“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.

- $1,294,649 Salaries, programs and equipment
- 26,350 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
928-474-4160

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

https://extension.arizona.edu/gila
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We are pleased to present you with our latest edition of our Gila County Annual Report and Plan of Work. We invite you to thumb through its pages and see what we are doing! 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.

During the past year, our Gila County Cooperative Extension faculty, staff, and volunteers were highly successful in bringing a full complement of educational programs to the people of Gila County. Perhaps you were one that joined in? If so, we hope that you were able to take home with you a new piece of knowledge, or a practice, that has helped you in some way. If not, we invite you to come see what we are all about. From Forest Health and Home Horticulture to Family Health and Well Being and 4-H Youth Development, we want the people of Gila County to find new opportunities through our programs.

Included in our 2018 Annual Report and 2019 Plan of Work are many of our recent accomplishments and outcomes. From our plans for 2019, you can see that we are excited to continue our work. 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.

Our faculty, staff, and volunteers all appreciate your interest in our work and wish to thank you for your support and participation in all of our program areas. They all work tirelessly in their areas of focus and I wish to thank them for all that they do.

Rick Gibson
Interim Director

Gila County Citizens Served in 2018

<table>
<thead>
<tr>
<th>Program Area</th>
<th>Youth</th>
<th>Adults</th>
<th>Totals</th>
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<td>4-H Youth Development</td>
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<td>722</td>
<td>2153</td>
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<td>Master Gardener / Watershed</td>
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<tr>
<td>Range Monitoring / Animal Science</td>
<td>463</td>
<td>298</td>
<td>761</td>
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<td>Family Consumer Health Science</td>
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<td>1700</td>
<td>4709</td>
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<td>Federal Recognized Tribal Extension Prog.</td>
<td>2636</td>
<td>913</td>
<td>3549</td>
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<tr>
<td>Total</td>
<td>8,109</td>
<td>4673</td>
<td>12,782</td>
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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 Bishop, Health Educator, Developmental Sensory Screening
Renee Carstens, Program Coordinator Sr., Family Consumer Health Sciences, 4-H, Globe office
Chrisann Dawson, Instructional Specialist, Sr., Family Consumer Health Sciences, Payson office
Ashley Dixon, Assistant Agent, Family Consumer Health Sciences, Globe office
Mori Farmer, Business Officer, Payson office
Christina Flores, Program Coordinator, Positive Parenting
Rick Gibson, Interim Regional Director, Gila, Pinal Counties
Ashley Hall, Area Assistant Agent, Agriculture and Natural Resources, Gila & Pinal Counties
Teri James, Instructional Specialist, FTF Nutrition
Christopher Jones, Agent, Horticulture / Environmental, Globe office
Roxanne McInturff, Administrative Secretary, Globe office
Patrick Rappold, Area Assistant Agent, Forest Health, Gila, Navajo, & Yavapai Counties
Nicole Talkalai, Secretary, San Carlos office, Developmental Sensory Screening
Hope Wilson, Area Assistant Agent, Family Consumer Health Sciences, Yavapai and Gila County, Prescott

Visiting University of Arizona Faculty

Dr. Katie Hirschboeck, Emeritus Faculty: Laboratory of Tree-Ring Research
Dr. Malcolm Hughes, Professor: Dendrochronology
Ashley Hullinger, Research Coordinator: Water Resources Research Center
Dr. Gerardo (Jerry) Lopez, Assistant Professor and STEM Extension Specialist
Dr. Matt Mars, Assistant Professor: Department of Agricultural Education
Dr. Cathy Martinez, FCHS Area Agent, Pinal County
Dr. Mitch McClaran, Professor: School of Natural Resources and the Environment
Andy Medina, Support Systems Analyst, Sr., Arizona Cooperative Extension
Dr. Steve Poe, Professor: Agriculture & Bio-systems Engineering
Dr. Monica Ramirez-Adreotta, Assistant Professor: School of Soil, Water & Environm
Dr. George Ruyle, Range Management Specialist: School of Natural Res & the Environm
Trent Teegerstrom, Asst Director Tribal Extension Programs CALS
Dr. Jeremy Weiss, Research Scientist: School of Natural Resources and Environment

University of Arizona Gila County Boards & Tribal Council 2018

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 Jiminez
Clark Richins

San Carlos Tribal Council

Terry Rambler
Tao Etpison
Velasquez Sneazy
Simon Hooke
Bernadette Goode
John Antonio Jr.
Fred Ferreira
Dr. John Bush
Allred Pike Jr.
Jonathan Kitcheyan
Ned Anderson Jr.

