THE DIVISION OF AGRICULTURE, LIFE & VETERINARY SCIENCES, &

Cooperative Extension

**Gila County Report 2019** 











**COUNTY COOPERATIVE EXTENSION** 





"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.

- 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

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#### From the Director: Rick Gibson

The Gila County Cooperative Extension, as a part of the University of Arizona Agriculture, Life and Veterinary Science and Cooperative Extension Division, is pleased to share with you this 2019 edition of our Gila County Annual Report and Plan of Work. Within its pages, we anticipate that you will find it with much interest as you read about our broad range of 2019 activities and accomplishments. We invite you also to review our 2020 Plan of Work. Perhaps you will find in it a project of interest to you. If so, we look forward to working with you on one of our future teams.

With an educational and research presence throughout the county, Cooperative Extension is well-placed and prepared to work with the residents of Gila County in their various communities and in rural areas.

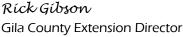
It is our unique mission to provide research-based information through education and research programs that help solve issues important to the county. It is our pleasure to work closely with residents, providers, and other stakeholders to meet those local needs.

Our work spreads across many disciplines, including community development, agriculture, families, consumer issues, health, youth development, and natural resources. Program topics include family

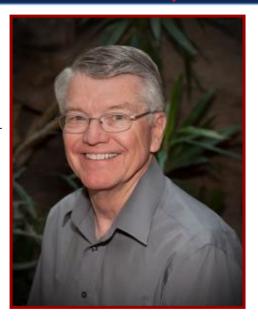


We appreciate and wish to thank the many people throughout the county, and in the San Carlos community, that have partnered with us to accomplish so much. We especially want to publicly thank our stakeholders, cooperators, advisory board members, and Gila County officials for their ongoing support. We could not do it without you.

Sincerely,







## Cooperative Extension Gila County Faculty & Staff

## **University of Arizona Cooperative Extension Gila County Faculty & Staff**

Juan Arias Assistant Agent, Agriculture and Natural Resources, FRTEP, 4-H, FTF, 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 Manager, Payson office

Christina Flores Program Coordinator, Positive Parenting

Rick Gibson Gila County Director

 Cate Gore
 Instructional Specialist, Financial Literacy, Positive Parenting, Globe office

 Ashley Hall
 Area Assistant Agent, Agriculture and Natural Resources, Gila & Pinal Counties

Jon Hatch Program Coordinator, 4-H, Payson office

Teri James Instructional Specialist, First Things First Nutrition, San Carlos office

Christopher Jones Agent, Horticulture / Environmental, Globe office

Roxanne McInturff Administrative Secretary, Globe office

Nicole Talkalai Secretary, San Carlos office, Developmental Sensory Screening

## **Visiting University of Arizona Faculty**

Hatti Braun, Area Assistant

Andrew Brischke, Area Assistant Agent, Ag & Natural Resources Mohave & Coconino

**Dr. Shane Burgess**, Vice President & Charles-Sander Dean

Bill Cook, Master Gardener Coordinator, Greenlee County Extension

**Dr. Michael Crimmins**, Climate Specialist, Department of Soil, Water, & Envir Science

Laura Crumbacher, Curatorial Specialist, U of A Herbarium

**Debbie Curley,** Extension Agent, Family Consumer & Health Sciences, Pima County

Dr. Del Despain, Research Specialist, Sr., School of Natural Resources and the Envir

Dr. Suzanne Eden, Assistant Director, Water Resources Research Center

Dr. Peter Ellsworth, Integrated Pest Management Extension Specialist, AZ Pest Mgt

Dr. Jeremy Elliott-Engel, Assoc. Dir., Az. Coop. Extension & State 4-H Prgm. Leader

Dr. Don Falk, Professor School of Natural Resources & Environment

Dr. Ed Franklin, Associate Professor, Department of Agricultural Education

Dr. George Frisvold, Extension Specialist: Agriculture Economics

Dr. Gregg Garfin, Associate Extension Specialist: Climate Science & Policy

**Dr. Elizabeth Greene,** Extension Specialist, Equine / Horse Professor

Mike Hauser, Extension Agent, 4-H Youth Development, Apache County

Julie Hasty, Program Coordinator Arizona Water Festivals Victoria Hermosilla, Water Resources Research Center

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 & Envir Sci

Kerry Schwartz, Program Director, Water Resources Research Center

Trent Teegerstrom, Assoc Director Tribal Extension Programs CALS

Dr. Russell Tronstad, Professor & Extension Specialist, Agricultural Resource Econo

Ashley Wright, Area Extension Agent, Livestock, Southeast Arizona

Or Jeremy Weiss, Research Scientist: School of Natural Resources and Environment

## **University of Arizona Gila County Boards & Tribal Council 2019**

#### **Board of Supervisors**

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

#### **Advisory Board**

Twila Cassadore Ben Dalmolin Marsha Fitzhugh Mike Henderson Fred Jiminez Dorine Prine Clark Richins

#### **San Carlos Tribal Council**

Terry Rambler
Tao Etpison
Velasquez Sneezy
Simon Hooke
Bernadette Goode
John Antonio Jr.
Fred Ferreira
Tribal Chairman
Vice Chairman
Gilson Wash
Gilson Wash
Seven Mile Wash
Peridot

Dr. John Bush
Allred Pike Jr.
Jonathan Kitcheyan
Ned Anderson Jr.
Belidot
Peridot
Bylas
Bylas
Bylas
Bylas



#### **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.

# Animal Science & Natural Resources Ashlev 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 Sate of Arizona with emphasis on private and state owned lands.

#### Environment & Sustainability Agriculture & Natural Resources

#### **Christopher Jones**

Extension 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**

#### Christina Flores / Teri James

Health Educator / Instructional Specialist

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.

#### **Family Consumer Health Sciences**

#### Ashley Dixon / Benjamin Downer

Assistant Agent / Program Coordinator

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.

#### Federally Recognized Tribal Extension Program

Juan Arias

Assistant Agent

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 Financial Literacy / Positive Discipline Cate Gore

Instructional Specialist

These positions are responsible for outreach and delivering of the Financial Literacy and Parenting curriculum with instruction workshops, events, activities, and evaluations throughout Gila County.

#### 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.

#### AmeriCorps—UACE Wildcat Corps

#### Tucker Guilliam / Taylor Barnes / Isaac Webb

4-H Youth Development / FCHS

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.

## Master Gardener / Horticultural Programs—Chris Jones

 Provided significant educational experiences to at least 295 clients through workshops, classes and guest speaker presentations open to the public.

#### San Carlos Gardening Class

- Mr. Jones offered an eight-week spring gardening class at the Nalwoodi Denzhone Community Center in San Carlos (17 enrolled, 12 were awarded certificates of participation).
- Chris taught classes in botany; composting; soil, water and plant relationships; and tree care. FRTEP Agent Juan Arias was closely involved and helps to manage a garden and greenhouses at the center. Evaluation comments included: "It's great to see that were are using our land to reestablish our connection and bring back our native plants."; "Classes were amazing very informative for beginners and applicable for families trying to start a small garden."

