southern Gila County 4-H</td>
</tr>
<tr>
<td>Shirley Caris Foundation</td>
<td>5,000</td>
<td>Northern Gila County 4-H</td>
</tr>
<tr>
<td>Charley, Katherine, Rebekah Revocable Living Trust</td>
<td>55,000</td>
<td>Gila County 4-H</td>
</tr>
<tr>
<td>Senator Hardt</td>
<td>529</td>
<td>Youth Development</td>
</tr>
<tr>
<td>SPC-CO-Fire</td>
<td>7,063</td>
<td>Fire Education</td>
</tr>
<tr>
<td>Tonto Natural Resource Conservation</td>
<td>35,480</td>
<td>Reading the Range</td>
</tr>
<tr>
<td>U. S. Forest Service</td>
<td>35,480</td>
<td>Reading the Range</td>
</tr>
<tr>
<td>Purina Animal Nutrition</td>
<td>300</td>
<td>Donation Animal Science &amp; Natural Resources</td>
</tr>
<tr>
<td>Merck Animal Health</td>
<td>250</td>
<td>Donation Animal Science &amp; Natural Resources</td>
</tr>
<tr>
<td>United States Dept. of Agriculture New Mexico State University</td>
<td>95,998</td>
<td>Climate Change: Climate Masters Outreach and Extension Agency</td>
</tr>
</tbody>
</table>
### Funder, Amount, Purpose

<table>
<thead>
<tr>
<th>Funder</th>
<th>Amount</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Things First Positive Parenting</td>
<td>111,999</td>
<td>Parenting Education in Gila County</td>
</tr>
<tr>
<td>Gila County Developmental Sensory</td>
<td>33,000</td>
<td>Early Sensory Screening</td>
</tr>
<tr>
<td>San Carlos Developmental Sensory</td>
<td>116,000</td>
<td>Early Sensory Screening</td>
</tr>
<tr>
<td>First Things First</td>
<td>30,000</td>
<td>Oral Health</td>
</tr>
<tr>
<td>First Things First San Carlos</td>
<td>66,922</td>
<td>San Carlos Nutrition, Obesity, &amp; Physical Activity grant, Sub-Contractor to United Way of Tucson in the San Carlos</td>
</tr>
<tr>
<td>United States Dept. of Agriculture</td>
<td>87,321</td>
<td>FRTEP (Federally Recognized Tribal Extension Programs)</td>
</tr>
</tbody>
</table>

**Total** $767,293

---

### Salaries / Wages:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$674,701</td>
</tr>
</tbody>
</table>

### Operations / Programs:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$775,864</td>
</tr>
</tbody>
</table>

**Total:** $1,450,565

<table>
<thead>
<tr>
<th>Salaries / Wages/ERE</th>
<th>Operations / Programs</th>
</tr>
</thead>
<tbody>
<tr>
<td>State &amp; Federal</td>
<td>329,481</td>
</tr>
<tr>
<td>Gila County</td>
<td>673</td>
</tr>
<tr>
<td>Gila County Grants</td>
<td>192,339</td>
</tr>
<tr>
<td>Private Foundations &amp; Industry</td>
<td>0</td>
</tr>
<tr>
<td>State &amp; Federal Grants</td>
<td>71,808</td>
</tr>
<tr>
<td>US Department of Agriculture</td>
<td>80,400</td>
</tr>
</tbody>
</table>

**Totals** $674,701 $775,864

---

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.
2. Federal funds from US Department of Agriculture for Cooperative Extension programs.
3. Grants are listed on the proceeding pages.
4. USDA funds provided specifically to support Extension Agent for the San Carlos Apache Reservation.
Programs at Work in Gila County

Partnering with UA WRRC * Garden & Water Workshops * Working with Students

Teaching future Ranchers Monitoring * All in a day’s work * Workshops

Four Forest Restoration Initiative * Juniper Biomass * Pitch Moth in Pinyon Pine

Teaching at Head Start and Library * Parents reading to children * Ashley, Thuy & kids

M.T Elem., Apache Child Care Gardens * Community Garden Apache Squash * SC Detention Garden
Wildcat Camp * Games & teamwork * Contests

Working together * All in a day's work * Older helping Younger

Northern 4-H Winners * Steer Judging * Swine Judging

Southern 4-Hrs * Winners * New Dog Club

Southern Swine Judging * Goats * Cattle * Small Stock
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

Mapazdashboard.arizona.edu

Photo by Ashley Hall

Mapazdashboard.arizona.edu

Photo by Ashley Hall
“Wildcat Camp” consisted of Gila, Cochise and Santa Cruz 4-H youths

Chris Jones presenting to Western Forester Leadership Coalition

Lightning in Pinal Mountains burned over 7,000 acres

Photo by Tom Story

August 21, 2017
Solar Eclipse drew a lot of attention this year.

Photo by Chris Jones