NEW

State-of-the-Art Hospital
Medical Services
page 20
Oh The Possibilities

As we begin to settle into our new campus, I am overwhelmed by the many possibilities ahead of us to serve the community and nature. This issue of WingBeats is dedicated to making each of you aware of what we plan to do.

Oh, the possibilities...Medical Milestones

Of course we will continue to assist wildlife, but it is a whole new ball game. We know that you have choices when you are searching for help for a wild creature in need. You have invested time and energy in getting help...all of that effort on your part is worth getting the best help you can get, and we believe we can provide it like no one else. Our hospital wing is so state-of-the-art that it defies what has been done with wildlife in the past, not just in the southwest, but all over the country. Our skill and knowledge gained over the last 36 years is finally fully exposed. Our set-up and equipment, including our digital x-ray, will allow us to give any wildlife we receive the very best chance at survival and ability to be released back into the wild. Our care will be instant, no waiting for a drive to another clinic for x-rays or waiting lengthy periods for tests that we can now do in-house. Broken bones will be properly pinned, checked on instantly, and allowed to start the healing process the day it comes in. Our care will be instant, no waiting for a drive to another clinic for x-rays or waiting lengthy periods for tests that we can now do in-house. Broken bones will be properly pinned, checked on instantly, and allowed to start the healing process the day it comes in. Veterinarians will be on duty every day of the week to provide the professional experience necessary. And, let’s not forget the ability for the public to view through special windows, the activities in triage and surgery...a precious peek into the rehabilitation process.

Oh the possibilities...Educational Excellence

Our robust education programs have been limited to out-reach, to a classroom period, to the constraints of a community event. While all of those occasions will continue, our on-site programming will take our education to a whole new level. Our trail through the education enclosures will provide educational information for the interested. Our Living Laboratory will allow hands on, interactive, investigative activities that not only capitalize on STEM experiences, but will also pique the interest of those seeking literary studies, arts, and environmental quests. We will be able to provide camps, intersessions, on-site tours, internships, and residencies. Our Education Center will be the scene of presentations, films, speakers, and inter-classroom activities...fill up the bus and bring on your entire third grade! And, then there is our beautiful amphitheater...it will be the scene of many happenings that only the imagination can conjure up at this point.

The grounds will provide nature/educational activities. The habitat itself can be explored...all three biomes: upper Sonoran Desert, riparian, and wetlands. On-site birding, river exploration, pollinator primacy, and the importance of sustainability in all of our lives will be the topic of many explorations. Special attention will be given to providing age appropriate programming, volunteer opportunities, and fascinating experiences for the very young to the very adult.

Oh the possibilities...Technical Assists

Marrying nature to electronics will be another special feature on our new campus. Cameras in some of the foster care enclosures will allow the public to watch a process of same species raptors caring for orphaned babies throughout the season. Our foster care program. Peeking into the process through cameras mounted in cages where only staff and certain volunteers are allowed to enter will give you, the public, a chance to see something that only a few get to experience. Our smart boards/touch screens throughout the training and conference rooms, the board room, the library, the Living Laboratory, and the large classroom will allow us to capitalize on many things educational and inspirational. Screen time will become beneficial time.

Oh the possibilities...Sustainable Practices

The story of our campus from its beginning as a reclaimed piece of land to the natural vegetation, the water harvesting, the solar capacity, the reclaimed snow fence wood and all of the latest technology to help us be environmentally sound will be used to tell and tout the importance of living in a sustainable world. Our ability to rent out beautiful spaces...
furthers our capacity at financial sustainability.

Our Non-Eagle Feather Repository, unlike any other, is another lesson in repurposing a feather, wing or tail feathers, or other parts of a deceased bird. They go to new lives in regalia, art and religious ceremony. More sustainability, more service to the community, more of doing the right thing.

Our Research and Conservation has a home to show off their projects, their ability to help corporations, agencies and the public with issues negatively impacting wildlife. Already providing assistance across the state, this public venue will be a springboard to more opportunities to prevent wildlife from being collateral damage. And, future results from a study by SRP will investigate the why’s and how’s of electric events and raptors. The power pole installed in our 180 foot flight cage will garner very valuable information to address the negative impact on wild birds and power poles.

I repeat, oh the possibilities.

Megan Mosby
Executive Director

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We are thrilled to announce that Liberty Wildlife has been awarded a grant from the Rob and Melani Walton Foundation for $2,000,000 in support of our new facility and ultimately to the mission of Liberty Wildlife.

Rob and Melani have been known at home in Arizona and around the world for their generous support of conservation, environmental and sustainability initiatives. They have given of their own resources and of their own spirit and energy to support the mission of their foundation.

We are humbled by their generosity and blessed to have them here in our community.

We are pleased and honored beyond words that their names will appear on our new building which is located on the south bank of the Rio Salado in the Rio Salado Restoration Area. Our facility will be known as The Rob and Melani Walton Campus of Liberty Wildlife.
Sustainability at the new Liberty Wildlife facility

Site
- Rehabilitation of former sand and gravel pit brownfield site
- Restoration of native landscape habitat (top photos)
- Develop demonstration wetland to provide riparian habitat interpretation
- Pollinator gardens designed to attract bees, butterflies, hummingbirds
- Bio-swales designed to capture and clean stormwater and recharge ground water aquifers (photo top left)
- Electric recharge stations for electric cars to be available

Water
- Roof designed to collect and store rainwater in cisterns for landscape irrigation (photo bottom right)
- Xeriscape landscaping allows for desert friendly landscaping with minimal irrigation needs
- High efficiency irrigation system that utilizes stored rainwater
- High efficiency plumbing fixtures that reduce water consumption

Energy
- PV solar system generates renewable energy on-site and returns excess energy into the grid

Resources
- Wood used on skin of building is reclaimed snow fence wood (background photograph)
- 90% of construction waste will be recycled
- Building utilizes many recycled materials
- Local materials sourced from within a 500-mile radius
Pollinators

Fierce competition comes with the territory in nature, yet here we also find one of the great partnerships of all time.

by Gail Cochrane

More than one hundred million years ago an allegiance formed between flowering plants and insects. That pairing created a burst of co-evolution that exponentially increased the numbers of species in both groups.

Flowering is all about sexual reproduction, of course. Pollen is the male gene bearer of a plant, and it must travel from anther to stigma in order for the plant to create offspring in the form of seeds. Some plants do this with the help of the wind. These plants have modest, nondescript flowers, but produce vast quantities of pollen. With the help of the breezes, some of the tiny grains eventually find their target. Grasses, the sixth largest family of plants with over 9000 species are wind pollinated.