Tribal Chairman
Vice Chairman
Gilson Wash
Gilson Wash
Seven Mile Wash
Seven Mile Wash
Peridot
Peridot
Blylas
Blylas
Blylas
4-H Youth Development

Renee Carstens / Jon Hatch
Assistant Agent / Program Coordinator

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
Assistant 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 parenting and financial literacy. Using community needs and assessment data, the agent develops and conducts programs which address priority needs. The agent assists adults and families by building connections with community groups, agencies, and other organizations.

Animal Science & Natural Resources

Ashley Hall
Area Assistant Agent

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 an emphasis in Gila (80% responsibility) and Pinal (20% responsibility) Counties. A major programming effort is in administering the federally funded Reading the Range rangeland vegetation monitoring program which is in place on over one million acres on the Tonto National Forest. This program is a critical need because it provides information which quantifies rangeland health and the sustainability of livestock grazing.

Forest Health & Natural Resource

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

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 their lives as well as the quality of life for the community.

Nutrition/Obesity/Physical Activity

Teri James /Christina Flores
Instructional Specialist / Health Educator

These positions are responsible for educational sessions and enrichment activities to introduce children 0-5, their parents, childcare givers to healthy nutritional options. Responsible to participate in outreach activities to promote the multiple programs, provide assistance for training and collect evaluation.

AmeriCorps—UACE Wildcat Corps

Bronson Nosie / Taylor Barnes / Debra Glasscock
4-H Youth Development / Development Sensory Screen

A statewide network that provides lifelong educational programs for all Arizonans. Members commit their time to address community needs with service that strengthens the capacity of youth to increase educational attainment, address community needs and fosters positive youth development.

Federally Recognized Tribal Extension Program

Juan Arias
Assistant to Extension

The primary responsibility of this position is to establish an Extension presence and support Extension outreach on Federally Recognized Indian Reservations and Tribal jurisdictions of Federally recognized Tribes. The position seeks to continue the land grants mission of providing educations and research-based knowledge to the community. It also aims to provide 4-H youth development programs focus on delivering curricula that promote like skills, horticulture activities, nutrition, and career opportunities. In addition, to provide resources in Agriculture and Natural resources that support rancher/farmers to expand their business and or programs. This position is funded by USDA-NIFA funds that support a full-time agent and half time administrative position in the San Carlos Apache Tribe.

FCHS Triple P

Chrisann Dawson / Christina Flores
Instructional Specialist Sr. / Program Coordinator

These positions are responsible for outreach and delivering of the Triple P curriculum with instruction throughout Gila County. Other components are parenting & literacy workshops, events, activities, and evaluation.

University of Arizona Nutrition Network Developmental & Sensory Screening

Thuy Bishop / Chrisann Dawson
Health Educator / Instructional Specialist

These positions work for the sensory (vision/hearing) and developmental screenings throughout all of Gila County. The positions started last year providing and promoting screening services to young children, ages 0-5 and educating their parents and caregivers. 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.
• Provided significant educational experiences to at least 670 clients through workshops, classes and guest speaker presentations open to the public.

**Master Gardener Training**

• Agent Jones taught two fall semester Master Gardening training course at Gila Community College: Globe (13 enrolled, 7 graduates) and Payson (29 enrolled, 25 graduates). Evaluation comments included: “Chris Jones is an exceptional teacher. He has knowledge, experience and presentational skills. Engages students.”

**Payson Master Gardeners**

• Five gardeners earned Master Gardener pins which were awarded on October 29. Service hours included partnering with Shadow Rim Girl Scout camp; helping the camp with a new garden; grafting heritage apple trees at the camp; teaching two half-day gardening sessions for scouts (6 girls/session); and hosting 3 monthly community booths at the Payson Farmers’ Market. Total hours reported in 2018: 223. Six of the 2018 Payson Master Gardener class and one from Globe initiated DCC paperwork to become volunteers in 2019.