#### **Payson Master Gardeners Group**

- The Payson Master Gardener were active: For service hours they partnered with Shadow Rim Girl Scout camp to start a new garden and taught two half-day gardening sessions for scouts (6 girls/session); hosted 3 monthly community booths at the Payson Farmers' Market (6 volunteers, 20-30 participants per market); and maintained a demonstration garden at the Star Valley Community Garden (6 volunteers, weekly visits).
- Rich and Denise Johnson took the lead for the Payson Seed Library, organizing volunteers to stock and provide oversight for the library (2 MG volunteers, 10 other).
- Two students completed 50+ hours of service and will be awarded Master Gardener pins in 2020. Five volunteers reported a total of 220 hours in 2019.

#### **Payson Community Garden Support**

- Mr. Jones taught garden planning (with 30 participants), as part of a series of free, open-to-the-public, organic gardening classes.
- The garden had a heavy squash bug infestation and a massive failure episode of squash plants this summer. The agent assessed the problem onsite and shared samples with Extension pathologists Hattie Braun, Alex Hu and Judith Brown. Soil samples were analyzed. The garden will proceed with Extension recommendations for next year.

#### Other Efforts Delivered by Agent

 Mr. Jones delivered horticulture information and assistance through approximately 45 face-to-face, 40 phone calls and 35 email clients, including site visits to Whispering Hope Ranch, Payson and Globe.



Payson Community Garden Class

• Chris responded to various ash tree borer infestations in Globe. He developed a "mostly native" plant list for the Miami roadside beautification project. He presented in Payson about seed savings with Hattie Braun (50 participants); conducted an apple tree care seminar in Young (15 participants).

## Environment and Sustainability Programs—Chris Jones

Provided significant educational experiences at least 355 adult and 226 youth clientele in the county, state and nationally.

#### **Achieving Forest Health Symposium**

- Agent Jones organized and hosted the Achieving Forest Health Symposium in Payson.
- Presenters included Gila County Supervisor Tommie Martin and other elected officials, land managers, industry representatives, forest researchers and the Eastern Arizona Counties Organization.
- Sixty-five adult participants increased their awareness about forest health in Arizona, and challenges for forest products and biomass energy as a solution.
- We learned that APS proposed to re-design an old coal-powered energy plant outside of Holbrook to use forest biomass as fuel to produce electrical energy. The plant could create a market for tens of thousands of acres of forest to be thinned.
- The project would require APS to raise rates, however. In order to raise rates, APS would need the Arizona Corporation Commission (ACC) to require the plant to be opened. The APS' request failed by 2-3 ACC vote.
- Evaluation comments included: "We need to engage the community to support greater forest product removal"; and "Be more active in 4FRI (Four Forests Restoration Initiative)."

#### Forest Health / Firewise

• Agent Jones developed a Firewise plant list for the non-profit Pine-Strawberry Fuel Reduction's demonstration garden at the Pine Trailhead. Agent Jones published a peer-reviewed article titled "The Modern Wildfire Situation" in the Western Planner journal in January. With the article "The Modern Wildfire Situation", and efforts to raise awareness about the potential for a biomass industry to address the wildfire situation, he links economic development with environmental stewardship as a solution. (https://www.westernplanner.org/2019articles/2019/1/23/the-modern-wildfire-situation).

#### **Cobre Valley Watershed Partnership**

Gila County Cooperative Extension and Water Resources Research Center (WRRC) have collaborated with
community partners since 2015. The effort has culminated in the new non-profit Cobre Valley Watershed
Partnership (CVWP). Agent Jones is on the steering committee. The CVWP hosted the second Cobre Valley Small
Town Forum on Water in Globe (80 participants), and seeks collaborative approaches to challenges such as aging
infrastructure, inadequate storm water management, and water quality concerns.

#### **Youth Activities**

- Mr Jones conducts the FFA Forest Career Development Activity in Tucson with USFS partners (90 students). Agent Jones partnered with Globe-Miami schools and the community college to teach about climate change, forests, trees and forest health, for a total of 5 events (150 youth from junior high to college freshmen).
- He assisted the UA WaterFest at Copper Rim School in Globe. 35 community volunteers participated at this one-day event with nearly 360 local 4th grade students. Chris taught around 80 youth about watersheds.



Working with brands at Ag Daze

## Plan of Work — Chris Jones

#### **Environment and Sustainability**

- 1. Collaborate and participate in the new Cobre Valley Watershed Partnership and the Water Resources Research Center colleagues to address the regional water budget and other water related issues (throughout year).
- 2. Provide leadership for youth education through the FFA Career Development Activity held in Tucson (February) and assist Project WET WaterFest in Globe (May).
- Complete focus group research and report for the Climate Masters Outreach and Extension grant, funded by NIFA and partnering with NMSU (Spring).
- 4. Partner and work with Arizona Department of Forestry and Fire Management (ADFFM) and assist with developing a Fire Adapted Communities Network for Arizona (AZFAC) (throughout year).
- 5. Host a Virtual Learning Exchange in Payson and Pine as an AZFAC activity (April).
- 6. Partner with and assist ADFFM to offer at least one Firewise Assessor training event in Gila County (Fall).
- 7. Provide administrative oversight as grant PI and participate in the NAU biomass energy feasibility study to ship wood chips to South Korea as a forest health and wildfire solution (throughout year).
- 8. Partner with USDA Forest Service and Bullion Plaza Cultural Center to offer a set of public lands and natural resources focused presentations as part of a monthly Hardscrabble series. (Fall).



First Western Regional Meeting



**Squash Bugs** 



**UA Tree Ring Laboratory** 

#### **Home Horticulture**

- 1. Teach gardening course in Payson, Spring 2020.
- 2. Guide and support the new Payson Master Gardener group (throughout year).
- 3. Teach classes for the Payson Community Garden spring training series for the public and community gardeners (March-May).
- 4. Conduct at least one community gardening workshop in Payson (spring).
- 5. Support and assist success of the Project Harvest grant, environmental citizen science research in Globe-Miami, led by UA Dr. Monica Ramirez (throughout year).
- 6. Attend to public requests by phone and email and make house calls when deemed appropriate (throughout year).