Other species diversified from this model, and with a leap of creativity, flowering plants or angiosperms called on insects to carry their pollen – to be the go-between, if you will. These plant species developed flowers designed to attract specific insects, birds and even mammals to aid in their procreation.

Think of flowers as the plants’ advertisements – calling out to passing insects with colors and scents, and carrying promises of a better life. The plants deliver by providing amino acids, proteins, fatty acids, vitamins, minerals and carbohydrates in their pollen, and energy packed sugars in their nectar. They reward insects, birds and bats that visit their blooms with the required fuels for flight.

Photos - Top: Palo verde in bloom; Middle left: bee on globe mallow; Bottom left: Costa’s hummingbird at a penstemon flower
Advertising and reward systems are costly to produce. Many plants evolved so that only those insects and birds that would actually carry out pollination would be rewarded. This system of specialized partnerships between plants and their pollinators is called mutualism. Flowering plants are now classified into “syndromes” based on their pollinators.

For instance, desert plants pollinated by hummingbirds bloom in bright colors during the day. The tubular flowers dangle enticingly from the plants. This suits hummingbirds perfectly. They hover at the blossoms, and their long beaks and tongues probe down the throat of the flowers for nectar. Hummingbirds don’t have a sense of smell so these plants don’t waste energy making fragrance. Sweet nectar provides fuel for the high metabolism of the hard working partners. Plants pollinated by hummingbirds include penstemons, sages, chuparosas, and Arizona yellow bells.

Chiropterophilous plants are adapted for pollination by bats. These plants unfold their flowers at night. The heavy blooms are positioned high overhead and pointed to the skies. Heady scents float on the night air, and plentiful amounts of pollen are proffered to passing creatures. The amino acids contained in the pollen match the bats’ nutritional requirements precisely. Sugars in chiropterophilous plants propel the northward migration of lesser long-nosed bats. These mammalian pollinators chase the bloom of organ pipe and saguaro cacti north through the Sonoran Desert each spring. In the fall the bats fly south boosted by shots of nectar offered by blooming agaves.

Among the most essential groups of pollinators on Earth are the bees. Female bees of nearly all species forage for nectar and pollen. Flowering plants provide the proteins and sugars the adult and larval bees need to survive. Because of bees, plants are able to produce seeds for subsequent generations of plants. Because of bees, plants produce fleshy fruits and fat berries that feed birds and mammals. Palo verde trees, a keystone species of the Sonoran Desert are pollinated by swarms of species of native bees; including seven species of solitary bees, sweat bees, leaf-cutter bees, bumble bees and carpenter bees.

Moths, those less glamorous and more nocturnal cousins of butterflies, are important pollinators of native plants. In the larval stage we call their caterpillar’s hornworm, looper and armyworm. All of these species are capable of denuding a plant in no time. For the most part, adult moths feed opportunistically on nectar provided by a wide variety of flowers. However, small white moths of the genera Tegeticula and Para-tegeticula have a strictly mutualistic arrangement with yucca. The moths evolved with mouthparts perfectly suited to actively fertilize yucca plants. They ball up a wad of pollen and stuff it into the cavity of the stigma, then lay an egg on the bloom. The young caterpillars hatch and feed on the seeds that follow the flower.

Beetles, ants, white-winged doves, butterflies. These are all pollinators that strive to ensure the success of the plants they depend on. Monarch butterflies have a close relationship with milkweed plants. These migratory butterflies must lay their eggs on milkweed along their migratory corridors as their caterpillar young eat only milkweed. However, Monarchs have not been able to protect milkweed along their migratory routes from eradication. Herbicides and habitat loss are wiping out these hardy weeds, leaving barren stretches the butterflies must traverse without feeding or laying eggs.

Plants are the most recognizable elements in a biotic community. Pollinators are surely the least obvious and least appreciated members. But if not for the pollinators to ensure seed set, flowering plants would soon disappear. We are recognizing the importance of pollinators even as their numbers plummet. Native plants, fruit, and vegetable crops suffer from lack of pollinators as overuse of herbicides and pesticides and fragmentation or outright loss of habitats impact these crucial partners of plants.

It’s not news that loss of biological diversity is already underway on our planet.Warning signs from wild habitats that have suffered disruption should be heeded by us all, because that is only half the truth. Agricultural crops are affected as well. One in every three mouthfuls of food a person eats is prepared from plants pollinated by animals. This is surely food for thought.

Sources:
A Natural History of the Sonoran Desert edited by Steven J. Phillips and Patricia Wentworth Comus
The Forgotten Pollinators by Stephen L. Buchmann and Gary Paul Nabhan
While every animal has its place as a cog in the great natural machine, only a handful can rightly claim to play an outsized role, not merely as participants, but driving forces, engineers of sorts, whose actions help keep the whole thing in motion. The beaver once occupied a special niche as the engineer of the American wilderness, at least until colonial-era trapping all but obliterated them from many of their ancestral habitats. Modern conservation efforts have made strides in combatting the sheer scope of that devastation by reintroducing beavers into their former territories, such as they still are. And while such methods have proven somewhat controversial, since there are few landscapes left where the beavers can go about their work free of interaction with the labors of man, it should be said that this program is about more than just correcting the near-fatal exploitation of a classic American mammal. Beavers, after all, are Mother Nature’s mechanics, and as these reintroduction projects have recently shown, when it comes to repairing long-standing damage to the natural world, the work is often best left in the hands, or rather paws, of those that know it best.

The largest rodents in North America, these sixty pound, wood-hungry watermen do far more than chew trees, dam rivers, and create ponds; prior to being systematically purged from territory after territory, millions of beavers oversaw the continual restoration of habitats from coast to coast. They do so on a necessarily smaller scale now, though one that has gradually expanded as more releases demonstrate the value of their restoration. Each step in their timeless process provides distinct benefits to countless species of both flora and fauna, as well as to the very soil itself. The dams and lodges they build to protect themselves and their families have the secondary effect of diverting streams and rivers, creating new riparian areas. These newborn wetlands offer shelter and food to myriad creatures, while simultaneously providing spent soil a chance to recover, lying fallow beneath nutrient-rich water from the resulting flood. The cycles of the natural world, each inexorably locked together, are on full display in the beavers’ handiwork. Once upon a time, other species planned their own behavior around this renewal process, with some leaving and others arriving in tune with the changing landscapes brought about by these incredible construction projects.

