COVER PHOTO: Looking toward Payson from the Mazatal Wilderness. Photo by Jim Sprinkle.
The following pages describe the work of the Gila County Faculty. Faculty implement programs that are planned and conducted in response to needs assessments accomplished through surveys, interviews and discussions with Advisory Boards, County Supervisors, county residents, San Carlos Apache Tribal organizations and Tribal members. In addition to the planned programming efforts of Extension Faculty, a large amount of time is devoted to assisting county residents with specific questions. Volunteers are an integral part of Gila County Extension programming.

Gila County Cooperative Extension has offices in three locations. If you have questions or would like additional information, please contact us:

Gila County Cooperative Extension Offices:
Payson: (928) 474-4160
Globe: (928) 402-8585
San Carlos: (928) 475-2350

GILA COUNTY COOPERATIVE EXTENSION
FACULTY AND STAFF

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Globe Office

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GILA COUNTY COOPERATIVE EXTENSION ADVISORY BOARD 2014

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The mission of Arizona Cooperative Extension is to engage people through applied research and education to improve lives, families, communities and the environment in Arizona and beyond.
Passage of the Smith-Lever Act by Congress in 1914 officially established the Cooperative Extension Service. The Act provided states with federal funds to carry out Extension work as agreed upon by the respective land-grant colleges and the federal government.

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

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 The enactment of Arizona Senate Bill #179 in 1964 repealed the 1921 legislation.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

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

In 1991, Congress established the Extension Indian Reservation Program (EIRP) under section 1677 of P.L. 101-624, the Food, Agriculture and Trade Act ("Farm Bill"), which reinstated federal support for extension programs on Indian Reservations. Currently, there are 31 projects on 29 reservations, one of which is on the San Carlos Apache Reservation. Federally Recognized Tribal Extension Program (FRTEP) Extension Agents are employees of the 1862 land grant Cooperative Extension Program, although funding is through the federal Extension branch, National Institute of Food and Agriculture.
On May 8, 2014, the 100 year anniversary of Cooperative Extension was celebrated. The Smith Lever Act, also referred to as the “Agriculture Extension Act,” was signed into law by President Woodrow Wilson on May 8, 1914. The goal of this legislation was to extend the knowledge and research generated by the land-grant universities and research stations to the general population. With this legislation, windows to the University were opened in every county for agricultural, family, and youth education (4-H is one of our most prominent examples). Funding has been provided from both federal, state, and county resources in this Cooperative effort. From its earliest beginning in Arizona, Cooperative Extension has been bringing science into the lives of people to improve agricultural production and to better the lives of families and communities. We have also extended ideas and priorities from the counties we serve back to the University of Arizona College of Agriculture and Life Sciences and to the Arizona Experiment Stations for consideration for instruction and research. Within this rich history of cooperative education, many partners have been integral to the success of our efforts. Formal recognition of 140 people who made significant contributions to Arizona agriculture, families, and communities over the last 100 years has been made at centennial celebrations around the state.

Lori Brown

Lori Brown was a stellar member of 4-H in Gila County as a youth and is now a key volunteer leader. Her willingness to serve and meet the needs of the children in her clubs has led to various projects being housed at her home. She recognizes the needs of her members and helps them to gain financial assistance for their projects but most importantly gain confidence in themselves. Mrs. Brown was instrumental in developing the highly popular Agriculture Awareness program that is taught annually throughout Gila County. The program culminates with a field trip for all participants to the Brown Family’s H-4 Ranch where the youth participate in ‘hands-on” activities to reinforce their knowledge of Agriculture. Each year, the Brown family donates countless hours making sure that the Northern Gila County Fair is a success. Lori makes sure to bring at least twenty various animals for the petting zoo. With approximately one thousand children in attendance at the school kids’ day the petting
zoo is a popular attraction. Lori also provides horse drawn wagon rides for each and every child that attends. She serves on various boards and committees throughout the county that focus on positive use of resources. She has been involved in receiving grants for not only youth programs but the integration of solar projects on various ranches.

Kenny J. Evans

Starting as a farm worker, Mr. Evans assembled one of the largest family farming and agriculture enterprises in the country before his retirement in 1997. An author, inventor and educator, Evans has appeared as an expert witness at the state capital and in Washington D.C. more than three dozen times. He is a nationally recognized expert on the subjects of western water and the use of technology to minimize negative impacts of traditional farming on the environment. His farming enterprise was recognized by both farm and environmental groups for wise stewardship and conservation of water and other resources. Mr. Evans served at the State Cabinet level under several Arizona governors. He has accumulated many years of service on the Board or as an officer of many diverse public and private corporations. In addition to serving the past 6 years as the Mayor of Payson, Mr. Evans is currently President of the largest Non-Profit in the region and serves on the Board of our local Hospital. He also serves on the Executive Committee of the Arizona League of Cities & Towns, the State Municipal Tax Code Commission and the state Bioscience Steering Committee and on the County Extension Board. He has been instrumental in starting or promoting the Community Health & Care Fair, the Women’s Wellness Forum, the Payson Area Food Drive; the Payson Community Garden; and in bringing a Dialysis Center to Payson. He continues to work tirelessly to bring a four year University to Payson. He has brought many jobs and over $10 million in grants to the community. He has secured a permanent, sustainable water supply for the Town and has negotiated a global water settlement agreement with the Tonto Apache Tribe. From migrant farm worker to corporate executive, he has been blessed and privileged to live the American dream. He never forgets his humble beginnings nor fails to give credit to God for the blessings he has received.
Mr. David Cook

David and his wife Diana started a hay business in the 1990's, and in 2000, David started DC Cattle Company LLC. David is deeply involved in the cattle industry as the Past President of the Gila County Cattle Growers. He is an Arizona delegate to the Public Lands Council and is the Chairman of Federal Lands for the National Cattlemen’s Beef Association (NCBA). David and Diana Cook have been recognized with an Environmental Stewardship Award from the Arizona Cattle Growers and NCBA as well as a “vision” award from NCBA. David supports and believes in Cooperative Extension and has served on the Gila County Extension Advisory Board for over 8 years. David has supported the range Extension program by helping seek out funding opportunities from private sources and getting government agencies to accept and participate in the data collection and use. David is particularly passionate about 4-H. He believes the program is so important for the youth of today and he has actively promoted increased funding for Cooperative Extension in the State of Arizona.
Ms. Cayci Vuksanovich

Cayci Vuksanovich graduated from the UA in 1979 with a Degree in Horticulture and Animal Science. She managed Matlock’s Greenery and Feed Store from 1980 to 1998. She participated in one of Arizona’s first Master Gardener classes in the early 1980’s, and worked part time for Cooperative Extension as a horticulture educational specialist for a short time. Cayci hosts a morning show on the local radio station, KIKO, spreading the word of the great benefits of year-round gardening in the high desert of the Globe-Miami area. She was instrumental in the development of the Globe-Miami Farmers’ Market initiated in 2011, and served as the market board’s first president. Because of her leadership and support of the Cooperative Extension program in Gila County, many residents practice sound horticulture practices throughout the county.