## Natural Resources and Animal Science — Ashley Hall



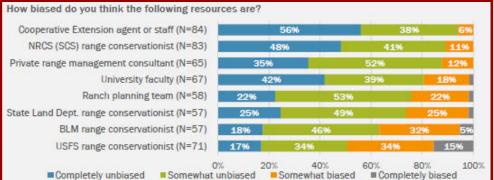
#### **Livestock Production and Range Management Programming**

Rangeland monitoring was completed in coordination with Tonto National Forest (TNF) seasonal employees and range management staff. Tonto NF and Tonto Natural Resource Conservation District contributed funding used to hire three contractors. Other outputs:

- Monitoring took place at 99 key areas across 26 allotments; including three allotments (12 new key areas) that had not previously participated.
- Each rancher and TNF range staff is given a technical report with a summary of all data collected.

In 2019, an evaluation of Arizona Cooperative Extension Monitoring Programs, including Gila County's was completed. US Forest Service (USFS) range management staff and ranchers were surveyed. Key findings from the

evaluation:



- 88% of ranchers said Extension services or information had increase their knowledge and understanding of rangeland monitoring.
- Ranchers viewed monitoring as essential for maintaining grazing permits on public lands and expressed they felt the future of their ranches
- Extension workshops were listed as a top source for information to improve ranching operations, second to information provided by other ranchers.
- Involvement with Extension is linked to the use of more monitoring methods.
- USFS Staff expressed high levels of trust in the expertise of local Extension Agents.

VGS, a rangeland monitoring software, is an integral piece of vegetation monitoring in Gila County. Ashley Hall works in collaboration with the developer Dr. Despain and other VGS development team members to:

- Provide training and support to San Juan-Grand Mesa-Uncompahgre-Gunnison National Forests (10 participants), Navajo Nation (21 participants), Kaibab-Prescott-Coconino National Forests (10 participants), Apache-Sitgreaves National Forest (9 participants), Agricultural Research Service (2 participants), and White Mountain Apache Tribe (5 participants).
- Beta test and provide feedback on new features of Version 5.0 during the 2019 monitoring season.

Provided educational workshops for livestock producers. These workshops reached 15 participants that had never attended an Extension event:

- Beginning Rancher Workshop: Range 101 38 participants, overall workshop rating 4.4/5. 40% of evaluations indicated a change in management practice based on knowledge gained at a prior workshop.
- Beginning Rancher Workshop: Funding Opportunities 17 participants, overall workshop rating 4.5/5.
- Hands-on Artificial Insemination (AI) Clinic limited to 15 participants, overall workshop rating 4.9/5. Participants rated their confidence to AI on their own as 3.7/5.



Beginning Rancher Workshop, San Carlos

## Natural Resources and Animal Science — Ashley Hall

#### **Youth Development Programming**

Ag Daze provides agriculture awareness to 4th grade students in Gila County by introducing them to agriculture topics such as cotton, dairy, mining, agriculture and health, farming, ranching, and range management (taught by A Hall).

- Lessons were provided to 422 students at Julia Randall, Lee Kornegay, Destiny, and Copper Rim Elementary Schools.
- After "Range Health" lesson, 60% of students were able to make the connection that plant health is directly related to cattle grazing on rangelands.
- 75% of students learned cattle grazing on rangelands become food the students parents will buy at the grocery.

Taught "Range Health" lesson to 29 youth at Land Daze organized by Juan Arias Assisted Renee Carstens at the Southern Gila County Fair by answering questions at Extension booth during the "School Day" where students from all Globe and Miami Schools attend fair and judged non-animal fair projects.

Acted as Co-Director for Natural Resource Conservation Workshop for Arizona Youth held annually at James 4H Camp for students in grades 8th - 12th.

• Taught plant identification, pressing and mounting for herbarium. Students had a 76% percent increase in knowledge on the topics presented.



Aq Daze Lesson

#### **Research Grants and Contracts**

Title Funding Agency-Sponsor		Total Funding	Funding Agency Type	
Developing a Statewide Baseline of Rangeland Forage Nutrition	Extension Strategic Initiative Program	\$6,400.00	Internal	
Rangeland Precipitation Monitoring Training Program for Ranchers and Land Managers	Extension Strategic Initiative Program	\$34,000.00	Internal	
A New Look at the Role of NEPA on Public Land Grazing Issues: A Multimedia Educational Program for Arizona Cooperative Extension Audiences	Extension Strategic Initiative Program	\$34,251.00	Internal	
Livestock Artificial Insemination Workshop and Bovine Simulator	Extension Strategic Initiative Program	\$35,500.00	Internal	
Developing Opportunities and Growing Business of Limited-Resource and Native American Beginning Farmers and Ranchers in Arizona	United States Department of Agriculture	\$48,000.00	Federal	
Risk Management Education for Arizona's Livestock, Dairy, Forage, and Tree Nut Producers	United States Department of Agriculture	\$9,999.00	Federal	
Reading the Range Technical Assistance	United States Forest Service	\$40,000.00	Federal	
Reading the Range Technical Assistance	Tonto Natural Resource Conservation District	\$30,000.00	State	

#### Scholarly Contributions, Awards, and Professional Development

- Provided presentations for 9 educational workshops in Gila County and throughout Arizona.
- One guest lecture at Arizona State University.
- Presented and/or provided content for 10 poster presentations at various national and state conferences.
- Lead author on 1 publication submitted to Journal of Extension and 1 Arizona Livestock Newsletter article.
- Co-author on 2 Extension bulletins.
- Learning Module Regional and State winner, National Finalist for Communication Award from the National. Association of County Agricultural Agents for VGS Tutorial Videos.
- 67.5 hours of professional development.
- Arizona Agriculture Extension Association President.
- Arizona Society for Range Management Secretary and Treasurer.

## Plan of Work — Ashley Hall

#### **Livestock Production and Rangeland Management**

- 1. Continue forage nutrient content research project. Target Date: Through 2022
- 2. Continue to organize twice a year Hands-on AI Clinics. Target Date: Ongoing
- 3. Continue to provide support and programming for Beginning Farmer/ Rancher Grant funded by USDA-NIFA. *Target Date: Through 2021*
- 4. Assist in VGS Trainings though out the southwest. Target Date: Ongoing
- 5. Complete Reading the Range data summary reports for 2019 monitoring and begin scheduling 2020 monitoring. *Target Date: June 2020*
- 6. Continue establishing monitoring sites on allotments not yet involved in Reading the Range (10 Allotments). *Target Date: Ongoing*
- 7. Contribute to Statewide Range and Livestock Quarterly Newsletter. *Target Date: Ongoing*

### **Youth Development**

- 1. Work with Renee Carstens to organize Agriculture Daze Awareness Program. Teach "rangeland Health" lesson to all 4th Grade Classes in Gila County. Target Date: April 2020
- 2. Organize the 56th annual Natural Resource Conservation Workshop or Arizona Youth to be held in July at Mingus Mountain 4H Camp. This year's topic Watershed Management *Target Date: July 2020*

#### Service

- 1. Board of Directors for Arizona Section, Society for Range Management.
- 2. President of Arizona Agriculture Extension Association.
- 3. Participate in local NRCD meetings.
- 4. Provide programming update at Board of Supervisors Meeting.
- 5. Present on programming at local and National conferences.
- 6. Applying for Project CENTRL, a yearlong Agriculture Leadership Course.
- 7. Submit Extension Bulletins and Journal Articles for Peer Review.