**Freeport McMoran Demonstration Garden**

• The Frank Lloyd Wright Architecture school's garden design was approved and installed with modifications in 2018. Agent Jones continued to advise about plant selections. He led the cactus planting session on July 19 with youth (14) and employees (11).

**Beginning Farmers**

• Agent Jones advised a Miami farmer, Mary Hysong, to apply for a SARE Farmer/Rancher research grant to investigate erosion control methods. He also provided input to the co-op venture Cobre Valley Indoor Farms in Miami, led by Elvin Fant and Camden McGregor, advised by Dr Joel Cuello from the UA School of Bio-systems Engineering.

**2019 Plan of Work**

• Teach gardening course in San Carlos, Spring 2019.
• Guide and support the new Payson Master Gardener group (throughout year).
• Support and assist success of the Project Harvest grant, environmental citizen science research in Globe-Miami, led by UA Dr. Monica Ramirez (throughout year).
• Teach classes for the Payson Community Garden spring training series for the public and community gardeners (March-May).
• Partner with Hattie Braun to write an Extension publication on common tomato diseases in Arizona (throughout year – submit by December).
• Attend to public requests by phone and email, and make house calls when deemed appropriate (throughout year).
Environment and Sustainability Programs—Chris Jones

- Provided significant educational experiences at least 742 adult and 220 youth clientele in the county, state and nationally.

Climate Masters Extension and Outreach
- Agent Jones taught two spring semester Climate Extension Master courses through Gila Community College: Miami Bullion Plaza (19 enrolled, 13 graduates) and Payson (28 enrolled, 25 graduates). Student pretest average was 56%; post-test average was 83%. UA guest presenters included Drs Jeremy Weiss, Mike Crimmins, Gregg Garfin, Don Falk, Malcolm Hughes, Katie Hirschboeck, George Frisvold, and Elise Gornish.

WRRC Partnership
- WRCC's Ashley Hullinger and Dr Suzanne Eden collaborated with Chris Jones to garner a Bureau of Reclamation grant to form the Cobre Valley Watershed Partnership. They organized and hosted an inaugural Cobre Valley Small Town Forum on Water event (9/6) that gathered input from 50 representative community members. Our community stakeholders see water conservation as crucial for the community and Cooperative Extension as a resource and partner. Outcomes include initiating a community water budget among the areas cities and mines and other stakeholders; and permission to initiate a 0.5 mile demonstration trail along Pinal Creek by property owner BHP Copper. The demonstration trail is significant as the UA Landscape Architecture School and Cooperative Extension first researched a Pinal Creek trail concept in 1992.

Project Harvest
- Agent Jones assisted Dr Monica Ramirez and the local project coordinator to conduct the citizen science rainwater harvesting project in the Globe-Miami area. He is one of 21 participating citizen scientists, several of whom he helped to recruit. Lab results from the initial water quality samples demonstrate no major environmental contaminant issues, although total coliforms were high at the end of the monsoon season. The goal of Project Harvest is to help determine the safety of using rainwater for consumptive needs, starting with gardening. Outreach for the 20 participants that volunteered raised awareness (and fears) about environmental health. The fact that the initial recruit. Lab results from the initial water quality samples demonstrate no major environmental contaminant issues, although total coliforms were high at the end of the monsoon season. The goal of Project Harvest is to help determine the safety of using rainwater for consumptive needs, starting with gardening. Outreach for the 20 participants that volunteered raised awareness (and fears) about environmental health. The fact that the initial testing results indicate there were no environmental contaminants above EPA safety limits (with the exception of summertime coliforms) was surprising to many participants.

Forest Health/Firewise Programming
- Highlights of Agent Jones’ efforts include 1) designing, revising and printing a 3’x5’ Be Ember Aware interpretive sign on permanent outdoor display at the Payson Library; and 2) completing a Firewise plant list for Rim Country.