1 https://www1.maine.gov/ifw/pdfs/species_planning/mammals/beaver/speciesassessment.pdf
Typically, beavers themselves only remain in a given area for a period of two or three years, after which they move on, leaving their dams to decay. This does not mark the end of their contribution, however, but simply the next step in their janitorial upkeep of the surrounding landscape. Without the maintenance provided by their former inhabitants, the dams inevitably give way to water pressure; the river or stream rights itself, regaining its original course. The surrounding riparian areas drain, exposing that long-inundated soil, which suddenly returns refreshed and more fertile than ever, ready to cater to an entirely new set of flora and fauna, all while the masterminds themselves repeat the process further down river. The environmental aftereffects of such a dramatic decline in a keystone creature are still being contemplated, but rarely can it be said of a single species that so much depended upon it.²

So where are these engineers now? Pre-Columbian population estimates place the number of beavers in North America prior to European colonization at somewhere between 60 and 400 million.³ A 1988 survey, conducted long after the end of large-scale fur trading, and with the beavers benefitting from regulations managing future trapping, concluded that roughly 10-12 million beavers remained in North America, a slim shadow of a species that once worked its magic all over the land.⁴ Today, not only is the species itself starting to recover, but newly released animals waste no time restarting the long-stuck gears, with significant habitat improvements reported in states all across the country.⁵ After all, when it comes to repairing any machine, nobody knows it better than the ones who helped build it.

² http://adsabs.harvard.edu/abs/2008AGUFM.H11F0830S
⁵ http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4931505/

Wildlife belongs in the wild. To respect wildlife is to respect the world and everything in it.

Julia Barr
Since Liberty Wildlife entered into an agreement with the U.S. Fish and Wildlife Service to establish the Liberty Wildlife Non-Eagle Feather Repository in late 2010, we have distributed feathers to approximately 2,700 Native Americans, representing 171 different tribes, located in 43 states.

These feathers are used by Native Americans to create religious, ceremonial and dance regalia: coats, skirts, bundles, head dresses, fans, prayer sticks, and other ceremonial implements.

Native Americans throughout their history have sustained a special relationship with the animals in their natural world, particularly birds of prey: eagles, hawks, falcons, owls, and vultures. It is this relationship that shaped their belief system, manner of worship, ceremony, dance and song.

Vital to the preservation of Native American cultures is their ability to access feathers from which they create the regalia essential to the ceremonies that define their cultural beliefs.

As one of only two legal sources of non-eagle feathers in North America, Liberty Wildlife plays a pivotal role in supporting Native American cultures, a role we are committed to maintain and expand in the future.

Liberty Wildlife is in the unique position of being able to take feathers that have fallen to earth, that are no longer able to fly, and give them new life, allowing them to soar once again – in Native American ceremony, dance and song.

Recycling the past to give life to the future.

PHOENIX RISING

by Robert Mesta
Geocaching Links Technology and Nature at new Liberty Wildlife Facility

by John Glitsos, Liberty Wildlife Volunteer

In September of 2000, three technology experts in the Seattle area launched a worldwide phenomenon whose primary purpose was to get people out of their armchairs and into nature to hunt for hidden “treasures” using GPS technology. One of the early indicators that this game was going to be important was seeing a previously videogame-addicted young man get up and go outdoors to find a “cache” as the treasures are called.

Today, their game, Geocaching, has over 10 million members, and nearly 3 million caches hidden in 180 countries worldwide. There are caches on the International Space Station, in the Mariana Trench of the Pacific Ocean, and in some of the most beautiful and amazing locations around the world, including a glacier in Greenland.

So what does this have to do with the new Liberty Wildlife facility in Phoenix?

Liberty Wildlife volunteer, Balinda Strosnider, an avid geocacher (with over 4,000 found) had an idea. When our facility was still chalk marks on a dirt lot, Balinda looked at the Geocaching app on her smart phone and realized two things: there was a nature trail immediately behind the property, and there were no geocaches for at least 2 miles in either direction.

She prepared 20 small containers by spray painting them to match rocks, fences, and vegetation in the area. Then she inserted a small paper log sporting the Geocaching logo. This allows people who find the cache to record their find physically, at the same time they record it electronically via the app. Then she mapped out the locations for this new series of caches called “The Raptor Series.” She saved the best location, the front near the Liberty Wildlife sign, for a larger cache that will have small items to trade – take one, leave one – which is a Geocaching tradition. That one will go live just before Liberty Wildlife’s Grand Opening in November.

Each of the caches in the Raptor Series is named after a different species, including bald eagle, zone-tailed hawk, great horned owl, and American Kestrel. There are a total of 19 already in place. They stretch from 16th Street on the west to 32nd Street on the east. They are spaced about a quarter of a mile apart, and hidden carefully, so that just getting the coordinates right is not enough. You need observational skills, and a good deal of patience to find each one! (See photo below)

Cleverly hiding the caches is another characteristic of Geocaching that makes the game more fun and challenging, and differentiates it from Pokémon Go, which only requires you to be at a location looking diligently at your device rather than the world around you.

With geocaching the person who places the hidden treasure can go to any length to make it fun and challenging. For example, a stop sign might hold a hidden mini-cache, and the cache itself could be camouflaged to look like one of the bolts anchoring the sign to the post!

By placing the Raptor Series, Balinda hoped she would be encouraging Liberty Wildlife visitors to go outside and search for some geocaches while they were there. She also hoped that the series would provide information to people who were on the Peace Trail behind our facility. Her hopes were quickly realized. Within a day, the first geocacher to find the series remarked back to her that he had never heard of Liberty Wildlife, was intrigued and encouraged by the work we do, and was looking forward to the Grand Opening so he...
What to see at
Liberty Wildlife

by Megan Mosby and Carol Suits

The welcome mat is out, offering many sights, fun and educational activities and options! Here’s an overview of what to expect when you visit.

The Lobby

There is so much to take in as you enter the lobby. You are greeted by a view of Piestewa Peak and the wetlands and the fascination of an airplane taking off or landing, or maybe what catches your eye is the osprey flying over the Rio Salado River. There are two digital signs conveying much interest, including the sustainability features of the facility and their benefits, a nature film and an up-to-date calendar of events. The electronic donor board in itself is a thing of beauty...unique and elegant at the same time. And should you care to make a donation or shop at our store, here’s the place to do it. What a great start to a fabulous tour of The Rob and Melani Walton Campus of Liberty Wildlife.

The Walk-Through Aviary

A peek through the windows of the large classroom will let you sneak up on a desert vignette replete with song birds, lizards, small mammals, wading birds and other surprises that can be found in our walk-through aviary. The aviary affords an opportunity to watch a number of species unnoticed by the resident creatures. Observers will be able to see what they are doing, what they are eating, and how they relate. Be sure to check the monitors in the lobby to find out when guided tours through the aviary are scheduled.

The Mueller Education Trail

The Mueller Education Trail winds its way through the education ambassadors’ enclosures. Each pavilion houses a different avian species with a viewing front allowing the trail blazer to glimpse the charismatic animals used in our educational programming both on and off campus. Signs inform you of the kind of wildlife that you are viewing and a hand-held map of the area gives you specific information about that bird. A QR code accessed by your smart phone will take you directly to more information about the species that you can read about at your leisure.