Mr. Terry Wheeler

Terry Wheeler graduated from the UA with a double major in animal science and range/watershed management. Wheeler spent 12 years as an Agricultural Agent for the University of Arizona and 10 years in various Land conservation and supervisory positions with the U.S Bureau of Indian Affairs. He has also been involved in international projects in Jordan, Mexico, Italy, West Africa, and Southern Africa. Wheeler has managed several ranches including the Wheeler Cattle Ranch which he owned from 1992 to 2007. Mr. Wheeler continues to actively work in natural resource management through Wheeler & Associates, a firm that provides Agricultural and Natural Resource management and consulting to a variety of clients in the U.S. and abroad.
Alvin L. Medina (Coconino County resident) was raised on a family farm in northern New Mexico where he obtained a passion for the outdoors, agriculture and working with people. As Al says, “There’s something special about being part of a community where you share your skills rather than selling them.” This ideal led him to a career in public service. Al retired after 37 years of federal service with the US Forest Service (USFS) Rocky Mountain Research Station, USFS, and the Bureau of Land Management, working in range and wildlife research and management. As a scientist, Al researched solutions on controversial issues, i.e., livestock grazing, monitoring methods, and habitat restoration. Over the years, Al gained a reputation as a problem solver and a facilitator for practical solutions that work on the ground. Between 1985-2012, he took part in over 157 technical consultations with various resource management agencies, scientists, private entities and landowners, environmental groups, private adaptive management groups, NGO’s, and technical committees. Al has a keen interest in sharing knowledge gained from years of experience with clientele. He has authored or coauthored numerous book chapters, articles in scientific proceedings, technical references, and professional journals. He has helped lead and present at many educational venues throughout Arizona and beyond. In this respect, this scientist fulfills an educational and research program that complements the efforts of other Extension Agents throughout Arizona. Al has played an active role in leadership positions in several professional associations. Finally, Al has a passion for mentoring young students in the science and art of habitat management.

Senator Bill Hardt (Deceased)

Senator Hardt dedicated more than thirty years of service to Arizona’s rural citizens. Senator Hardt spent time in the Civilian Conservation Corps in Arizona working to create Forest Service Roads in the White Mountains. He then worked in the Globe area mining industry. Eventually he owned several businesses in Gila County but is best known for “Unique Sporting Goods,” the first store of its kind but an instant success. Mr. Hardt entered politics in 1958 because of his concern for Globe’s inadequate water supply. He spent eight years in Globe politics and then ran for the Arizona House of Representatives. He later served in the state senate for almost three decades. Hardt is known for his help in increasing rural employment. He also was instrumental in providing financial aid to help rural counties pay for AHCCS. Throughout his legislative career he supported game and fish projects and acquired funding for colleges in Payson and Thatcher. Senator Hardt retired in 1996 and took with him the title that fit him best, “Mr. Rural Arizona.” In 1992 his friends and family joined together to create an endowment which exists to support community and rural development in Gila County.
Mr. Bob Boice (Deceased)

In 1955, five years after graduating from the University of Arizona, Bob and Miriam Boice moved to the Slash S Ranch which the Boice Family owned and operated until 1978. In 1958 they built their home in Globe, raising their family and becoming very active members of the community. Bob started Globe’s first Beef 4-H club with six members including two of his own children. The club grew and so did his realization that Gila County needed a fairground. After years of dedicated work, his dream was fulfilled with the first fair held at the Gila County Fairgrounds in 1970. Bob served as the first chairman of the Gila County Fair and Racing Commission, a position he held for many years. Bob continued to be active in 4-H the remainder of his life. The Gila Co Fairgrounds Exhibition Hall was dedicated in his honor in 1995. As a tribute, the 2012 auction was dedicated to Bob and Miriam. Bob’s contributions to Arizona Ranching were acknowledged in 1998 when he received a Lifetime Achievement Award from the UA College of Agriculture. One of Bob’s proudest moments was when the Boice family received the 2011 Heritage Award from the UA College of Agriculture recognizing three generations of Boice UA Alumni.

Mr. Jimmy Griffin (Deceased)

Jimmy Griffin was born into a ranching family in Globe, AZ in 1918. He always believed in education, and in providing opportunities to the youth of his community. In the 1950’s he helped secure a building and installed a boxing ring, where teen boys could gather; he was instrumental in the creation of St. Joseph’s Youth Camp at Mormon Lake; he became a board member of the Globe Community Center and helped make the swimming pool and picnic area a reality. Appointed to the Gila General Hospital BOD in the 1980’s he served as its president, and he served on the CAAG board for many years as well. When the UA introduced 4-H in Globe in the 60’s, Jimmy and his children were actively involved. Jimmy was appointed to the Gila County Extension Advisory Board during the 1970’s, and served until 1997. In a mid-1980’s video produced by the Tonto National Forest entitled “The Tonto—Planning for Tomorrow,” the Forest Service singled out the Griffin Ranch and one other allotment for exceptional management. A 1987 video entitled “The Desert Oasis,” narrated by Rex Allen, highlighted the significant improvement of range conditions on the ranch. The scientific validation provided by the UA working in collaboration with the permittee and the Forest Service has proven to be a broadly accepted model for adaptive range management in the southwest.
COOPERATIVE EXTENSION IMPACTS
GILA COUNTY

$1,337,789 salaries, programs and equipment and
25,068 face-to-face contacts with county residents with
1,872 hours of donated time from 533 volunteers

COOPERATIVE EXTENSION
• 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

ADDRESSING CRITICAL ISSUES IN GILA COUNTY
• 4-H Youth Development
• Animal Science
• Range Livestock Production
• Youth Leadership
• Home Horticulture & Pests
• American Indian Programs
  • Livestock & Range Management
  • 4-H Youth Development
• Natural Resources
  • Forest Health/Firewise
  • Range Management/Monitoring
  • Noxious Weeds
  • Climate Education
• Water/Watershed Education