Youth Activities
- Agent Jones led the FFA Forest Career Development Activity with partners from the USFS (3/2, approx 90 students). He assisted UA Kerry Schwartz and her staff to conduct the 5th Annual UA WaterFest at Copper Rim

2019 Plan of Work
- Assist local professor to organize and conduct laboratory and fieldtrip sessions for a Sustainability and Environment class and Gila County Community College (Spring).
- 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 (throughout year).
- Provide leadership for youth education through the FFA Career Development Activity held in Tucson (March) and assist Project WET WaterFest in Globe (May).
- Conduct two focus group event to explore Climate Masters Outreach and Extension opportunities (Summer).
- Host Forestry Symposium and Annual Meeting of the Western Coordinating Committee on Extension Forestry in Payson (July).
Livestock Production/Range Management Programming

- Continued rangeland monitoring with local stakeholders through the Reading the Range (RTR) program. Monitoring was completed at 99 key areas across 27 allotments on the Tonto National Forest; including seven allotments (30 new key areas) that had not previously participated. RTR was completed through the use of US Forest Service (USFS) personnel (4 seasonal employees and range management staff) and three Independent Contractors. Funding for contractors was provided by USFS and Tonto Natural Resource Conservation District.
- Provided 2017 RTR summary reports to USFS and permittees.
- VGS, a monitoring software program, is an integral piece of RTR. Testing, training, and support is provided statewide to interested producers in collaboration with the developer, Dr. Del Despain. Agent assisted in VGS trainings to Tucson staff of Natural Resource Conservation Service, Agricultural Research Service, and Pima County Natural Resources, Parks, and Recreation.

Youth Development Programming

- Participated in the Ag Daze Program at Julia Randall Elementary School (Payson), Lee Kornegay Elementary (Miami), Destiny School (Globe), Tonto Basin Elementary (Tonto Basin), Copper Rim Elementary (Globe), Pine-Strawberry Elementary (Pine). Taught “Rangeland Health” lesson to 429 students in 17 3rd/4th grade classes.
- Acted as Co-Director for Natural Resource Conservation Workshop for Arizona Youth (NRCWAY) held in annually at James 4-H Camp on Mingus Mountain. This year’s camp theme was Wildlife Management and covered principles like predator/prey relationships, carrying capacity populations, animal adaptations, components of

2019 Plan of Work

- Develop state wide forage nutrient content research project with other Agriculture Agents in Arizona.
- Work with other Agents and Extension Specialists to update the Arizona Rancher’s Management Guide.
- Provide additional AI workshops based on feedback from 2018 workshop in conjunction with grant funding to purchase bovine simulator.
- Provide three Beginning Farmer/Rancher workshops in Central Arizona based on requirements of a grant funded by USDA NIFA.
- Assist VGS Development team in providing VGS trainings in throughout Arizona and Colorado.
- Complete 2018 RTR data summary reports, schedule 2019 RTR vegetation monitoring, and continue establishing new monitoring sites on allotments not yet involved in RTR.
- Continue involvement with NRCWAY and Ag Daze.
The Forest Health program provides technical assistance to Arizona’s forest based enterprises to further expand markets to utilize the by-products of forest and grassland restoration projects. Additionally, the Area Assistant Agent provides education and outreach to the public on forest health issues and reducing the threat of catastrophic wildfire to homes and communities.

Delivered Workshops in 2018

April 3, 2018 Bark Beetle Workshop at Gila Community College in Payson, AZ

April 14-15, 2018 Firewise USA® Assessor Course for the Pine Lakes Community in Prescott, AZ

August 11-12, 2018 Firewise USA® Assessor Course for the Forest Lakes Fire District

1Done in collaboration with USDA Forest Service Forest Health Monitoring and the Arizona Department of Forestry & Fire Management