Hopi Tribe VGS Training



Co Laboring at Ag Daze



**Incoming Storm** 

## FCHS \* Family Engagement Programs — Ashley Dixon

#### **Financial Literacy**

24 lessons of *Building Financial Security for Self, Family and Community* were held across 7 series.

- Offered a single session or 4 part series on; "Where does your money go" (WDY\$G?) with 27 participants.
- In first 6 months of program, the following was accomplished.
  - 6 classes of "Where does your money go", (WDY\$G?) with 27 participants.
  - 100% of respondents reported; "They will think differently about how they manage their money" and, "They could have more, if they made different spending choices."



**Financial Literacy Graduates** 

#### **Positive Discipline**

- Positive Discipline Workshops empower and educate parents/caregivers, giving them the tools to bridge communication gaps, win cooperation at home and school, defuse power struggles and communicate a message of love to their families.
- This program has also been found to improve adult communication and relationship skills.
- 5 program participants in Gila County thus far; currently, a new series has begun with 11 already enrolled.



#### **Developmental and Sensory Screening, Gila**

In 2019 this program provided the following:

- 434 Vision screenings on children between the ages of 1 5 years of age
- 444 Hearing screenings on children between the ages of 1 5 years of age
- 159 ASQ3 screenings on children between the ages of 0 5 years of age
- 131 Children received referrals after screenings were completed

AzEIP and School Districts report earlier detection of developmental delays and implementation of intervention services, help in preparing for kindergarten readiness.

Using OAE on child

#### **Developmental and Sensory Screenings, San Carlos**

In 2019 this program provided the following:

- 298 Vision screening on children between the ages of 1 5 years of age.
- 337 Hearing screenings on children between the ages of 1 5 years of age.
- 146 ASQ3 screenings on children between the ages of 0 5 years of age.
- 79 Children received referrals after screenings were completed.

Number of referrals are decreasing as parents are getting the services their children need, hence the number of identifiable possible issues is decreasing.

## Early Literacy Program, San Carlos

- Funded in August 2019, Cooperative Extension received a federal grant from Children, Youth and Families At-Risk (CYFAR) in the amount of \$640,000 to be distributed over 5 years.
- Focused on providing early literacy programs (with culturally and native language components) to families with children 0-6 years old across two tribal reservations: Navajo Nation and San Carlos Apache communities.
- Currently creating drop-in lessons that will begin in August, and building an Advisory Board in San Carlos to guide and inform next steps of this program.



Happy pre-kindergartener with new glasses

## FCHS \* Health and Wellness Programs — Ashley Dixon

#### Nutrition, Obesity and Physical Activity (NOPA; San Carlos)

Splits this project with FRTEP Assistant Agent Arias housed in San Carlos. In 2019 this program provided the following:

- 171 parents/caregivers participated in at least 1 session of Eating Smart, Being Active.
- 59 parents/caregivers completed the entire Eating Smart, Being Active curriculum.
- 340 children were reached through programming Grow It, Like It, Try It!
- 57 childcare providers completed the 5 session series of Healthy Kids, Healthy Future (62 additional providers began a new series in October 2019).
- 15+ gardens were planted and/or maintained during this year.



**NOPA Excercises** 

#### Child Care Health Consultation (CCHC), Gila Region

In 2019 this program provided the following to 5 Gila child care sites:

- 44 total interactions with sites.
- 25 in person visits to sites.
- 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. proper disposal of trash, car seat safety, nutrition, hand washing, locks, hydration, etc.).

#### First Smiles (Oral Health) Gila Region

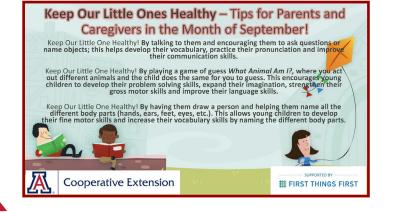
- 384 0-5 year olds received oral health screenings.
- 248 had fluoride varnish applied.
- 20+ group classes were held about the importance of dental health and brushing teeth, including a book reading to the younger children.
- 20 expecting mothers received education on the importance of dental health while pregnant and with their new borns.

#### Ag Daze

- Done in collaboration with Gila County 4H Agent and Range Monitoring Agent.
- 15 "Agriculture and Our Health" lessons taught over 400 youth at Julia Randall Elementary (Payson, AZ), Lee Kornegay Elementary School (Miami, AZ), Destiny School (Globe, AZ), and Copper Rim Elementary School (Globe, AZ). One-on-one interactions with students took place at H4 Ranch.
- "Agriculture and Our Health" lesson includes discussing where our food comes from, what we need to survive (i.e. healthy foods, water, physical activity, etc.), identifying different parts of plants and discussing foods we eat from the different parts of the plant; including roots, leaves, stems, fruits, flowers, and seeds.



**Oral Health Screening** 



## Plan of Work — Ashley Dixon

#### **Family and Community Engagement**

- Developmental, Sensory and Screening (DSS, Gila Region)
  - \* Increase number of children 0-5 years old screened by at least 300 children in First Things First Gila Region for vision and hearing, as well as 100 children for developmental.
  - \* Identify children who need referrals, make appropriate referrals when needed and primary care givers will take their children to their medical home when screening indicates it is appropriate.
  - \* Work towards improving access to early intervention for vision, hearing, and developmental health issues for young children.
  - \* Renew First Things First (FTF) annual grant: \$43,750.
- Developmental, Sensory and Screening (DSS; San Carlos Apache Region)
  - \* Increase number of children 0-5 years old screened by at least 250 children in First Things First San Carlos Apache Region for vision and hearing, as well as 100 children for developmental.
  - \* Participate in at least 20 community educational programs on San Carlos Apache tribal lands to share the importance of early screening and detection.
  - \* Identify children who need referrals, make appropriate referrals when needed and primary care givers will take their children to their medical home when screening indicates it is appropriate.
  - \* Renew First Things First (FTF) annual grant: \$116,000.
- Positive Discipline (Parenting) Program
  - \* Increase the number of parents or caregivers in Gila County receiving parenting focused education by 25 through improving communication and understanding.
  - \* Increase parent and caregiver knowledge and skills to more effectively deal with their child's behavior; 75% of participants will demonstrate understanding of statements regarding skill and knowledge.
  - \* At least twenty-five (25%) of the participants will demonstrate the use of positive disciple techniques when compared to harsh or corporal punishment; demonstrate an increase of 25% of the numbers of behaviors parents view as strengths.
  - \* Searching for additional funding and awaiting 1 grant submission.
- Financial Literacy Program
  - \* Increase the number of adults by at least 45 in Gila County who attend and receive financial literacy programming.
  - \* Change 75% of respondent's minds about how they think about money.
  - \* Increase adult knowledge and skills to more effectively in dealing with their finances, at least 50% of participants will demonstrate understanding of at least one financial literacy concept regarding skill and knowledge.
  - \* Awaiting 2 grant submissions.
- Children, Youth and Families At Risk (CYFAR) Early Literacy Program San Carlos
  - \* Focus on gaining tribal approval and a resolution
  - Use majority of first year as planning year and creating Advisory Board
  - \* Create Drop in lessons
  - Hire and begin implementation of drop in early literacy program
  - \* Total grant funds for 5 years: \$640,000