The Living Laboratory

The Living Laboratory is an interactive room which houses our reptile, amphibian and insect collection used in our off-site and on-site education programs. Our experienced staff will be thrilled to educate you about native reptiles, and on special occasions hands-on opportunities will exist. This room is home to our live cam monitors linked to our foster care cages. You will get a close-up view of four different raptors fostering orphans of their own species preparing them to be released back into the wild. Staff and volunteers are allowed to enter these foster cages only in camouflage so this personal peek into the process will thrill all! Displays, seasonally appropriate, will inform the guests about natural history of native wildlife including insects, mammals, reptiles, amphibians and birds. Children of all ages will enjoy many hands-on activities designed to encourage exploration and learning about the natural world, conservation and sustainability. There’s a reading corner for the very young and a smart board/touch screen providing fascinating learning experiences.
The Gila River Indian Community Education Center

This large room abounds in natural beauty. One side looks out on the amphitheater, another affords a view of the mountains, the wetlands, and the grounds with glimpses of the river banks in the background. The room houses a classroom for presentations, speakers, films, group activities, and any number of other uses. From inside there are windows into the aviary allowing students to spy on a desert vignette. By observing through these portals in the wall students can learn lessons in identifying species, their behaviors, and interspecies interactions. Large screen presentations make the room very versatile and cutting edge informative. Fold in the views, the beauty of a desert sunset, and you have it all.

The Amphitheater

This lovely spot has more possibilities than you can imagine. Wildlife presentations for up to 200 people in the beauty of the outdoors is perfect during most of the year. A spot where there is always a gentle breeze will make a pleasant opportunity to watch the eagles fed by handlers while learning about the natural history of these beautiful creatures. Guest speakers will enlighten the audience on any number of subjects. It will cradle Liberty Wildlife educational programs for on-site guests and will be the scene of releases of rehabilitated wildlife.

Surrounding the amphitheater will be interactive displays related to natural history of Arizona and particularly of the Sonoran Desert. Compare your “wingspan” to that of a condor, eagle, hawk, or an owl. Test your strength against that of the talon strength of one of these birds. See if you can tell what creature has stepped there before you. Have a comfortable view of the wetlands through the seasons. This is education at its best. Natural history in the raw. Bring your binoculars or use a pair of ours and see what you can see as wildlife visits our wetlands, the river beyond or the sky above.

The Wetlands (photo below)

Take a minute or more to enjoy the serenity of our wetlands. Signage around the area will explain the importance of wetlands, and the attraction of birds, mammals and insects will add interest to the serenity. This area features a pollinator garden and a butterfly garden. This is a peaceful spot to absorb.

The Rodel Library and Meeting Room

Our little library is small but mighty. A convenient spot for small meetings, for delving into research material or to read one of the many age-appropriate books is possible. If you can concentrate on books and computers instead of staring out at the lovely view, you are welcome to use our resources!

Medical Confidential Exposed

Normally off-site to the public our triage and surgical rooms can be surreptitiously viewed by the public by walking east of the wetlands to the viewing windows over the benches. Surgeries and planned triages will be announced on the daily schedule in the lobby.
This schematic of our facility provides visual information regarding public/education areas (in blue) and off-public/rehabilitation areas (in red).

Photos (left to right):
1. Volunteer group preparing ground for rehabilitation flight enclosures
2. Measuring for perches
3. Completed eagle flight enclosure
4. Resting after a hard day’s work!

Photos by Terry Stevens
Biome: A large community of plants and animals that occupies a distinct region/major habitat.

In Arizona, the Sonoran Desert has an annual precipitation average of 10 inches or less. Water becomes a precious resource to be husbanded carefully, responsibly, and in a sustainable manner by those humans who share this biome with the vast diversity of flora and fauna that survive here.

It is all about balance. The native wildlife of the Sonoran Desert occupy their own special niche in scrub/thorny desert, chaparral/grasslands, riparian, and wetlands. Often there are overlapping territories and complimentary survival tactics. A simple yet complex example is that of the river beaver who builds a dam creating a backwater where plants can take hold to create the unique ecosystem of a riparian community. This area of increased vegetation will also aid in purifying the air and water with natural biofilters. Fish and aquatic reptiles find a rich food environment and flourish. Birds are then attracted to the wetland areas to feed on insects, build nests, and raise young. Some avian residents will hunt the aquatic creatures. Rodents move in, attracted not only by available water but by plants and seeds. In turn, larger predators from the upper Sonoran chaparral and desert grasslands such as hawks, coyotes, and foxes will make hunting forays to help keep the rodent numbers in control.
Removing wildlife or altering the habitat with just one or two changes will disrupt that delicate balance. No larger predators will lead to an increase in the rodent populations, which then decimates plants, possibly causing erosion and increasing downstream flooding. No beavers and the riparian scenario does not happen. Diverting or using water wastefully will alter the dynamics of regenerating ground water in the riparian area. Planting nonnative plants will push out native vegetation, potentially disrupting native wildlife food supply with far reaching negative impacts on a tenuous life zone balance.

A fundamental tenet of the Liberty Wildlife mission and vision is community education. Armed with information and appreciation of the beauty and fragile world of our wildlife, each individual can be better prepared to make wise choices in the use of resources enabling the survival, protection, and preservation of our natural world.

We must preserve the balance.
Wildlife

This Page
Top: Great blue heron - Alan Spencer
Left: Merlin - Christy van Cleve
Right: American kestrel - Mike Ince

Opposite page
Clockwise from top left:
Harris’ hawks - Kenny Wilkins
Bobcat - Matt VanWallene
Ferruginous hawk - Kenny Wilkins
Prairie falcon - Christy van Cleve
Vermillion flycatcher - Alan Spencer
While the order of events an animal goes through when it arrives for care at Liberty Wildlife has not changed much, the manner in which the activities are accomplished have improved dramatically.

1. As has always been the process, the Hotline volunteer speaking with a caller will determine if an animal will arrive either from the public through the intake window or via a Rescue and Transport volunteer. In either case, once at Liberty Wildlife, the first step is logging the animal into our medical database. The facilities for intake and data entry have been expanded and improved and a special dedicated intake area with more space and accessibility has been provided for the intake volunteers.

If the new arrival is a baby bird found in a backyard, there is now a separate room for raising the cutest arrivals! No longer is Orphan Care sharing space with, and responsible for, the intake window process.

The next stop is triage where the Medical Services team gets their first look at the new animal, and the exams and evaluations begin. While at the old facility this takes place in another part of the same room as the intake, in the new building there is a separate, dedicated room set up for triage. It has the latest equipment and facilities for providing a full exam no matter what the species.