2Done in collaboration with the Arizona Department of Forestry & Fire Management

Presentations Delivered in 2018

- Economic Impact of Arizona’s Forest Products Industries. Northeast Arizona Economic Development Conference in Snowflake, AZ
- Testing of Roundwood Ponderosa Pine for use in Guardrail Applications. 30th Annual Intermountain Roundwood Association Meeting & Social in Missoula, MT
- Resources for Locating Hazardous Fuels Reduction Contractors. 3rd Annual Arizona WUI & Firewise Summit in Pinetop, AZ
- Overview of Forest Industries in Arizona. Project CENTRL. Class 27 in Show Low, AZ
- Yavapai County Forest Health Update. Pinon Oaks Folk’s Home Owner’s Association Annual Meeting in Prescott, AZ
- Forest Restoration & Forest Health in Northern Arizona. Fall into Gardening Meeting hosted by the Coconino & Yavapai Counties Master Gardeners in Flagstaff, AZ
- Forestry in Gila County & Rim Country. 2018 Winter Meeting of the Arizona Agriculture Extension Association in Globe, AZ
Funded Projects in 2018

A total of $98,301 in external funding was secured through the USDA Agricultural Marketing Service Federal-State Marketing Improvement Program for the project “Identification of Opportunities and Barriers for Arizona to Supply Wood Fiber to South Korean Renewable Energy Markets”. This is a joint project with the Ecological Restoration Institute at Northern Arizona University to expand Arizona’s export markets for forest products.

Extension Publications Submitted for Review in 2018

Design Considerations for Lumber Pile Covers in Air-Dry Yards (Original Content)
Considerations when Selecting a Hazardous Fuels Reduction Contractor (Adapted from 2010 Colorado State Forest Service publication Choosing a Forestry Contractor and Consultant)

Creative Productions

Updated the University of Arizona Cooperative Extension Forest Health Website
https://extension.arizona.edu/forest-health
Created an online searchable Directory of Arizona’s Forest Based Enterprises
https://extension.arizona.edu/forestindustry/\n
Notable Work Activities:
Twenty-five visits to private residences to identify tree mortality or tree decline issues.
Completed Firewise USA® Assessments for five private residences in Arizona.
Wrote a Forest Stewardship Plan for a 300 acre parcel of privately owned land in Navajo County.

Drought induced tree mortality followed by bark beetle attacks.
Bark Beetle galleries in a ponderosa pine.
FCHS
Ashley Dixon is the Family Consumer and Health Sciences (FCHS) Assistant Agent. This position works with families, individuals and child care providers.

- Wrote for 4 grants and was awarded 3 to serve the communities within Gila County.
- Managed 6 programs within Gila County, 4 programs that employ additional staff; explained below.
- Built many relationships throughout Gila County with community entities and childcare providers.
- Continued to expand programming within Gila County by writing 3 additional proposals, which will begin in 2019 if awarded.
- Attended 138 hours of professional development.
- Received an award from national association for community partnerships.
- Worked as academic integrity officer and was promoted to co-editor for national association journal.
- Serve as president elect for state association.

2019 Plan of Work

- Continue work in all areas of programming and of the county: DSS Programs in both Gila and San Carlos Apache Regions, NOPA in San Carlos Apache Region, CCHC in Gila Region, Oral Health in Gila Region, Financial Literacy Programming, etc.
- Support staff through encouragement, support and community connection, as well as apply for outside funding to continue this program beyond the current FY.
- Additionally, find funding to expand scope of work to include parenting program, more financial literacy, tribal programming and so on.
- Finally, make a focal point in the coming year to work across disciplines (e.g. 4H and ANR) and across the state to show collective statewide impact.

Positive Parenting (Triple P) Program

- 2018 program ran from January 1-August 30
- Program Coordinator, Christina Flores and Instructional Specialist Sr. Chrisann Dawson, provided Parenting programs using the Triple P curriculum throughout Gila County, including: Globe, Miami, Payson, Hayden/Winkleman, Pine and Strawberry communities.
- Triple P Level 2, titled Parenting Tips: Three 90 minute sessions - Power of Positive Parenting, Raising Confident, Competent Children and Raising Resilient Children.
- Triple P Level 4, titled Behavior Management Series: Four 2 hour sessions and one brief phone consultation—to learn and practice 17 positive parenting strategies.
- 54 parents completed the Triple P program, over the course of 12 series (11 Level 4; 1 Level 2) held throughout the Gila Region.
- Parents/Caregivers said the following after attending Triple P 2018 Gila County Region:
  - 100% said “Helped them to deal more effectively with their child's behavior.” (n=34)
  - 94% said “Helped them to deal more effectively with problems that arise in their family.” (n=35)
  - 97% said “Helped them to develop skills that can be applied to other family members.” (n=34)
  - 58% said because of skills from the program “Reduced level of overall child behavior and emotional problems.” (n=19)
Developmental and Sensory Screening (DSS), Gila Region