VP/ Dean Shane Burgess visits Gila County

## Plan of Work Continued.. — Ashley Dixon

#### Health, Wellness and Healthy Living

- Oral Health
  - \* Increase number of children 0-5 years old screened for oral health and provide fluoride varnish in at least 200 children, 0-5 years old.
  - \* Educate at least 200 children on the importance of dental health as well as provide health promotion, screening, referral and navigation for 20 expectant mothers in Gila County.
  - \* Renew First Things First (FTF) annual grant \$36,000.
- Child Care Health Consultant (CCHC)
  - \* Increase the number of visits focused on improving quality of child care particularly surrounding health and wellness of both providers and those for whom they care (12 minimal visits in 2020).
  - \* Make changes in child care settings to improve health, wellness and safety of care, changes in provider knowledge and skills, will maintain, work towards, or receive higher than 3 star rating from Quality First in all 6 early child care sites in Gila Region.
  - \* Continue to oversee and supervise CCHC staff in 3 Counties: Gila, Yuma, and Pinal (Including Gila River Tribal lands).
  - \* Renew First Things First (FTF) annual grant: \$179,200.
- Nutrition, Obesity and Physical Activity (NOPA San Carlos Apache, in partnership with FRTEP Agent, Juan Arias).
  - \* Expand number of participants receiving nutrition education—deliver nutrition programming series about healthy eating and physical activity to, (at least); 50 parents, 300 children, and train at least 30 ChildCare Professionals about incorporating healthy /safety standards into their classroom (family style meals, daily physical activities, reducing juice consumption, sun safety, etc.
  - \* Maintain at least 10 active gardens for community participation in growing native plants/produce.
  - \* Renew First Thing First (FTF) grant: \$100,000.
- Ag Daze
  - \* Deliver programming in collaboration with A. Hall and R. Carstens.
  - \* FCHS lesson, "Agriculture and Our Health" will be delivered to at least 300 children throughout Gila County.
  - \* Seventy five percent of participating youth will increase their knowledge and understanding of natural resources by 40%.
- Gila wide Nutrition Programming
  - \* Create implementation plan.
  - \* Develop collaborations, partnerships, etc.
  - \* Submit grant for funding: \$150,000.

#### Service / Publications

- \* Lead statewide Financial Literacy Workgroup (9 Counties represented).
- \* Serve as member on 5 additional statewide working groups (e.g. school readiness, breastfeeding training, reducing screen time, etc.
- \* Serve as Co-Editor for NEAFCS Journal.
- \* Serve as VP of Member Resources for our state association & committee member at national association.
- \* Continue to attend community based meetings, networks, collaboration, etc.
- \* Work with state and national colleagues to write, present, and publish on a variety of topics (8-12 throughout the year).



Teaching Healthy Habits

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## Tribal Extension Programs in San Carlos Continued...

#### **Tribal Extension Program San Carlos**

- Juan Arias is the Federally Recognized Tribal Extension Agent for San Carlos Apache Tribe. This position works specifically for San Carlos Region 100% of USDA Funding implemented on Tribal Land. The Federally Recognized Tribal Extension Program supports Native American farmers, ranchers, and youth through community outreach and practical programming.
- Implemented Extension Strategic Initiative Program to increase youth development activities, and Livestock/Equine services.
- Continued with First Things First program, Nutrition, Obesity and Physical Activity, (NOPA), an early childhood gardening/nutrition activities in partnership with Assistant Agent, Ashley Dixon, and Instructional Assistant, Teri James.
- Assisted Nalwoodi Dezhone Life Center in implementing to deliver three Rural Business Development Grant workshops, and two working group meetings facilities establish a local commercial kitchen.



Juan Arias promoted to Assistant Agent with his Masters in Ag

• Continued relationships with tribal entities at a personal level through programming, reaching early childhood departments, agriculture and natural resources, livestock cattle associations, school districts. Participated in tribal committees such as Integrated Resource Management Program (IRMP).

#### **First Things First NOPA**

- Nutrition—the proposed program provides research evidence-based educational sessions in nutrition, physical
  activity, and resources for healthy eating. Education sessions offered to children 0-5 in a childcare center, home
  groups, and or schools. Also, courses themed around a garden giving access to fruit and vegetables at locations
  for food sustainability and healthy eating.
- A partnership between FCHS Agent Dixon and FRTEP Agent, Juan Arias.
- 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.
- Throughout the implementation of the programs, 10 locations that consisted of 21 classrooms/or work site, 287 children unduplicated, and 20 educators reached using evidence-based curricula Grow It, Try It, like it! Teri James Instructional Specialist provided education throughout the community to reach children and educators.



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.

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Teaching Grow It, Try It, Like It

## Tribal Extension Programs in San Carlos—Juan Arias

#### **FRTEP Youth Development**

- Extension youth development/4-H programs in San Carlos Apache Tribe, provided educational opportunities and programming on several locations within the tribe.
- The program offered by extension includes reaching youth through a series of
  enrichment activities, including plant needs, planting, composting, pest
  management, permaculture, nutrition, native plants, and MyPlate resources.
  Evidence-based curricula Junior master gardener,4-H, UC Santa Cruz Teaching
  Organic Gardening and Farming along with Extension resources to reach youth.
- Through the implementation of educational sessions using Junior Master Gardener/ UC Santa Cruz Organic Farming curricula, 245 youth were reached in 6 locations. Youth participated in sessions that included; plant needs, composting, soil, pest control, harvesting, MyPlate, planting, thriving garden, plant parts, and cool-season and warm-season plants.



4-H in San Carlos

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- Implemented Extension Strategic Initiative Program to leverage funding and workshops in areas of Youth Development. Funded \$22, 418.
- 4-H/Youth development: encourage youth to be part of local programs that include gardening, archery, Stem, and healthy living activities.
- Enrolled one 4-H leader that facilitates at least 16 sessions implementing Junior Master Gardener activities/healthy living activities in 2019. 4-H leaders service are estimated at a value of \$24.51/hr. for \$784.32.
- 42 youth unduplicated, reached through 4-H club activities that included shooting sports, animal science, horticulture, healthy living and STEM.
- 81 youth reached through educational sessions promoting agriculture and Natural sources careers to support further and
  expand Tribal Extension Program. Kindergarten, Elementary, Middle, and High School students participated in events on
  different days. An event called Land Daze, Land youth participate in a series of topics to learn about dairy, range,
  comporting (vermicomposting), poultry, archery, and Stem. It is an event that encourages youth to learn about agriculture
  and specialist within the community.