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

Joelle Acton, Research Specialist, Kingman UA/BLM Cooperative Rangeland Monitoring Program
Dr. Janick Artiola, Water Research Professor, Water Resources Research Center
Robert Armstrong, Support Systems Analyst, Sr., Arizona Cooperative Extension
Dr. Kirk Astroth, Youth Development Director, State 4-H
DeeDee Avery, Evaluation Specialist, Norton School of Family & Consumer Science
LoriAnn Barnett, Program Coordinator, National Phenology Network-Arizona Program
Chris Bernau, Rangeland Research Specialist, V Bar V Ranch
Natalie Brassill, Water Quality Instructional Specialist, Maricopa Agriculture Center
Hattie Braun, Plant Pathologist, Coconino County
Dr. Paul Brown, Associate Director, Programs, Arizona Cooperative Extension
Dr. Julie Brugger, Assistant Staff Scientist, Climate Assessment for the Southwest, Institute of the Environment, University of Arizona
Preston Cox, Horticulturalist, Boyce Thompson Arboretum
Dr. Michael Crimmins, Climate Specialist, Department of Soil, Water, & Environmental Science
Laura Crumbacher, Curatorial Specialist, U of A Herbarium
Dr. Peder Cuneo, Extension Veterinarian, AZ Veterinary Diagnostic Lab
Dr. Del Despain, Research Specialist, Sr., School of Natural Resources and the Environment
Dr. Peter Ellsworth, Integrated Pest Management Extension Specialist, Arizona Pest Management Center
Dr. Dan Faulkner, Beef Extension Specialist, Department of Animal Sciences
Dr. Ed Franklin, Associate Professor, Department of Agricultural Education
Phil Guertin, Watershed Hydrology Professor, School of Natural Resources & Biosystems Engineering
Dr. Linda Houtkooper, Associate Director, Programs, Arizona Cooperative Extension
Dr. Larry Howery, Range Management Specialist, School of Natural Resources and the Environment
Victor Jimenez, Extension Agent, 4-H Youth Development, Maricopa Agricultural Center
Colt Knight, Graduate Student,, School of Animal and Comparative Biomedical Sciences
Eric Larsen, Assistant Agent, 4-H Youth Development, Pima County
Dr. Cathy Martinez, Associate Agent, Family and Consumer Health Sciences, Pinal County
Dr. Mitch McClaran, Professor, School of Natural Resources and the Environment
Andy Medina, Support Systems Analyst, Sr., Arizona Cooperative Extension
Sarah Noelle, Research Specialist, Sr., School of Natural Resources and the Environment
Dr. Kitt Farrell-Poe, Water Quality Specialist, Agriculture & Biosystems Engineering
Dr. Steve Poe, Professor, Agriculture & Biosystems Engineering
Dr. George Ruyle, Range Management Specialist, School of Natural Resources and the Environment
Dr. Dave Schafer, Resident Director, V Bar V Ranch
Ashley Shepherd, Research Specialist, Yuma UA/BLM Cooperative Rangeland Monitoring Program
Dr. Jeff Silvertooth, Associate Dean for Economic Development & Director of Arizona Cooperative Extension
Tina Sleeper, Program Coordinator, Water Resources Research Center
Trent Teegerstrom, Associate Specialist, Production Economics, Crop Budget Development & Risk Management Education, FRTEP Project Director
Dr. Doug Tolleson, Rangeland Management Specialist, V Bar V Ranch
Dr. Michele Walsh, Evaluation Specialist, Norton School of Family & Consumer Science
Peter Warren, Entomologist Horticulture Agent, Pima County Cooperative Extension
Summer Waters, Water Resources Extension Agent, Maricopa County Cooperative Extension
Doug Whitbeck, Past Research Specialist, Phoenix UA/BLM Cooperative Rangeland Monitoring Program
Paul Wolterbeek, Volunteer Coordinator, Boyce Thompson Arboretum
2014 Program Focus Areas

- Home Horticulture and Master Gardener Program
- Climate, Natural Resources and Sustainability Education
- Reading the Range
- Range Animal Nutrition 101
- Predicting Animal Intake on Rangelands
- Linking Rangeland Monitoring to Adaptive Management and NEPA Project Planning
- How Many Cows for How Long?
- Developing and Using Cooperative Monitoring for Adaptive Management & NEPA
- Ranch Financial Restocking Workshop
- Horse Play Day
- Junior Master Gardners
- AZ Stemfest
- Resources Education for Youth
- Overnight Camping Experiences
- Youth Development
- Physical Education
- Teen Leadership
- Supplemental Nutrition Assistance Program Education (SNAPed)
- Ag. Awareness/Literacy
- Life Skills Development
- School Enrichment
- Financial Education
- Career Readiness

“Ag Daze” is all about “hands-on fun”
Personal Impacts to Gila County Residents

Animal Science, Agriculture and Natural Resources

From a rancher who recently enrolled in *Reading the Range*, "Wanted to let you know my gratitude for the range monitoring program you have set up, the way you conduct it and yourself, and the wonderful, wonderful people you have brought in with you to make it work."

From a recently retired employee of the US Forest Service who received a Centennial Award from the University of Arizona, "I dearly love the University of AZ, and am especially appreciative of the contributions of the U of A Cooperative Extension Service to Forest Service’s range management program in AZ and throughout the Southwestern Region. I hope the relationship continues to grow in the years and decades ahead."

From a Gila County rancher, “Jim Sprinkle is a great educator in any aspects. I am calling him constantly with my questions and try to attend all the workshops I can to learn more and be more educated as an Gila County Rancher.”

From an ongoing participant in Reading the Range, “As a new rancher, my participation in the reading the range program has provided me an education in understanding range vegetation production and conditions. As a rancher with a forest service permit, I'm obligated that my cattle use only a percentage of the vegetation. Use too much and I could lose my permit. On the other hand, if we have a good year I can stay longer in a pasture, by being able to ....read the range. Jim's program has helped and continues to educate me to better manage my allotment.”

Jim Sprinkle was asked to provide background information and databases for the upcoming Tonto National Forest Plan.

San Carlos, Agriculture and Natural Resources

San Carlos Childcare providers have been encouraged with the consistency of the University Cooperative Extension providing services to parents, children and teachers working together through First Things First Grant: “Children are the future and it is important that we reach all of them at an early age to start rooting healthy steps to a brighter future.”

From early Childhood trainings at San Carlos Apache Reservation, “the training was absolutely fun and the dedication for early development was moving.”, “training was very insightful we need more trainings for the community like this”, “resources are awesome! Thank you for your time and dedication, love everything about the trainings.”

4-H Youth Development

Gila County held the 6th Annual “Tween Camp” at Sharp Creek Campground on the Mogollon Rim. The camp is a special opportunity for 9-13 year old youth and has a strong focus on leadership development. Ten “Senior age” 4-H members went through training and served as camp counselors at the 2014 Camp. Over 75 youth attended the three day camp. Evaluations based on the life skills of peer interactions, healthy choices and decision making showed substantial pre- and post experience results. Comments
included: “This is the best part of my summer.” “I hope my little sister can come to camp because she would love it as much as I do!”

Shooting sports projects continued to grow in Gila County in 2014. Both rifle and shotgun project clubs were formed in Northern Gila County. 10 adult leaders and 4 junior leaders were certified in shooting sports. Youth archery members from all areas of the county participated in three county level archery shoots as well as various others around the state. Several members attended the State Archery Shoot in Tucson and excelled. Gila County dominated the top placings and we are looking forward to again being the "standout archery program."

Youth from both Northern and Southern Gila County attended JOLT (Journey of Opportunities for Leaders of Tomorrow). In 2013, Gila County was represented with 11 youth and one chaperone.

The Agriculture Awareness Program continued in it’s 5th year throughout the county. Lani Hall, 4-H program coordinator, worked with the Tonto Natural Resource Conservation District to continue providing agriculture education to children. Six classroom lessons that are standards-based include “Agriculture careers, ranching, cotton, recycling, mining and agriculture science” are taught with a culminating “hands-on” field trip. Approximately 900 youth, volunteers and teachers participated in the program with extreme growth results being shown in evaluations.

Quality Assurance is taught to all market livestock exhibitors along with animal nutrition classes and numerous hands-on clinics which make youth in our county stellar showmen and producers.

“Launch into Life” was a portion of the Freshman Conference held at Payson High School with approximately 200 youth and adult volunteers in attendance. Youth attended workshops on topics including: career planning, interview skills, financial education, and resume writing.

**Gardening, Landscaping, and Water Projects**

“From the president of the High County Garden Club: “On behalf of the High County Garden Club, I want to thank you so very much for presenting the webworm program at our August meeting. You are always very informative and helpful.”

From the Water Festival Program Coordinator, Arizona Project WET: “Dear Chris, It was a pleasure working with you to support the Southern Gila County Community. Your hard work and successes in the community really showed in how receptive everyone was to the Arizona Water Festival program. Your office is the model for how Extension outreach should be the voice of the local community. Thanks to your support and Tara’s volunteer recruitment success, I believe this collaboration will be a long-lasting one. THANK YOU.”