2. In the past, if x-rays were needed, we would have to schedule them at the convenience of one of the local veterinary clinics that would allow us to use their equipment, or wait until the next time our volunteer veterinarian Dr. Sorum brought in his portable unit. This delay could be crucial if life threatening or critical injuries were present. Now, depending on what the initial exam uncovers, an animal can go directly to the radiology room for digital x-rays, or if x-rays are not required, make a short move across the hall to the Intensive Care Unit (which, at the old facility was also in the same room as intake and triage) where treatment can begin. If a blood test or other microscopy is required, we also now have our own lab where some of the testing formerly outsourced can be done on-site, again leading to quicker diagnoses and treatment.

3. If surgery is indicated, our new surgical suite is next on the list of stops for the patient. At the original facility, operations were performed with a used dental exam light illuminating the same table used for triage. Now we will have a separate room for surgery prep with a door directly into the surgical room where true state-of-the-art O.R. lighting will help the surgeons perform this task on actual surgical tables with oxygen from a central system and a real-time display of digital x-ray images available right in the same room. We have gone from being a “M.A.S.H.” unit to being a true modern hospital in every sense.

After surgery, the animal can return to the ICU for recovery prior to being moved outside for exercise therapy and eventual release. Even the flight/exercise training is improved as we now have enclosures of various sizes and lengths from 30 feet up to 180 feet, incorporating angled turns and feeding troughs. Some of these can hold water to contain fish for immature or injured bald eagles to practice their own unique hunting skills (see photos page 15).

After recovery is complete and an evaluation shows the animal is able to survive in its native habitat without fur-
ther assistance, it is taken to a suitable place as determined by our biologists and veterinary staff for release. Of all the things that have changed by moving to a new, clean, modern facility with almost every convenience that can be imagined, the release procedure will not be changed. It remains one of the shortest, most satisfying events along the rehabilitation road.

Upon arrival at the determined location, a short history of the animal’s stay with us is recounted (if any people are present), and the carrier is opened, and the bird or mammal exits, usually too fast for even cameras to follow. No one who witnesses the release or sees the animal in the wild in the months to come will ever realize the dedication, skill, and modern technology that went into bringing this creature back from the brink of almost certain death to again performing its designed function in the environment we all share on the planet!

See the schematic on pages 14-15 for Medical Services room locations at Liberty Wildlife

How You Can Help

Links to Liberty

www.facebook.com/libertywildlife
www.twitter.com/libertywildlife
www.libertywildlife.org/publications/blog
www.libertywildlife.org/publications/nature-news
www.libertywildlife.org/public-calendar
www.libertywildlife.org/publications/wing-beats

Donate, Sponsor

www.libertywildlife.org
Sponsor an Ambassador
Join or renew a membership
Dedicate a brick

Shop

Fry’s: www.fryscommunityrewards.com
Amazon Smile: www.smile.amazon.com
Liberty Wildlife Store: www.libertywildlife.org
Liberty Wildlife is inviting kids to explore ways to engage with nature through activities on and off campus.

The on-campus program provides age-appropriate volunteer opportunities. Some may help in animal related activities such as cleaning and feeding small birds and mammals in aviaries, caring for mice and insects, tending the butterfly garden, or helping to grow things. Others may work on projects such as aquaponics or developing a composting system. Those interested in assisting the public may work in the Living Lab helping staff and volunteers or spend time at the intake window where the public drops off injured or orphaned wildlife. Volunteer opportunities for the very young with their parents can include assembling berry baskets for orphaned baby birds and other similar activities.

Off-campus activities can be for all ages, getting the community involved at school, work, the neighborhood, or house of worship. Here are some to consider:

- A project collecting paper towels and food for baby birds, collecting and delivering fresh produce, seed and food, fund-raising for wildlife care and release are a few of the many ways individuals and families can help support Liberty Wildlife.

- A fun way to help directly impact wildlife welfare is to be a part of our “Cleanup for Wildlife” Meetup activities found at www.meetup.com/Cleanup-to-Save-Wildlife-Meetup. Here is a chance for everyone to help wild animals by picking up fishing litter at area parks – before it injures or kills a goose, duck, turtle, or fish. You can help by spending 30 to 45 minutes while enjoying one of our beautiful area parks, and meeting great, like-minded people. This activity is also perfect for teachers, coaches, church groups, and others that want to help us help wildlife. You can even schedule your own cleanup events at a park near you – tell your friends and see how others on Meetup will join you to clean it up. We can assist you in becoming an administrator for the day on the website.

- We also have an extensive off-campus education program for the classroom. School teachers and administrators contact us to set up appointments. If your school or class is interested in having us bring some of our educational ambassadors, please have them go to our website, www.libertywildlife.org to request a program.
American Kestrel

Nest Box Program

by Nina Grimaldi

Often times when I am holding an American kestrel at an education event, people will ask me, “What is that?” It surprises me that so many people have never seen one, but then again, they are small and often inconspicuous.

Kestrels are our smallest falcon. They are often seen sitting on power lines, in palm trees, or hovering over a golf course or farm field. Like so many other bird species, kestrel populations are declining. From the many bird surveys done annually, including the U.S.G.S. Breeding Bird Survey and the Christmas Bird Count, it has been revealed that the kestrel population has declined by approximately 1% annually. One of the reasons for this decline is loss of habitat. Kestrels are cavity nesters, and they are often found in open fields, forest edges and in urban areas. As farms are turned into houses, their roosts and perfect nesting sites are disappearing.

The Peregrine Fund has begun a program called the American Kestrel Partnership. This program takes data collected from across the U.S. to help keep the kestrel from becoming the next endangered species.

Liberty Wildlife will soon join in this effort, and we need your help. Liberty Wildlife’s Research and Conservation Department will become one of the many partners collecting data. In order for this to be a success we will need to place nest boxes around the valley and around Arizona. We will be creating an Adopt-a-Kestrel nest box program. Adopting a kestrel box helps both Liberty Wildlife and the American Kestrel Partnership maintain this study. Funds will go towards replacing boxes, purchasing supplies, and supporting our biologists working on this project. Your adoption will be tax deductible. We welcome classrooms, homeowners, and business owners to please consider becoming a part of our program by adopting a box. One of our biologists will place the nest box in an appropriate area and will visit that nest box two times during the nesting season to collect the data. You will receive a report on the activity of your nest box and the overall data collected from that season.

We are very excited to join this partnership and be a participant in helping conserve the American kestrel. You will soon be able to visit us at our new facility where you can visit several of our kestrels and learn more about these beautiful and lively little falcons. More information will be posted on our website www.libertywildlife.org as soon as the program starts.