#### **FRTEP Agriculture and Natural Resources**

- The program proposed agriculture & natural resources include expanding resources in record keeping, equine, livestock, beef quality assurance, horticulture, animal science, and develop resources by applying to grants. Programs support San Carlos Cattle associations, forestry, and Tribal farms partnership and critical leaders. Partners in expanding programs include Trent Teegerstrom, Russ Tronstad, Betsy Greene, Ashley Hall, Ashley Wright, specialist, and FRTEP tribal extension staff.
- Resulted in connections with local leaders that included the Bureau of Indian Affairs (BIA), tribal cattle associations,
   Natural Resource Conservations Service (NRCS), San Carlos Forestry and local livestock owners to address issues, provide services, and program implementation.
- Participated in Integrated Resource Management Project that promotes and describes land management projects in the San Carlos community
- Collaborated with Gila county agent Chris Jones to provide Master Gardner short series and trained and encourage
  horticulture activities in San Carlos. A seven-week class to train community members with local plant methods and
  traditional seed saving. Reached 17 community members graduating 12 participants in San Carlos Apache Tribe
- Collaborated with local non-profit <u>Nalwoodi Dezhone</u> to implement programs funded by the USDA garden program.
   Reached seven families provided access to education garden resources and education Implemented Extension Strategic
   Initiative Program to leverage funding and workshops in areas of livestock/equine.
- Collaborated with Econ Specialist/Tribal director Trent Teegerstrom and Agent Grey Ferall to provide resources workshop topics included beef quality assurance, heard health, feral horse, and emergency management plan. Reached 17 ranchers and 12 were certified with Beef Quality Assurance.

## Plan of Work — Juan Arias

#### **Agriculture Natural Resources**

- 1. Provide resource book with a series of extension topics/forms for operations of cattle associations and community members by December 2020.
- 2. Identify locations /collaborators to assist in training rancher/farmers in areas of vaccines, record keeping, beef quality assurance, biosecurity, branding, marketing, tagging management plan, heifer, calf and equine topics
- 3. Work with local veterinarians to establish a series of workshops to reintroduce Equine services to educate and promote Extension
- 4. Develop APHIS plant Id posters for San Carlos Apache tribe with partners
- 5. Work with partners to develop a food hub/farm and or business plan to establish a small farm operation. December 2021
- 6. Work with partners to establish a farm to hospital project introducing native plants and fresh produce to patients at the San Carlos Hospital.



Sand Colic Testing Equine

- 7. Continue to work with Forestry to reintroduce traditional gardens and resource in the community .
- 8. Continue to establish relationships/partnerships to promote Extension programs in San Carlos

#### **Youth Development**

- 1. Continue youth practicum/land daze to promote agriculture and natural resources careers
- 2. Continue to promote, outreach and expand 4h/t youth development programs in San Carlos
- 3. Continue Junior Master Gardener activities with partners and promote youth development
- 4. Continue to Grow It, Try It, Like gardening activities with early childhood care centers
- 5. Partner with veterinarians to promote 4-H vet projects, December 2020



Archery

#### **Service**

- 1. Participate in Cattle Associations/NRCS board meetings
- 2. Participate in Integrated Resource Management Planning Team, for project development
- 3. Participate in Health collaborative meetings and committees to promote Extension





Seed Saving

## 4-H Youth Development Programs—Renee Carstens

Gila County 4-H provides youth opportunities to gain an edge for life success by offering numerous activities to develop leadership, responsibility, citizenship and other life skills. 4-H helps develop competent, caring and actively engaged youth through our research-based curriculum and university resources. 4-H opens a world of possibilities to youth who want to explore their interests — from traditional livestock projects to STEM (Science, technology, Engineering and Mathematics) and to gardening, dog care, kayaking and horses, or to any project youth can imagine.

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#### **2019 Programming**

- 4-H Membership in Gila County 197 Youth and 32 Adult Volunteers.
- Coordinate Agriculture Days Awareness Program with Ashley Hall. Teach Introduction to Arizona Agriculture and participated in the Ag Daze Program at the H-4 Ranch in Tonto Basin. Schools in attendance were Julia Randall Elementary School (Payson), Lee Kornegay Elementary (Miami), Destiny School (Globe), and Copper Rim Elementary (Globe).
- Walmart Foundation 4-H Healthy Habits Program offered to classes at Copper Rim Elementary and in San Carlos. Forty-five youth completed six Choose Health: Food, Fun and Fitness (CHFFF) lessons.
- Trainer for YQCA. Offering course throughout Gila County.
- Staff at AZ Summit and Youniversity. Expanding 4-H STEM opportunities and career exploration to middle school and high school youth.
- Advisor to Gila County Fair Livestock Committee.
- Collaborate with Arizona National Livestock Show (ANLS) staff to offer Skill-a-thon competition. Compile materials, design assessment for each category, assisted with set up, scoring and organization for livestock knowledge based competition.
- Continue to link Northern, Central and Southern Gila County 4-H programs. Expand opportunities for volunteers, leaders, youth and families to gather, collaborate and learn together by attend events, trainings and 4-H planning sessions.
- Create opportunities for inclusion to serve harder to reach youth. Increase of youth membership by 10%
- Continued to implement Freeport McMoRan Foundation Mentoring Youth in Globe Miami Grant to support
  youth from Globe and Miami Unified School Districts overcome barriers as they work towards graduation and
  developing life skills to influence future success.

## AmeriCorps

Members commit their time to address critical community needs like increasing academic achievement, mentoring youth, fighting poverty, sustaining national parks, preparing for disasters, and more.





## 4-H Youth Development Programs Continued...

#### **Mentor Program**

- This past year, the Mentor Program at Globe High School continued to operate weekly after school meetings between students and mentors.
- Students and their families were also invited to monthly Family Night Out events. These events were held in the
  Globe High School auditorium and focused on providing family growth and connection. Dinner was provided so
  that families could eat together and then engage in activities focused on specific family values such as; building
  trust, improving communication, and working together.
- An average of five to six families attended Family Night Out events. One Family Night Out event was hosted at the San Carlos High School, with five families participating.

#### **State Level Youth Development**

- Was co-coordinator of 4-H State Dog Show with Ashley Jeffers-Sample (Greenlee County 4-H).
- Assisted with JOLT Youth Leadership Camp.
- National 4-H Conference Planning Committee member. Planned selection process, and assisted with creating a rubric system for scoring submissions from potential delegates.
- Chaperoned 4-H Arizona delegates on trip to Washington D.C.
- Member of Search Committee for Executive Director for the 4-H Youth Foundation.