From the Garden and Landscape post-class survey: “I would like to thank Mr. Chris Jones for the time and effort spent in organizing our class. It was very informative and fun” and “Having different instructors in the various subjects made the subjects easier to grasp and remember. It was a very educational and memorable experience and I'm so glad that I had the opportunity to attend the classes, I'm a better steward of the earth for having done so.”
“Contemporary 4-H focuses less on agriculture and more on building life skills through ‘hands-on’ educational projects, which may include communication, technology, outdoor education and recreation, leadership styles and personal development” (Singletary, Smith and Evans, 2001).” Gila County has addressed these needs while continuing a strong focus on traditional programming. 4-H has four essential elements, belonging, generosity, independence and mastery. These elements are a priority in all 4-H youth development programming with Gila County. Positive growth is always the top priority for Gila County 4-H.

In 2014, the shooting sports programs continued to grow in Gila County with the certification of new adult and junior volunteer leaders in archery throughout Gila County through the state program. Along with the Payson Rim Country Deadshots, and the Globe Arrowslingers, an additional archery club was formed in Globe. Youth attended mandatory safety courses and participated in several tournaments around the state. The project clubs quickly became very popular and have grown tremendously! Additional volunteers have become certified in order to form more clubs and meet the increasing numbers of youth enrolling. Gila County has become the dominant county in 4-H Archery Tournaments.

The seventh annual “Kids Day at the Fair” was held in Northern Gila County. Approximately 1,000 K-5th grade students from all areas of Northern Gila County were in attendance. This activity not only provides an opportunity for children to learn more about the 4-H programs but current members can exhibit their projects and provide educational activities for the attendees. In addition to the fairs, 4-H members participated in various parades around the county and had several service project activities. Participation in the March of Dimes, Relay for Life as well as the Lorraine Cline Memorial were activities that helped develop generosity within our youth.
Throughout our nation there is a widespread concern about the increase of children that are becoming separated from the natural world which surrounds them. Encouraging youth to become “nature-smart” is one way that Gila County 4-H is addressing the need to “connect children with nature.” In 2014 the sixth annual Gila County Tween Camp was held at Sharp Creek Campground. Over 75 youth were in attendance along with ten “teen counselors.” The teen counselors attended pre-training and planning meeting in preparation for the 3 day camping experience. In addition youth experienced wood working, crafts, physical games, and various other involvement activities. Both the campers and teen counselors were given life skills evaluations that showed strong gains in healthy lifestyle choices, communication skills, decision making and peer interactions. Most importantly the results showed positive changes and great memories of fun!

Teen members from all parts of Gila County attended the 27th Annual JOLT (Journey of Opportunities for Leaders of Tomorrow) camp near Heber. This stellar camping experience focuses on leadership skills development and dealing with challenges. Youth from Gila County also attended the Arizona National Livestock Junior Livestock Judging Contest. Our youth are “learning by doing” as they participate in numerous clinics and competitions throughout Arizona.

The highly successful Agriculture Awareness program continues to be in the Gila county schools. The fifth year of the program enabled over 900 youth to participate in this program. The agent has developed this program in conjunction with the Tonto Natural Resource Conservation district board. All fourth grade students have the opportunity to participate. The program includes 6 lessons that are standards based with an agriculture theme. Topics include mining, recycling, ranching, cotton farming, poultry science and agriculture careers. The program culminates with a “hands-on” field trip experience where the youth can see and do some of the activities they have learned about in classroom lessons. Participating teachers request to continue their involvement early each year as it is a favorite program amongst the children.
The nationwide Supplemental Nutrition Assistance Program education grant was approved in 2012 for Gila County and continued in 2014. This program not only allows for two full-time instructional specialists but will see that both children and adults will receive much needed nutritional education. This program is in all schools within the county as well as various other adult education areas including food banks, federal assistance offices, low-income housing and other public events. This year public health approaches was a key factor as Physical education became a component of the program. As we make a difference in lives in Gila County we will see changes in nutritional choices and overall lifestyle.

Partnerships with community organizations and businesses have enabled Gila County 4-H to grow and provide enriched opportunities in 2014. Tractor Supply Company opened in 2013 in Miami and has provided tremendous support to 4-H. Youth have participated in numerous activities to strengthen public relations which have resulted in Gila County receiving substantial monetary support. Corporate Support from local companies has resulted in equipment donations and increased volunteer time.

In 2014 the 4-H programs continued to grow and thrive. New project clubs were developed to meet the expressed interests of the youth. New projects included photography, communications, life skills and entomology. Livestock projects continue to be a favorite and the continuous support of our communities make this a positive rewarding experience. Judging days and demonstration days were held in all three parts of the county along with showmanship clinics, quality assurance classes, horse shows and community club activities. Gila County 4-H members are learning vital life skills while making wonderful memories and developing into strong optimistic citizens of Gila County!
Program Highlights 2014

Agriculture, Farmer’s Market, Master Gardener Program

Home Horticulture and Master Gardeners

Chris Jones started 2014 with a gardening class targeted at teaching training and school gardens in the Globe-Miami area. Gila County Public Schools Superintendent Linda O’Dell provided a $2080 for scholarships. Seventeen local teachers and their program assistants participated in the evening course. VISTA Tara Celentano partnered with four of the students at Lee Kornegay School in Miami to help develop a model school garden with the student science club, made up of 25 students in 4th to 6th grade. They built four raised gardens using local donations and a small school garden grant.

Mr. Jones assisted the Payson Community Garden by helping to design a free Saturday morning training program with Roger Krameyer, Anita Baker and Glen McCombs for the garden participants. Offered in the spring, Chris taught classes intensive gardening, planting succession and interplanting, and about control of garden insects, weeds and diseases to 85 participants.

The Globe-Miami Farmers' Market operated for its fourth consecutive year. The farmers' market ran from June 2 to September 28 on Saturday mornings in 2015. Master Gardeners Cayci Vuksanovich and Bob Zache served as board members and vendors. An average of 14 vendors per week sold fresh local produce, homemade goods and crafts. Mia Techau, UA Freshman, worked as the assistant to farmers' market manager. Mia supported the market through promotional activities including the FaceBook page, weekly newsletters, client surveys (47), market-day and kid's activities, and the mid-market report. Comparison of 2011-2014 Farmers' Market sales statistics and evaluations demonstrated:

Chris Jones offered several free community workshops throughout the year, including:
- Tree pruning (2/24, 10 participants, Miami);
- Apple Grafting (3/8, 24 participants, Young),
- Shrub Planting (5/15, 10 participants, Miami) and the Fall Gardening Workshop (10/11, 39 participants, Globe). Surveys (21) were returned after the tree pruning and grafting workshops with 71% indicating they had "learned a new technique and plan on using what I learned." Also, 90% indicated they were somewhat likely (29%) or very likely (62%) to share what they learned with others.
In the fall, Chris was in Payson teaching the Garden and Landscape class at Gila Community College. Thirteen students enrolled and 9 completed the course. Chris was invited and provided programs for two garden clubs in Payson to total of 86 participants.