You can visit the Peregrine Funds website for more information about the American kestrel and the nest box program https://kestrel.peregrinefund.org/. If you would like to build your own kestrel box you can follow these simple directions: http://wdfw.wa.gov/living/projects/nestboxes/kestrel_nest-box.pdf
could visit with his family. He was also surprised by many of the facts about great horned owls. A win for all involved.

If you want to try Geocaching, membership is free. Sign up at [www.geocaching.com](http://www.geocaching.com). You can also download the free app for Android and Apple smart phones. Having the app is not essential but is very helpful. With a couple of clicks you can locate hidden caches near you, no matter where you are in the world. Click on any of them and see its history, in-depth information, and clues that might help you find it. Balinda used word anagrams to spell out clues for the Raptor series, so it takes a little extra work, but makes finding the cache a lot easier. Although your smart phone will get you within 10 feet of her caches, they are hidden under rocks, planted in cracks between fence posts, and otherwise obscured from the casual passerby (known as “Muggles”).

Geocaching is a great family activity, especially here in the Phoenix area. There are “Power Trails” like the Raptor Series along the Rio Salado and all over town. Along the canals, streets, park trails, and golf courses you can find dozens of caches on a single bike ride or walk. Kids love the game and love it even more if they are playing with mom and dad. Can you think of a better way to spend an afternoon?

One of the most earth-friendly features of Geocaching is CITO, Cache-In-Trash-Out. Like Liberty Wildlife, the Geocaching website and community is committed to removing trash from the environment. They sell shirts, mugs, and souvenirs sporting the CITO logo and theme, encouraging everyone who is geocaching to remove trash from the environment as they hunt for caches. There are even CITO events where geocachers meet, clean-up the area and earn a “find.”

Travel Bugs are another fun element of the game. These are unique identifying numbers placed on a “dog tag” that can be affixed to anything that moves around. Luggage, cars, hats, and shirts are typical travel bug locations. Whenever a geocacher sees and logs your travel bug number, the exact location on the world map is recorded along with the time and date. You can then see exactly where your nomadic item has been “found” by geocachers – via a map on the Geocaching website.

What a great way to learn, get outside, engage with others, learn to solve problems creatively, clean-up the environment...a win-win situation!

---

Please join our ‘Wings of an Eagle Legacy Circle’!

You can give a legacy gift to Liberty Wildlife, Inc. by including us in your will or estate plans.

These are samples of bequest language that you can include in your will or by adding a simple codicil. Please feel free to change the numbers or percentages as you desire:

1. Bequest of cash
   “I bequeath the sum of $10,000 to Liberty Wildlife, Inc.”

2. Bequest of a percent of the estate
   “I devise and bequeath 20% of the remainder and residue of property owned at my death, whether real or personal, and wherever located to Liberty Wildlife, Inc.”

For more information, contact Megan Mosby at 480-998-5550, #2 or megan@libertywildlife.org or Kim Parrott at 602-541-3781 or kimparrott918@hotmail.com
Rentals Opportunities
at The Rob and Melani Walton Campus
of Liberty Wildlife

**East Wing:**

1. Training room will have data drops, smart board, sink and cabinetry, arrangeable tables and chairs and lovely views of the wetland, river with birds soaring over, and airplanes taking off in the background.

2. Medical services area could be rented out for medical training for veterinarians, certified vet technicians, and other medical related continuing education classes. The facility includes digital x-ray opportunities, laboratory, surgery, and triage with wet table, etc.

**West Wing:**

3. Small conference/library could be used by small groups (6-8). Table, chairs, smart board, computer, resource books, and views of wetlands, etc.

4. Board/conference room provides space for a larger group (15-20), staging for other events, smart board, catering opportunities, data drops, beautiful views.

5. Interactive/Living Laboratory provides hands-on experiences with animals, science related activities, reading corner, access to monitors to foster bird cages, smart board and data drops, designed for educational activities including a staff or volunteer to direct activities.

6. Education Center – This versatile room can seat 75 people, provides catering potential, a 70” smart board, data drops, possibilities for films, audiovisual productions, views into the desert vignette aviary, with sliding glass doors that open north to the wetlands and west to the amphitheater; appropriate for large gathering such as meetings or receptions.

7. The amphitheater easily seats 100+ people with a center staging area. View of the wetlands and courtyard, staging possible for music, presentations, weddings, etc.

8. Wetlands Overlook and grounds, scenic area with a stage-like setting. Seating for 22 ten-top tables, lighting in trees and grounds, beautiful especially in the early morning and evening. Opportunities for catering.

Call for more information on pricing, reservations, and additional opportunities (480-998-5550, #2)
Sustainability ...continued from page 5

Indoor
• Interior spaces take advantage of natural daylight and views to landscape (photo top right and photos page 25)
• Attention to air quality in the building, including the use of low-emitting materials
• Designed for thermal comfort of building users

Education
• Environmental education and conservation programs that support living in harmony with nature
• Outdoor amphitheater and classroom support educational programming for large groups
• Facility supports educational outreach programs across the state (photo on the right)

Photos this article by Terry Stevens

“If we want children to flourish, we need to give them time to connect with nature and love the Earth before we ask them to save it.”
David Sobel

Liberty Wildlife Legacy Award 2016

Each year Liberty Wildlife honors an individual, an agency, or a corporation who has contributed greatly to the betterment of the natural world. This year’s Award was presented at Wishes for Wildlife to the Bald Eagle Nest Watch Program. For years, dedicated groups of biologists and nest-watchers have camped out in view of protected bald eagle territories to monitor the well-being of these charismatic creatures as they attempt to nest, lay eggs, and fledge babies. This valiant group, the Bald Eagle Nest Watch Program staff, has helped to bring this species from the brink of extinction in Arizona and has assisted with gathering data by banding for research, monitoring food deliveries and other behaviors, and by alerting officials if something untoward happens to the eagles in the process. Many of the adults and baby bald eagles have been helped by Liberty Wildlife and returned to the wild, thanks to the efforts of this program. Arizona Game and Fish Director, Larry Voyles (pictured here), accepted the award on behalf of the Bald Eagle Nest Watch Program and the many stakeholders who make it happen. Congratulations for the years of success and for the impressive impact it has had on our national symbol, the bald eagle.
2017

Join us next May 6th at the Omni Resort at Montelucia for another lovely event featuring our educational ambassadors and handlers, a one-of-a-kind auction, dinner, and the release of a rehabilitated owl. Please visit us at www.wishesforwildlife.org for more information. We would be thrilled to have you attend.