#### **Service**

- President Elected for AAE4-HA (Arizona Association of Extension 4-H Agents).
- Member of NAE4-HYDP (National Association of Extension 4-H Youth Development Professionals).



4-H Group that went to Washington DC













Gila 4-H Facebook sites:

Southern 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/

## Plan of Work — Renee Carstens

#### **Gila County 4-H Youth Development**

- 1. Member of Search Committee for Executive Director for 4-H Youth Foundation Target Date: Spring 2020.
- 2. Coordinate Agriculture Days Awareness Program with Ashley Hall. Teach **Introduction to Arizona Agriculture** to Gila County Schools. *Target Date: April 2020*.
- 3. National 4-h Conference Planning Committee. Plan selection process, and assist with creating rubric system for scoring submissions from potential delegates. Chaperoned Arizona delegates on trip to Washington D.C. *Target Date: April 2020*.
- 4. Oversee Healthy Living Program with Juan Arias. Offered at Copper Rim Elementary School and in San Carlos. *Target Date: May 2020.*
- 5. Trainer for YQCA. Offering course throughout Gila County. Target Date: July 1, 2020.
- 6. Staff at AZ Summit and Youniversity. Expanding 4-H STEM opportunities and career exploration to middle school and high school youth. *Target Date: June, 2020.*
- 7. Advisor to Gila County Fair Livestock Committee. Target Date: September 2020.
- 8. Collaborate ANLS (Arizona National Livestock Show) staff to offer Skill-a-thon competition. Compile materials, design assessment for each category, assisted with set up, scoring and organization for livestock knowledge based competition.
- Co-PI for Arizona 4-H Mentoring Program (4-H NMP10) Office of Juvenile Justice and Delinquency Prevention// National 4-H Council. After school mentor programs offered at Miami School District and Payson Community School. *Target Date: Feb. 2021*.
- 10. Continue to unite Northern, Central and Southern Gila County 4-H programs. Offer opportunities for volunteers, leaders, youth and families to gather, collaborate and learn together by attend events, trainings and 4-H planning sessions. *Target Date: Ongoing*.
- 11. Create opportunities for inclusion to serve harder to reach youth. Increase of youth membership by 10%.

#### State Level Youth Development

- 1. Co-coordinate for 4-H State Dog Show with Ashley Jeffers-Sample (Greenlee County 4-H). *Target Date: Feb 2020*.
- 2. Assist with JOLT Youth Leadership Camp. *Target Date: July 2020*.

#### Service

- 1. President Elect AAE4-HA (Arizona Association of Extension 4-H Agents).
- 2. Member NAE4-HYDP (National Association of Extension 4-H Youth Development Professionals).





Ag Daze Petting Zoo

# 2019 Grants and Donations Awarded or Continuing

Funder	Amount	Purpose	
Tractor Supply Company	\$1,476	Southern & Northern Gila County Clover Campaign	
Valley of the Sun Freeport United Way	23,095	Southern Gila County 4-H	
United Fund of Globe-Miami	12,000	Southern Gila County 4-H	
Proceeds from Old Fashioned Fair Night (for Youth Scholarship)	6,001	Southern Gila County 4-H	
ESIP Building Bridges Gila County	44,415	Mentor Program in Globe, Miami & San Carlos	
Charley, Katherine, Rebekah Revocable Living Trust	55,000	Gila County 4-H	
ESIP Expanding 4-H STEM Opportunities & Career Exploration	135,000	Ego Robotics—introducing 4-H members to marketable skills such as coding, design, programming, teamwork and innovation required at today's employers & colleges	
Extension Strategic Initiative Program	6,400	Developing a Statewide Baseline of Rangeland Forage Nutritio	
Extension Strategic Initiative Program	35,500	Livestock Artificial Insemination Workshop & Bovine stimulator	
Extension Strategic Initiative Program	34,000	Rangeland Precipitation Monitoring Training Program for Ranchers and Land Managers	
Extension Strategic Initiative Program	34,251	A New Look at the Role of NEPA on Public Land Grazing Issues: A multimedia Educational Program for Arizona Cooperative Extension Audience	
Tonto Natural Resource Conservation District	30,000	Reading the Range Technical Assistance	
U. S. Forest Service	40,000	Reading the Range Technical Assistance	
United States Department of Agriculture	48,000	Developing opportunities and growing businesses of limited- resource & Native American Beginning Farmers & Ranchers in AZ	
United States Department of Agriculture	\$9,999	Risk Management Education for AZ's Livestock, Dairy, Forage, and Tree Nut Producers	
USDA Agricultural Marketing Service Federal-State Marketing Improvement Program	98,301	Identification of Opportunities and Barriers for Arizona to Supply Wood Fiber to South Korean Renewable Energy Markets	
Bureau of Reclamation/Water Resources Research Center	29,243	Building Water Scenarios to Support Community Planning in Rural Arizona Through Collaborative Stakeholder Engagement Process Design	
		Continued on next page	

# Continued from last page

Funder	Amount	Purpose
Bureau of Reclamation	12,540	Stakeholder-Driven Water Supply and Demand Analysis as a Foundation for Collaborative Planning in Cobre Valley, AZ
United States Dept. of Agriculture New Mexico State University	22,208	Climate Change: Climate Masters Outreach and Extension Agency
First Things First (FTF)	13,400	Child Care Health Consultant
First Things First (FTF) Gila Region	43,750	Early Developmental and Sensory Screening
First Thing Firs (FTF) Gila Region	36,000	Oral Health
University of Arizona, Extension Strategic Investment Program (ESIP)	44,415	Building Bridges Gila County
University of Arizona, Extension Strategic Investment Program (ESIP)	13,655	Improving Parents' Ability to Understand and Manage Child Behavior (6 AZ Counties)
University of Arizona, Extension Strategic Investment Program (ESIP)	22,924	Helping AZ Families Through Financial Literacy Education
First Things First (FTF) San Carlos Apache Region	116,000	Early Developmental and Sensory Screening
First Things First (FTF) San Carlos Apache Region	100,000	San Carlos Nutrition, Obesity, & Physical Activity (NOPA)
United States Department of Agriculture (USDA) Children, Youth and Families at Risk (CYFAR)	46,448	University of Arizona Cooperative Extension Sustainable Community Project to Promote Early Language and Literacy Development in Native Communities (San Carlos Apache Tribe and Navajo Nation)
University of Arizona, Extension Strategic Investment Program (ESIP)	3,000	Improving Parents' Ability to Understand and Manage Child Behavior (6 AZ Counties)
University of Arizona, Extension Strategic Investment Program (ESIP)	23,224	Connecting intergenerational FamiliesEarly Literacy Knowledge (San Carlos Apache Lands
University of Arizona, Extension Strategic Investment Program (ESIP)	22,178	Partnership with Tribal for San Carlos Range, Livestock, Nutrition, Horticulture and Stem
University of Arizona, Extension Strategic Investment Program (ESIP)	15,418	Workshops, equipment for San Carlos Ranchers / Farmers
United States Dept. of Agriculture (USDA)	87,327	Federally Recognized Tribal Extension Programs (FRTEP)
Total	1,265,168	

These values do not represent office space and utilities provided by Gila County and the San Carlos Apache Tribe.