Eighteen active volunteers contributing 425 hours of volunteer service, valued at $22.55/hr for $9,584 (Independent Sector, 2013). They assisted Mr. Jones in providing significant educational experiences to at least 848 clients through workshops and guest speaker presentations open to the public.

**Climate, Natural Resources and Sustainability Education**

Chris Jones and VISTA Tara Celentano partnered with the UA WRRC WaterFest program coordinator Tina Sleeper to conduct the first Project WET Water Festival in Southern Gila on March 27. Tara and Chris played a major planning role for this one-day multi-school event for 4th grade students. Mr. Jones led a learning station where he taught around 50 youth about watershed principles. The festival brought together a broad coalition, including the Gila County School Superintendent’s office, local schools, and Freeport-McMoran Copper Company and other companies as sponsors. It was led by both campus and county Extension educators. It brought together 147 volunteers to teach 336 students about water.

Mr. Jones coordinated with Gila County and the City of Payson to teach a fall Master Watershed Stewardship course at Gila Community College. This was the first time the course was offered in the county since 2009. Sixteen students enrolled; twelve completed the course. Fieldtrips to the CC Cragin pipeline project and Roosevelt Dam were featured. The course was well received by the students and the City of Payson.

Payson recently completed policy work to use CC Cragin Reservoir as its primary water source. Community education is of key importance as water rates increase for this farsighted benefit. Surface water pollution caused by outdated septic systems is another serious concern for the county. This partnership with Payson and Gila County provides an opportunity for Cooperative Extension to help address these issues. Mr. Jones submitted a proposal and received $7,000 in Signature Program Team funding to lead an effort to help bring more campus resources and expertise into Gila and other counties.
Due to the threat of greatly reduced or a discontinuance of grazing on federal grazing permits in Gila County, a collaborative range monitoring data collection program Reading the Range (RTR) was founded in 2001. Since the program began, range monitoring has expanded from 100,000 acres to 1.499 million acres on the Tonto National Forest (57% of grazing allotments). There has been $717,278 in extramural grant funding obtained to help support RTR. These grant funds have been integrated into the local economy for data collection, data entry, specialized equipment, and data summary. Data collected have been used to help validate the effectiveness of grazing and federally funded cost share conservation practices to assist in rangeland management. As a result of RTR, NEPA documents and grazing decisions on the Tonto National Forest are more closely tied to on the ground scientific data.

An email survey was sent out by the Gila County Cattle Growers in early January, 2015. Respondents were asked if they had ever participated in the RTR program; if it had caused an increase in profitability and if so, how much; and any other social benefits that could be attributed to participation in RTR. A limited return (n = 6) yielded the following results for profitability: 1. $35,000 to $50,000 per year (larger operation); 2. $3,500 to $5,000 per year; 3. $110 increase per yearling sold; 4. $50/calf increased profit; 5. 15% increase in the carrying capacity of my ranch; 6. We can add numbers (increased stocking rate) by determining pounds of forage per acre by monitoring but have not done so yet. Prominent social benefits including exchanging ideas on improving management with the collaborative monitoring team; defense of the ranch against erroneous claims of overgrazing or poor rangeland management; increased knowledge of rangelands.

The response following summarizes many of the benefits of the RTR program.

I have been a participant of the Reading the Range program for seven years. Over the course of seven years I believe the profitability of my livestock operation has increased. The market for cattle and its upward and downward trends is of course the prime determinant of profit or loss. That being said, I can confidently say the Reading the Range program has also had a significant impact on my profitability. When determining the market value of cattle two factors come into play, market price and weight. The Reading the Range program provides me with scientific data concerning the trends of my rangeland. This data tells me if I need to alter my grazing management to insure we have an upward trend of the health of our grasses and browse. The data also tells me the forage production and utilization figures for each year and I can again manipulate my rotational grazing program to use more productive areas longer and decrease the duration of grazing in less productive areas. The result of grazing smarter due to the data Reading the Range provides is an increase in the weight of my market yearlings. I would estimate my yearlings average 50 lbs. more than they would without the RTR data which enables me to do a better job of management. At today’s prices that
equates to a $110 increase per yearling.

There are other social benefits that are derived from participation in the program. When we monitor our rangelands we often have help from government agencies, universities, fellow ranchers and neighbors. The participation of these groups and individuals provides us with an opportunity to exchange ideas how to improve our management, and it affords us time to explain to them our concern for the welfare of the land and our livestock. It is very evident that the interactions with participants at monitoring has measurably increased the communication, collaboration and cooperation among these various groups and individuals.

In January 2014, a collaborative team (US Forest Service, Natural Resources Conservation Service (NRCS), U of A School of Natural Resources and the Environment, Tonto Natural Resource Conservation District, Gila County Cooperative Extension, and the Gila County Cattle Growers) was awarded $50,000 by the Public Lands Council to demonstrate and build a process for better integrating range monitoring data collection into adaptive management and NEPA for grazing allotments on the Tonto National Forest. This funding was matched by $50,000 from the US Forest Service and $25,000 from Arizona NRCS. One goal of the grant was to better integrate existing soil map information into the selection and monitoring of key areas. The pictograph below illustrates the successful process of doing this on the 51 Ranch north of Cave Creek. The process used on this ranch has been highlighted in educational programs in Gila County and at the Public Lands Council meeting in Durango, CO.
Youth Gardening / Nutrition Projects
The Extension Office continued 5 gardens at these locations: Mount Turnbull Academy Alternative High School in Bylas, San Carlos Alternative, Boys and Girls Club at the San Carlos Diabetes Prevention Center, San Carlos Rehabilitation and Detention Center, San Carlos Skill Center. Students and youth, as well as instructors and community members, learned about the following topics: soil, composting (recycling your own food), horticulture, garden preparation, garden planting, transplanting, taste testing of vegetables/fruits, food recipes (using garden crops) and nutrition.

The Detention Center, SC alternative and SC Rehabilitation/ Detention Center, Skill Center, Mount Turnbull, Boys and Girls Club learned basic gardening methods. In addition, locations learned how to use herbs to make tea and use with recipes. The Extension Agent reached 450 youth through the gardening program on San Carlos Apache Reservation.

Agriculture and Natural Resources
The Extension Agent performed 4 workshop/programs related to ranching and livestock. These workshops were Ranch Financial Planning workshop, Beef Management workshop, 4-H, Horse training workshop/Horseplay day. Participants learned about record keeping of ranch assets, expenses, income from operations, livestock stocking rates for their land, how to train and handle horses, and perform livestock related projects. The Extension Agent was able to reach 32 adults and 21 youth through these programs.

The Extension Agent also performed 4 workshop related to gardening methods. There were 3 raised beds implemented for this program at the San Carlos Skill Center. Participants learned about composting, soils, transplanting, maintaining and establishing a garden. Participants did cultural planting sessions that included squash and melons. The Extension agent was able to reach 107 adults with this program.

First Things First Program
The Instructional Specialist, Juan Arias, continued implementation of 14 raised bed gardens at these locations: Apache Child Care, Child Readiness, Head Start, Child Readiness, Youth Home, Home Group provider, St Charles School, and Social Services parent class through First
Things First grant. Participants learned about winter plants, summer plants, plant needs, tasting fruit and vegetables, MyPlate, Apache words for crops, harvesting and taking care of plants.