- Chrisann Dawson, Instructional Specialist, Sr. (Aug. 2018-December 2018) and Coordinator Lani Hall (January 2018-August 2018), provided screenings for children 0-5 years old. These screenings include hearing, vision and developmental.
- Community collaborators include school districts, preschools, childcare facilities and many more.
- 352 vision screenings, 349 hearing screenings and 101 developmental screenings on children between the ages of 0-5 years of age.

Child Care Health Consultation (CCHC), Gila Region

- Assistant Agent Dixon works as the Gila Regional Child Care Health Consultant providing guidance to Quality First childcare providers in the areas of health and safety.
- 5 sites were visited throughout the year with a total of 16 visits; each visit focused on at least one issue pertaining to health and safety within the classroom; additional information was sent to each site throughout the year (e.g. reducing flu risk, hand washing, locks, hydration, etc.)
- 16 visits to sites and at least one quarterly newsletter with information regarding health and safety (short term outcome); Sites making improvements such as all being at least a 3 Star rating with Quality First and one received a 5 Star rating this year; all sites now have water readily available to children, no push pins [choking/injury hazard], all doors/cabinets are secure with child proof locks, all implement proper handwashing, etc.

Oral Health, Gila Region

- Dental Hygienist, Twylla Gibbens, provides oral health screenings and fluoride varnish, free of charge to 0-5 year olds throughout Gila Region. Additionally, education is provided to 0-5 year olds about the importance of dental health/brushing teeth, daily tooth brushing programs established at childcare sites, and expecting mothers receive informational education about dental care while pregnant.
- 472 children, 0-5 year olds received oral health screenings and about 80% had fluoride varnish applied; 53 group classes were held about the importance of dental health and brushing teeth; One child care center established a daily tooth brushing program impacting 55 children; 24 expecting mothers received education on the importance of dental health while pregnant and with their newborns.
Developmental and Sensory Screening (DSS), San Carlos Apache Region

- Thuy Bishop, Health Educator, provided screenings for children 0-5 years old. This program included hearing, vision and developmental screenings, as well as awareness education about the importance of early screening and early development. Additionally, this program includes support from Nicole Talkalai, an Administrative Assistant, and one 900 hour AmeriCorps, Bronson Nosie (hours split with NOPA program highlighted below).

- Community collaborators include schools, Tribal Hospital Services, ChildFind, WIC, Tribal Social Services, preschools, childcare facilities, Head Start and many more.
- 419 vision screenings, 394 hearing screenings and 117 developmental screenings were performed on children between the ages of 0-5 years of age.
- Over 9,500 people were reached with educational information through outreach activities, radio segments and newspaper articles.
- 33 children received follow-up screenings, after their first developmental screening; 25 children received referrals due to the results of their developmental screenings; 53 children received referrals for hearing; and 154 children received referrals for vision.

Financial Literacy

- Utilize research based financial literacy program created by Purdue Extension, “Where Does Your Money Go”?
- Community collaborators include San Carlos Apache Tribal Social Services.
- 46 adults participated in at least one of the 6 programs held in San Carlos.
- Spending leaks are identified as needless expenses spent on a weekly base (soda, cigarettes, alcohol, movie rentals, candy, snacks, eating out, etc.). The total for 38 participants was $131,594 in spending leaks, making an average of $3,464/year per participant.
- These outcomes were calculated using the post test after participating in the program:
  - Anticipated Behavioral Changes (n=38)
  - 79% said they would “Develop a spending/savings plan in the future”
  - 63% said they would “Spend on needs before wants in the future”
  - 76% said they would “Reduce spending leaks in the future”
  - 59% said they would “Track expenses differently in the future”