Wishes for Wildlife

2016

Our annual benefit, Wishes for Wildlife, was a wonderful event held at the Omni Resort at Montelucia on May 7, 2016. Honorary Corporate Chairs, Sharon and Ollie Harper (far right) and Benefit Chair Sharon Sneva (below), along with our Wildlife Guardians pulled off another coup. Our silent auction was as lovely as ever and afforded many opportunities to bid on unusual items and experiences, and the super silent auction and raffle hit the bullseye with guests.
Join or renew!

It is with your help that Liberty Wildlife has furthered wildlife conservation through quality rehabilitation, education, and consultation services. Because of your support and your interest in aiding wildlife, we hope that we can count on you to help us continue these programs.

Maybe it’s a good time to add a gift membership for a friend – or maybe raise your own membership level.

All members will receive the Wing-Beats newsletter electronically.

Cut along the dotted line and mail with check to:
Liberty Wildlife, Inc.
2600 E. Elwood Street
Phoenix AZ 85040

Annual Membership

- $25 Fledgling
  Supports the Orphan Care program
- $50 Explorer
  Provides funding for a school or youth Education program
- $100 Guardian
  Provides funding to support the activities of the Wildlife Guardians
- $250 Naturalist
  Provides funding for medical supplies for wildlife in our care
- $500 Conservationist
  Provides funding for major equipment, such as brooders
- $1,000 Steward
  Provides funding for technology to aid Medical Services and Education programming

My membership ____________
Gift membership ____________
Total enclosed ______________

My Membership

Name _______________________
Company _____________________
Address _______________________
City__________ State______ ZIP_____
Phone _________________________
Email _________________________
☐ Contact me about volunteering

Gift Membership

Name _______________________
Company _____________________
Address _______________________
City__________ State______ ZIP_____
Phone _________________________
Email _________________________
## Liberty Wildlife
### Operating Income and Expenses
**For the Year Ending December 31, 2015**

**Operational Income:**
- Donations: $920,989
- Wildlife services: $29,814
- Research & Conservation: $29,275
- Donated facilities and services: $186,694
- Special events and merchandise (net): $42,897

**Total Operating Income:** $1,209,669

**Operational Expenses:**
- Program salaries and related benefits: $138,416
- Wildlife food: $159,814
- Research & Conservation: $42,794
- Community education: $98,920
- Rehabilitation: $220,596
- Administrative expenses: $32,698

**Total Operating Expenses:** $693,238

**Operating income in excess of expenses:** $516,431

**Capital Campaign Contributions:** $385,775

### Liberty Wildlife Goes Grocery Shopping for Animal Food

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crumble</td>
<td>1,880 lbs.</td>
</tr>
<tr>
<td>Seeds</td>
<td>1,755 lbs.</td>
</tr>
<tr>
<td>Worms</td>
<td>159,350</td>
</tr>
<tr>
<td>Crickets</td>
<td>115,000</td>
</tr>
<tr>
<td>Mice</td>
<td>169,775</td>
</tr>
<tr>
<td>Rats</td>
<td>10,561</td>
</tr>
<tr>
<td>Rabbits</td>
<td>110</td>
</tr>
<tr>
<td>Quail</td>
<td>5,280</td>
</tr>
<tr>
<td>Chickens</td>
<td>2,898</td>
</tr>
<tr>
<td>Carnivore diet</td>
<td>91 lbs.</td>
</tr>
<tr>
<td>Trout/caplain</td>
<td>1,376 lbs.</td>
</tr>
<tr>
<td>Minnows</td>
<td>24,000</td>
</tr>
<tr>
<td>Fruits and vegetables</td>
<td>1,359 lbs.</td>
</tr>
<tr>
<td>Scratch</td>
<td>1,000 lbs.</td>
</tr>
<tr>
<td>Eggs</td>
<td>2,478</td>
</tr>
<tr>
<td>Exact tube formula</td>
<td>111 lbs.</td>
</tr>
<tr>
<td>Heads of lettuce</td>
<td>779</td>
</tr>
</tbody>
</table>

**Photos on Cover (left to right):**
- Bald eagle - photo by Kenny Wilkins
- Great blue heron - photo by Chris Gort
- Sharp-shinned hawk - photo by Christy van Cleve

**Photos on Back:**
- Sandhill cranes - photos by Mike Ince
Department Statistics for 2015

Medical Services, Daily Care and Orphan Care:

- Total animals assisted: 6,544
- Total orphans assisted: 3,406
- Number of species (see next page): 138
- Highest intake month - June: 1,459
- Total volunteers all shifts:
  - Medical Services: 47
  - Daily Care: 88
  - Orphan Care: 75
  - Hand Feed: 26

Education:

- Number of program requests: 319
- Total number of programs completed: 484
- Total audience size: 247,979
- Total number of tours: 106
- Total hours of programs presented: 2,033.383

Education volunteers’ program hours including travel to/from programs: 4,244.97

Number of Education volunteers in 2015-16: 64
Number of Education volunteers who did a program in 2015-16: 57

Conservatively, the value of volunteer time donated: $1,417,097.82 (61,426 hours of volunteer time x $23.07 per hour)

*Based on documented volunteer hours and figures from Independent Sector research.

Additional Support:

- Education: 55
- Hotline volunteers: 40
- Rescue & Transportation volunteers: 118
- Research & Conservation biologists: 4
- Cooperating veterinarians: 8
- Wildlife Guardian volunteers: 20
- Scientific Advisory Board: 4
- Non-Eagle Feather Repository Board: 4
- Publications volunteers: 13
- Board of Directors: 15
- Advisory Board of Directors: 20
- Total volunteer jobs: 537

Liberty Wildlife
Board of Directors

Richard Hayslip, Chair
Kathleen Lang, Vice-Chair

Kelly Barr
Emil Burr
Peggy Cole
Cay Cowie
Tom Henze
Debbie Longley
John Melamed
Megan Mosby
Kathryn Orr, DVM
Phil Schneider
Ken Vegors
William Weese, MD
Tracey Westerhausen

Advisory Board of Directors

Richard Adkerson
Missy and Lyle Anderson
Don Budinger
Richard Burnham
Terry Goddard
Victoria and Rod Granberry
Sharon and Ollie Harper
Karen and Bob Hobbs
Nan and C.A. Howlett
Craig Jackson
Rich Rector
Richard Silverman
Vern Swaback
Patti and Ken Vegors
Chip Weil
Deborah Wilson, MD