The Instructional Specialist, Juan Arias, implemented the 4 curricula, including Family Book bag, Color Me Healthy, Grow It, Try It, Like It, and Family Style Meals in the following locations: 2 Apache Childcare Centers, 1 St Charles School, 1 Youth Home, 1 Home Childcare, 2 Readiness Centers, and 4 Head Start preschools. He reached 254 youth and 38 adults. He trained the youth in hands-on gardening with age appropriate tools. He trained the adults in all 4 curricula as well as in gardening. Children, parents and child providers learned how to teach children gardening skills using the Grow It, Try It, Like It! curriculum.

The Instructional Specialist implemented Family Book bag literacy geared toward nutrition and physical activity. Color Me Healthy curriculum to teach nutrition and physical activities for children aged 3-5. Family Style Meals curricula focused on family values and nutrition in the classroom or at home. The Grow It, Try It, Like It! curriculum to introduce fruit and vegetables to children while learning about gardening. Instructional Specialist conducted an evaluation of the programs offered at 11 locations, (n=11), with preschool and childcare staff. The staff indicated that they had learned the following: Planting (11 respondents), taking care of vegetables (11), identification of plants (8), Food Plate--MyPlate (11), Reading (12), eating fruits and vegetables (10), portion sizes (8), serving food (8), exercises/becoming active (9), Identifying plants vs. weeds/weeding (5).

The most important concepts that each staff member learned were: eating healthy, eating more veggies and fruits, gardening, exercises/becoming active, self-serving family style meals (pleasant conversations while eating and good manners), reading (learning about the garden through literacy), planting seeds and transplants, music movement/motor skills and eating healthy food. The respondents also stated that they would like to focus in the following area: literacy and parent involvement with programs, planting, what fruits and veggies to plant and when seasons change, MyPlate, motor skill activities, “anything and everything”, to “not really, we are doing stuff with them already”, and “gardening safety guidelines”. Returning staff were more active and showed greater knowledge using curricula.
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<tr>
<th>Funder</th>
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<th>Purpose</th>
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<td>UA CALS</td>
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<td>Scholarships for Master Gardener class for teachers and assistants</td>
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<td>Capstone</td>
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<td>Funder</td>
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<td>Truist SW Gas United Way</td>
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<td>TOTAL</td>
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Funding for Gila County 2014

Salaries/Wages: $457,313
Operations/Programs: $880,476
Total: $1,337,789

Gila County Expenditure Budget for the year 2014

<table>
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<th>Salaries/Wages/ERE</th>
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<td>State &amp; Federal(^1)</td>
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<td>US Department of Agriculture(^3)</td>
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<td>Totals</td>
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<td>880,476</td>
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These values do not represent office space and utilities provided by Gila County and the San Carlos Apache Tribe.

\(^1\) State funds from state appropriations to University of Arizona College of Agriculture.
\(^2\) Federal funds from US Department of Agriculture for Cooperative Extension programs.
\(^3\) Grants are listed on the proceeding pages.

USDA funds provided specifically to support Extension Agent for the San Carlos Apache Reservation.
Facility Rank: Area Agent, Animal Science

A primary responsibility of this position is to provide leadership in developing and conducting educational programs in animal science, primarily livestock production, with emphasis in Gila and Yavapai Counties. The area agent will also participate in planning or implementing natural resource educational programs that complement range livestock production.

The agent is expected to participate in or lead team efforts across county lines and statewide in educational programming or appropriate applied research, particularly with the Arizona Range Resource Education Committee. The agent shall contribute in establishing multi-county and statewide partnerships with other extension, research, and multi-agency personnel to implement these programs.

The agent shall conduct problem-solving research on site with land managers, livestock producers, other extension faculty, and interested parties. Results of research shall be included in extension programming efforts and applied and scholarly publications.

The agent shall work with 4-H clubs, providing animal science expertise through consultations, workshops, and publications. Additionally, the agent shall work with target audiences identified through local needs assessment in solving problems and utilizing new technology and information in production, resource management, marketing and other areas. The area agent shall participate in appropriate multi-disciplinary teams, livestock production industry and commodity groups, agencies and organizations, and communicate research interests and educational needs to extension and campus faculty.

The agent is expected to keep current in his area of specialization and transfer appropriate research-based information and technology to clientele via publications, educational programming, or the media. The agent is also expected to comply with all Civil Rights mandates and actively solicit participation from under represented groups in Extension programming.

As Gila County Extension Director, this position carries a 20% administrative appointment to supervise Extension work in three offices at Payson, Globe, and the San Carlos Indian Reservation.
Grants Awarded in 2014

In 2014, Jim assisted in bringing in $423,244 in new grant money for Livestock and Resource Management.

Emilio Carrillo (NRCS, Tucson; kneeling right) describes soils at the range monitoring field session on the M Bar K Ranch in Globe. *Photo by Mitch McClaran.*
Publications

Peer Reviewed Journal


Website
Participated in development of the Reading the Range Impact Story available at: https://extension.arizona.edu/reading-range-impact-story. Published February 2014.

Extension Report
Sprinkle, J. 2014. 7 Range monitoring reports summarized in 2014 for data collected from 2011-2012. 3,693 pages for the 7 reports.

Review/Revisions

Reviewed grant application for Alberta Beef Producers.

Reviewed journal article for Rangeland Ecology and Management.

View from New River Mesa on the 51 Ranch north of Cave Creek. Photo by Chris Bernau.
Research:
1. Prepare the four year beef cattle trace mineral research on the V-V Ranch for submission to the *Journal of Animal Science*. Summarize and submit the beef cattle mineral intake research data for submission to the *Journal of Animal Science*.

Extension:
1. Complete *Reading the Range* data summary reports for data collected from 2011 to 2014 by the end of July. Assist in organization for data collection to occur the fall of 2015.

2. In partnership with Del Despain, provide a workshop to *Reading the Range* participants and agency partners in data interpretation and successfully using the new version of the VGS software. Date for this workshop is June 5th.

3. As part of a *Drought and Adaptive Management of Livestock* grant effort led by Dr. Mitch McClaran, assist in providing workshops related to drought planning by a collaborative team of agency and rancher partners. The final product will be jointly agreed upon drought plans and prescriptions that improve, integrate, and encourage the use of national and more localized drought information and encourage adaptive management in dealing with drought. A *Drought Planning and Response for Livestock Management on Forest Service Lands* document will be developed and hopefully be integrated into Forest Plans and allotment management plans. The first workshop is in Globe on March 12th and the second workshop is in Payson on August 27th.


Service:
1. Serve on graduate committees for the School of Animal and Comparative Biomedical Sciences graduate students.

2. Serve on the Extension Committee and the Strategic Planning Committee for the Western Section, American Society of Animal Science. Organize a workshop in Ruidoso, New Mexico in June 2015.

Administration:
1. Serve as Gila County Extension Director and seek to maintain funding.

2. Seek to expand Extension programming for forest health and restoration by hiring a new Area Forestry Agent for Gila, Navajo, and Yavapai Counties. Assist the new Family and Consumer Health Sciences Area Agent by hiring a 0.5 FTE program coordinator to assist with programmatic responsibilities in Gila County. Also secure a partnership for a 0.5 FTE SNAP-ED program coordinator for Gila County. Initiate the hiring process for a 4-H Extension Agent for Gila County.
This coordinator is responsible for developing the 4-H Youth Development program throughout Gila County. 100% of the coordinator’s time is focused on positive youth development programs in all areas of expressed interest and/or needs. As 4-H Youth Development in Gila County continues to grow, areas of focus will change but positive Youth Development will always be top priority.