Nutrition, Obesity and Physical Activity (NOPA), San Carlos Region

- Partnership between FCHS Agent Dixon and FRTEP Agent, Juan Arias.
- Instructional Specialist, Teri James and Health Educator, Christina Flores, deliver education to children 0-5 years old, their parents/caregivers, as well as childcare providers working with this particular population. These programs include education about nutrition, healthy eating, fruits and vegetables, gardening, physical activity and many additional topics to keep our children and families healthy.
- More than 270 children were reached through programming, 25 parents have enrolled, and 49 Child Care Professionals were set to begin series;
- 14 gardens are being maintained for community and child use;
- Great amounts of effort have been focused on building collaborations with Head Starts, Child Care Centers, Tribal Entities, School District.
4-H and Youth Development

- Continued with the implementation of Horticulture activities in San Carlos Detention Center, Mount Turnbull Elementary, Mount Turnbull Academy, St Charles, Lutheran, and Boys & girls, Club.
- Through the implementation of educational sessions using Junior Master Gardener/UC Santa Cruz Organic Farming curricula 136 youth unduplicated were reached. Youth participated in sessions that included: plant needs, composting, soil, pest control, harvesting, MyPlate, planting, successful garden, plant parts, and cold season and warm season plants.
- Continued with the expansion of 4-H development after-school programs and activities in San Carlos Apache Tribe. Also, 30 youth unduplicated were reached through 4-H club activities that included shooting sports, animal science, horticulture and STEM.
- Presented to youth promoting Agriculture and Natural Resource careers to encourage and expand programs reaching 78 youth.
- Coordinated and continued the establishment of gardening, archery and Lutheran Peridot Club to promote youth development activities.

Agriculture and Natural Resources

- The Assistant to Extension has continued to collaborate with Tribal Farms, Cattle Associations, BIA, Forestry Department, and other entities to expand programs to maintain the support of Agriculture & Natural Resource programs.
- The Federal Recognized Tribal Extension Program in San Carlos and Specialist is continuing to work with cattle associations and tribal farms to provide additional and relevant topics to community members in the San Carlos Apache Tribe.
- The Assistant educator, contributed to Nalwoodi Denzhone non-profit, to acquire Beginning Farmer and Rancher Development Program (BFRDP). Resulted in workshops that included the Greenhouse Technology Demonstration, Educational Community garden, Renewable Water Technologies that reached 118 tribal members.
- In collaboration with Equine Specialist Betsy Greene, Equine workshop was provided and reached 15 community members.
- In collaboration with Econ Specialist provided workshops was provided that focused on Horse management, Land Management, USDA tools, and Financial Literacy that reached 35 farmers and ranchers in San Carlos.
- Assisted in the development and Application of Rural Business Development Grant in partnership with Nalwoodu Denzhone non-profit to expand farmer’s market and horticulture activities in San Carlos Apache Tribe.
- Assisted in the acquisition of USDA NIFA funds of $87,327 to support 1.0 Tribal Agent position, and .5 admin personnel in San Carlos office.
- Participated in Extension Strategic Initiative Program to acquire more funding to support tribal programs.
Tribal Extension Programs in San Carlos Continued...

• Assistant to Extension continued with the implementation of children component of the program.
• In collaboration with Family Consumer Science Agent, Ashley Dixon reapplied for the grant allocating funding to be routed locally to University of Arizona Cooperative Extension Gila County.
• Assisted in the acquisition of 100,000 dollar grant from First Things First NOPA to continue program implementation
• 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
• Educational sessions were provided reaching up to 248 children in childcare and provider homes. Implemented by Assistant Agent, Juan Arias, and Instructional Specialist, Teri James.

2019 Plan of Work

• Support Agriculture and Natural Resources programs by partnering with Tribal Entities and Extension Specialist.
• Continue to provide 4-H youth development activities in participating locations and expand to other locations through events and or partnerships.
• Continue to provide relevant resources to promote and expand agriculture and natural resource programs.
• Continue to look for external funding to support Tribal Extension programs
• Implement child component First Things First NOPA, Beginning Farmers Ranchers and Rural Busi-

Nutrition/Obesity/Physical Activity

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.

Nalwoodi Denzhone Center Workshop

Teri James teaching “Grow it, Try it, Like it”

Juan Arias and Mike Kim at SWIAA Workshop