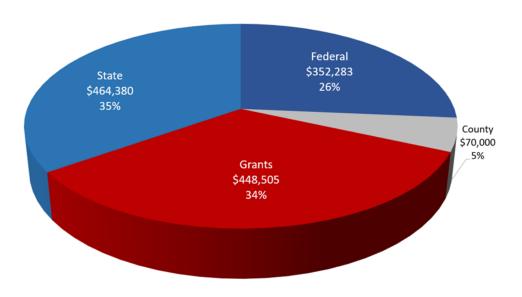
State funds from state appropriations to University of Arizona College of Agriculture.

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

Grants are listed on the proceeding pages.

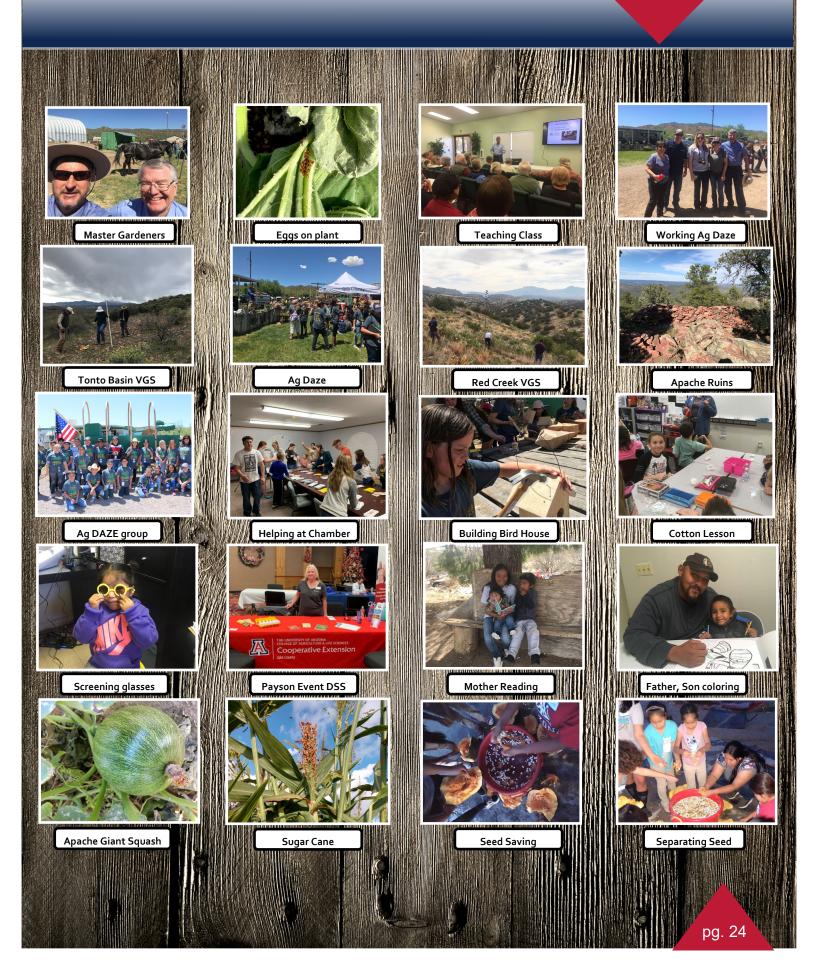
USDA funds provided specifically to support Extension Agent for the San Carlos Apache Reservation.

## **Donations and Grants**



- The Federal dollars received are devoted completely to faculty salaries.
- The State dollars also pay salaries, but a portion also supports some travel and operations expenses.
- The Gila County portion of the financial partnership supports mainly the in-county travel expenses of Extension faculty and staff and some staff salaries.
- The Grant dollars, comprising the second largest component of Gila County Cooperative Extension's total budget, is made possible because of the continuing support of the permanent funding agencies.

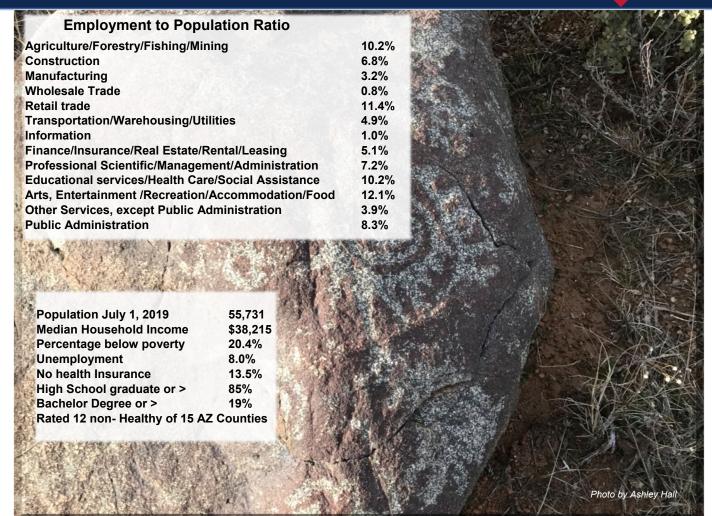
This partnership has supported the efforts of faculty to request and receive well over \$400,000 in outside funds, most of which pay the salaries of local people (8.5 FTE) and support local businesses in Gila County. With other grant opportunities pending, it may well be that this figure will continue to climb. The travel and operations dollars provided by Gila County are absolutely essential to the overall success of Cooperative Extension, including its delivery of programs throughout the County and the leveraging of funding from multiple sources. The Gila County Cooperative Extension faculty and staff are grateful to the Board of Supervisors and to the people of Gila County for their continuing support.

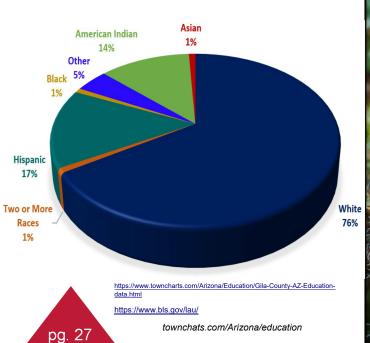






## Gila County Demographics 2015—2019









Gila County Extension Staff





Thuy Bishop and Ben Downer working in San Carlos

AmeriCorp: Isaac Webb, Tucker Guilliam, Taylor Barnes



Roosevelt Dam



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