The coordinator is responsible for leader recruitment, training and certification. The coordinator serves as a resource for leaders as they conduct their regular project club meetings and activities. It is the responsibility of the coordinator to verify that civil rights and affirmative action are included in all 4-H Youth Development programs.

The coordinator is responsible for the development of educational programs that meet the needs and desires of Gila County 4-H families. This included programs in all areas of positive youth development including but not limited to: animal science, youth leadership training, livestock quality assurance, crafts, geology, consumer and family sciences, record keeping.

The 4-H program coordinator develops a network of certified volunteer leaders, 4-H youth and community volunteers to form a positive collaboration. The end result is a strong program that not only benefits Gila County youth 4-H members but our communities. The coordinator is an advisor for three leaders council; Southern Gila County, Northern Gila County and Pleasant Valley. The coordinator will serve as a resource for leaders and youth as well as a facilitator of educational programs that meet the overall needs of youth in Gila County.

The primary purpose for the Program Coordinator, 4-H Youth Development is to deliver research based, non-formal, objective education to Gila County youth and families. This education will assist in developing leadership and promoting healthy lifestyles and communities.
In 2014, Lani led or contributed significantly to the acquisition of $250,522 in grant money for conducting programs in 4-H Youth Development and Family programs.

As participants in Ag Daze, youth are recognized for sportsmanship, trying new things, and having fun.
2015 Plan of Work: Focus Areas

Lani Hall

Extension:
1. Agriculture Awareness Education will be taught in all fourth grades as well as multiple grades in smaller schools within the county. This program involves six Agriculture related lessons taught in the classrooms as well as a culminating “hands on” experience at a local ranch. All lessons are aligned to state standards. This will be the seventh year of the program in Gila County.

2. Supplemental Nutrition Assistance Program education: will be taught throughout the county to children in grades K-8 as well as adult education for SNAP recipients. Program coordinator and instructional specialists will be providing this type of education in not only K-8 schools but preschools as well as adult venues where nutrition education opportunities are available.

3. Develop a financial education program for youth throughout Gila County based on needs assessment.

4. Assist with conducting a needs assessment to identify and develop new programs to best serve Gila County in the areas of Family, Consumer and Health Sciences.

5. Continue to develop and best meet the needs of Gila County SNAPed recipients as the Gila County regional program coordinator in the areas of public health strategies, nutrition education, and physical activity opportunities

Service:
1. Payson Center for Success Advisory Board

2. Northern Gila County Fair Board: Advisor

3. Payson Agriculture Education Foundation: Advisory Board
Faculty Rank: Agent, Agriculture & Natural Resources

A primary responsibility of this position is to provide leadership in developing, implementing and evaluating educational programs aimed at improving the sustainability of natural resources, increasing understanding and involvement in land use and natural resources policy, and increasing the effectiveness of program-related producers, groups and individuals to solve their own problems and improve their quality of life.

The agent leads or participates in team efforts in Gila County, statewide and nationally in extension program development, including outreach methods and educational materials, particularly as it applies to the needs of the high desert and mountain environments, such as residential horticulture and climate change impacts on natural resources. The agent shall contribute in establishing multi-county, statewide and national partnerships with other extension, research and multi-agency personnel to implement these programs. The agent shall participate in appropriate multi-disciplinary teams, agencies and organizations, and communicate research interests and educational needs to extension and campus faculty.

The agent shall work with Master Gardeners and other groups in Gila County, including youth, providing leadership and expertise through training and coordination of volunteer activities. The agent shall work with target audiences identified through local needs and planning assessments in solving problems, utilizing new technology and information in natural resource management, climate, water issues, fire mitigation, noxious weed education and other areas.

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

The agent is also expected to comply with all Civil Rights mandates and actively solicit participation from under-represented groups in Extension programming.
Grants Awarded in 2014

In 2014, Chris led or contributed significantly to the acquisition of $49,080 in grant money for conducting programs in Agriculture, Natural Resources, and Climate.

Group picture of volunteers at the Southern Gila County Water Festival. Photo credit: Holly Sow
Chapter

Professional Journal


Fact Sheet


Website

Abstract


Invited Speaker
Home Horticulture

1. Teach Master Gardener class at Bullion Plaza in Miami, Spring 2015.
2. Lead and conduct the Landscape Restoration and Rainwater Harvesting Project in partnership with Bullion Plaza Museum as volunteer activity.
3. Provide continued support for the Globe-Miami Farmers' Market.
4. Seek to acquire and supervise a new UA Green Fund Student Sustainability Extern to assist with the farmers' market and other related outreach activities, Summer 2015.
5. Participate with State Horticulture Signature Program Team (SPT) as led by Ursula Schuch.

Climate Change, Sustainability & Natural Resources

1. Provide leadership to revitalize the Arizona Master Watershed Stewardship Program through an SPT Initiative.
2. Provide leadership for the Association of Natural Resource Professionals Climate Science Initiative, with primary focus on providing monthly (9) Extension webinars.
3. Present at the National Extension Energy Summit concerning Climate/Natural Resource programming and communication in April.
4. Initiate peer-review article on whether emerging Journal of Extension literature concerning climate change communication is being accepted as Extension practice and how it may be improved and/or adapted.
5. Coordinate Climate & Agriculture professional development sessions for the National Association of County Agricultural Agents annual conference in July.
6. Teach Master Watershed Stewardship course in Payson, Fall 2015.
7. Provide leadership for the Environment and Sustainability SPT in partnership with co-chair Mark Apel.
8. Work with Gila County fire departments and other partners as needed to offer fire mitigation education throughout the county.

Riparian Areas & Grazing Systems Program

1. Assist area animal science agent as requested for program development and delivery.
This position provides educational programs and practical information to the residents of the San Carlos Apache Reservation. The program areas are agricultural production, natural resource management and 4-H youth development. Approximately 50% of the agent's time will be spent in agriculture and natural resource programming and 50% in the 4-H youth development programming. The agent also serves as Assistant Professor in the Department of Agricultural Education, where she is affiliate faculty, and performs instructional and research activities, linked to her extension experience.

Through information from applied, translational research and needs assessments, the agent caters educational programs to the cultural characteristics of the Native American community. She provides practical information to the people on the San Carlos Apache reservation on the topics of animal production (primarily cattle and horse) and range management through workshops and technical assistance. She teaches gardening and nutrition education with both youth and adults, collaborating with others in doing so. The office also helps to organizes 4-H Clubs in steer, horse, gardening and archery. Another area she covers is Natural Resources, where she collaborates the Tribal Forestry in the Natural Resources Practicum camp.

The Agent conducts Agricultural Education and Extension research and publication at regional, state, national, and international levels. She also performs occasional instructional duties as a guest speaker or intern supervisor for the Department of Agricultural Education as requested.

The agent develops an Extension advisory committee which will give direction on critical issues for program development. These issues include economic development of the 5 Cattle Associations and 2 Tribal ranches, as well as providing youth with career orientation, leadership, and also gardening and nutrition skills to combat diabetes. The advisory committee consists of community members, Tribal agency personnel, 4-H volunteer leaders and school personnel. The agent involves Tribal leadership, the Extension Advisory Committee, commodity groups, tribal, state, and federal agencies, county Extension staff and clientele in program planning and methods to evaluate program effectiveness. The agent uses qualitative methods such as appreciative inquiry and focus groups, as well as short surveys and individual interviews to plan and evaluate. She also identifies and develops a core of volunteers, collaborators, and cooperators. School teachers and principals, 4-H leaders, tribal agency personnel, and UA Extension specialists, administrators, and agents all assist with the reservation extension program to expand programs. The agent strives to maintain technical competence in agricultural, youth development, and natural resources subject matter relative to San Carlos Apache Reservation's needs.
Grants Awarded in 2014

In 2014, Sabrina contributed significantly to the acquisition of $77,887 for the San Carlos Nutrition, Obesity and Physical Activity Grant as a sub-contractor to the United Way of Tucson for the First Things First San Carlos Region.
Juan Arias
Instructional Specialist

**Extension**

**Family and Consumer Science**

1. Instructional Specialist will recruit 2 more childcare locations for the First Things First preschool program and maintain contact with current locations.

2. Conduct two trainings to present 4 curricula Family Book Bag, Color Me Healthy, Family Style Meals and Grow It, Try It, Like It!.

3. Continue implementation of Grow It, Try It, Like It! gardening sessions at 6 locations St Charles School, Youth Home, Social Services parent class, Head Start, Home Group 1, Child Readiness and Apache Child Care to teach children basic gardening skills and inform parents about gardening at home.

4. The Instructional Specialist will teach 6 gardening sessions at Tulapia Camp center during the summer at San Carlos Apache Reservation.

**Community Involvement**

1. Instructional Specialist will teach 4 early childhood literacy parent presentations at San Carlos Public Library.

2. Staff will participate on 2 First Things First Family Fun Night event for parent and children outreach.

3. Staff will survey 12 locations evaluating the progress and success of 4 curricula implemented on the San Carlos Apache Reservation.

4. The Instructional Specialist will host another early childhood training for teachers, parents and community members.
Michael McIntire
Instructional Specialist

Extension
San Carlos Cattle and Range Program

1. Complete a series of rangeland monitoring workshops to teach ranchers how to perform monitoring tasks on their ranches.

2. Conduct workshops with ranchers to learn and identify key forage plant species in Arizona rangelands.

3. Conduct workshops to teach basic rangeland ecology to ranchers to get better understanding of the plant communities within Arizona.

4. Perform field days with ranchers to establish key areas for monitoring and perform field monitoring tasks.

Youth Development

1. The Instructional Specialist will continue with Junior Master Gardener classes at 4 locations; work with the San Carlos Juvenile Rehabilitation/Detention Center and Boys and Girls Club, Mt Turnbull Academy, and the San Carlos Alternative School.

2. The Instructional Specialist will recruit 4-H leaders and members and establish at least one club per year.

Community Involvement

1. The Instructional Specialist will plan and conduct a landscaping summer workshop for students and the general public at the Gila Community College San Carlos campus.

Mt Turnbull Academy
High School in Bylas
Horticulture project.
Photo By Juan Arias
Faculty Rank: Area Assistant Agent

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

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

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

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

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

This position is based in Yavapai County, but includes 15% area responsibilities in Gila County.
Family, Consumer and Health Sciences

1. Fill the part-time Coordinator of Family, Consumer, and Health Sciences (FCHS) position, based in Gila County, to help plan and implement programming.

2. Work with part-time Coordinator of FCHS to develop a scope of work for meeting goals within the current annual plan of work and planning for next 2-5 years.

3. Complete needs assessment in Gila County and compile a report of the findings; present finding to the Gila County Cooperative Extension Advisory Board for input.

4. Based on needs assessment findings, priorities and funding, develop new or identify existing programs to be offered in Gila County. Potential programming may include financial management / education, food safety, parenting education.

5. Identify and seek funding sources to support implementation and expansion of programming.

6. Offer classes and programming in Gila County to meet priority needs.

7. Conduct outreach to potential partners in Gila County such as regional councils, financial institutions, hospitals and medical providers, non-profits, etc.

8. Develop relationships with new partners and aim to serve on local networks, coalitions and other advisory and working groups.
**Sights and Scenes of Cooperative Extension at Work**

The 2014 County Fair in Globe was a great success! Numerous 4-H Youth were recognized for their hard work and dedication. *Photo by Londa Waggoner.*

Previewing range improvements on the 51 Ranch (From left, Jeff Sturla, USFS; Corky Brown, former ranch manager; Jim Sprinkle). *Photo by Steve Barker.*

Logan and Jesalyn Robison showing off winning High Point at 4-H demonstration day. *Photo by Londa Waggoner.*

Selecting key areas on the 51 Ranch. *Photo by Steve Barker.*

Stemfest 2014 display. *Photo by Londa Waggoner.*
San Carlos Cooperative Extension

Instructional Specialist gardening at Head Start Peridot. Photo by Head Start Staff.

Apache Child Care Bylas gardening, Photo by Juan Arias.

Head Start Peridot Gardening. Photo by Juan Arias.

Child Readiness Gilson Wash gardening. Photo by Juan Arias.
Londa Waggoner preparing healthy food demonstration for Pine View Manor in Payson.

Teri James doing a food demonstration in Payson.

WaterFest coordinator Tina Sleeper rallies the troops for Southern Gila County’s first Water Festival. *Photo credit: Holly Sow*

Julia Randall Elementary School 4th graders making ice cream in Payson.

Ms. Brantley displays the wholesome produce available at the Globe-Miami Farmers’ Market. *Photo credit: Mia Techau*
Teri James and Londa Ortega are the SNAPed Instructional Specialists for Gila County.

Garlic flowers and kohlrabi at the Globe-Miami Farmers’ Market. Photo credit: Mia Techau.
The Life Skills club had a wonderful experience when they worked to earn money and visit Washington DC. The group was able to visit many historical and important sites that play an important role in our lives.

Serving the community is a large part of 4-H involvement. 4-H members are involved in several events including March of Dimes, Relay for Life and as shown here compiling information for visitors to the community.

Southern Gila County 4-H members serve each year as tour guides for the annual home tour in the Globe-Miami area.

In 2014, the cooking project clubs grew in numbers which resulted in the development of an "advanced" cooking club. Youth are learning new skills and nutrition but they also are making lots of fun memories! Jazmyn Arthur and Jesalyn Robison are shown here at one of the many cooking meetings!
Jesalyn Robison is pictured here at the 2014 Gila County Fair. Jesalyn participates and excels in several projects including swine, cooking, sewing and life skills. *Photo by Londa Waggoner.*

Goldeneye in bloom on the LF Ranch in the Mazatal Wilderness. *Photo by Jared Lyman.*

Building a road on the 51 Ranch for monitoring after a big flood. (From left, Jeff Sturla, USFS; Kristen Baker, ASU; Jim Sprinkle; Tyler McCafferty, ASU.) *Photo by Chris Bernau.*
Teaching a granddaughter how to ride a horse. *Photo by Wesley Sprinkle.*

The LF Hilton on the LF Ranch in the Mazatal Wilderness. *Photo by Jim Sprinkle.*

Transporting camping and monitoring gear out of Mazatal Wilderness. (Jared Lyman and horses). *Photo by Jim Sprinkle.*