Cooper’s hawk - Photo by Christy van Cleve
2015 List of Species Assisted

**Birds:**
- Albert's towhee
- Allen's hummingbird
- American coot
- American kestrel
- American wigeon
- Anna's hummingbird
- ash-throated flycatcher
- bald eagle
- barn owl
- belted kingfisher
- black phoebe
- black-chinned hummingbird
- black-crowned night heron
- black-headed grosbeak
- black-necked stilt
- blue-winged teal
- Brewer's sparrow
- bronzed cowbird
- brown pelican
- brown-headed cowbird
- Bullock's oriole
- burrowing owl
- cactus wren
- California condor
- California gull
- Canada goose
- canyon towhee
- canyon wren
- cattle egret
- cliff swallow
- common loon
- common poorwill
- common raven
- Cooper’s hawk
- Costa’s hummingbird
- curve-billed thrasher
- double-crested cormorant
- flammulated owl
- Gambel's quail
- Gila woodpecker
- gilded flicker
- golden eagle
- gray hawk
- great blue heron
- great egret
- great horned owl
- greater roadrunner
- great-tailed grackle
- green heron
- Harris’ hawk
- hermit thrush
- house finch
- house wren
- Inca dove
- killdeer
- lesser goldfinch
- lesser nighthawk
- Lincoln's sparrow
- long-eared owl
- Lucy’s warbler
- MacGillivray’s warbler
- mallard duck
- mourning dove
- Nashville warbler
- neotropic cormorant
- northern cardinal
- northern flicker
- northern harrier
- northern mockingbird
- northern pintail duck
- northern rough-winged swallow
- northern shoveler
- orange-crowned warbler
- osprey
- palm warbler
- peregrine falcon
- phainopepla
- pie-billed grebe
- pine siskin
- prairie falcon
- red-tailed hawk
- ring-necked duck
- rock wren
- ruddy duck
- Say’s phoebe
- sharp-shinned hawk
- snowy egret
- Swainson’s hawk
- Townsend’s warbler
- turkey vulture
- verdin
- Virginia rail
- western grebe
- western kingbird
- western meadowlark
- western screech owl
- western tanager
- whip-poor-will
- white pelican
- white-crowned sparrow
- white-faced ibis
- white-throated swift
- white-winged dove
- Wilson’s snipe
- yellow-rumped warbler
- yellow-throated warbler
- yellow-bellied sapsucker
- yellow-breasted chat

**Mammals:**
- antelope ground squirrel
- cactus mouse
- cottontail rabbit
- coyote
- fox squirrel
- gopher
- Gunnison’s prairie dog
- jackrabbit
- javelina
- kangaroo mouse
- kangaroo rat
- little brown bat
- Mexican freetail bat
- pallid bat
- pipistreele bat
- raccoon
- rock squirrel
- round-tailed ground squirrel
- striped skunk
- western red bat
- white-throated woodrat
- yellow bat

**Reptiles and Amphibians:**
- African sideneck turtle
- African spurred tortoise
- Clark’s spiny lizard
- Colorado river toad
- common king snake
- desert spiny lizard
- desert tortoise
- fence lizard
- gopher snake
- patch-nosed snake
- red-eared slider
SPECIAL THANKS

To Our 2015 Donors

1st Christian Church of Scottsdale
7th Day Adventist Church
Aaronson, Jamie
Abel, Clare
Abernathy, Bill
Able, Anthony
Ackerman, Tiffany
Ada, JoAnna
Adams, Astrid
Adams, Barb
Adams, Dayton & Shelley
Adams, Kristine
Adams, Lynda
Adams, Sara & Alvan
Adams, Sarah
Adams, Tanya
Aetna Foundation
Ager Dental
Aguilino, Trish
AHC of Scottsdale, LLC
Ahi, Mrs.
Akins, Bonnie & Mike
Akridge, Jim
Alanko, Jill & Bert
Albert, Alan
Albert, Cheri
Alcorn, Samuel
Aldridge, Crickett
Alexander, Connie
Alexander, Joy
Alexander, Ken
Alfano, Sam
Ali, Muna
Allen, Sandra
Alofs, Cooper
Alofs, Emme
Alofs, Jake
Alofs, Susan
Alsevev, Ellen
Altenhein, Mara
Altman, Susan
Alvarez, Jimi
Amari, Amy
Amaral, Beverly
Amson, Teri
American Legion Auxiliary
Anderson, Charles
Anderson, Heidi
Anderson, Jeanette
Anderson, Kathryn
Anderson, Nancy
Andres, William
Andres, Ren
Andrews, Gail
Andrusko, Joan
Ann, Olney
Anthem School
Apache Trail Tours
Appelman, Cyndy
Appleyard, Judy
APS
APS Corporate Giving
Aquino, Steven
Arabian Horse Show
Araza, Kiyahna
Archer Family Trust
Archer, Marc
Arena, Faith & Paul
Argorta, Art
Arid Zone Trees
Arizona Aviculture Society, Inc.
Arizona Christian University
Arizona Coyotes
Arizona Diamondbacks
Arizona-Sonora Desert Museum
Arizona Utilities Supervisor Association
Arizona Wildlife Federation
Armstrong, Leann
Arola, Patricia & Dale
Aschieri, Jane
Asmus, Kandy
ASU School of Design
AT&T Employee Giving Program
Atkinson, Judith
Audubon Nature Center
Audubon-Rio Salado
Auschell, Denise
Avdra LLC
Avenetti, Cole
Avian & Exotic Animal Clinic of Arizona
Axtell, Richard
Arizona Game and Fish Department
Babinesau, Kelly
Bach, Connie
Backer, Erin
Bailey, John & Susan
Bailey, Linda
Bailey, Vicky
Bajoie, Tracie
Baker, Natalia
Baker, Christine
Baker, Dana & William
Baker, Margaret Padula
Baker, Sarah
Baldwin, Kitch
Ball, Lillian
Ball, Elizabeth
Ball, James
Bang, Kelley
Bank of America Charitable Giving
Banner Children’s Academy
Barber, Dale
Barbera, Sal
Barnes, Pamela
Barreda, Nicole
Barkman, Lisa
Bartlett, Scott
Bartlett, Steve
Barton, Cynthia
Bartrim, Jackie
Basililov, Aleksandr
Baseline Tree Co.
Batelle Employee Giving
Bauer, Margaret
Baxter, Scott
Baxter, Barbara
Baxter, Marie
Bayless, Betsey
Beard, Gorgonia & Dennis
Beck, Kay & Bill
Becker, Erin
Behinfroe, Renee
Bejemetz, Denise
Beland, Kimberly
Bell Mortgage
Bell, David
Bendalin, Evey & Sherman
Benevity Community Impact Fund
Benford, Luke
Bennet, Steven
Ben-Shabat, Janae
Bentacur, Ana
Benton, Rodger
Berger, Nan
Berquist, Kristen
Berry, Brett
Desert Botanical Gardens Docents
De la Rosa, Enrique
Deal, Laurie
Debiase, Mary
Deegan, Shawn
Deems, Pam
Deff, Pat
DeHaven, Stephanie
Del Ve, Barbara
DelaCruz, Francisco
DeMent, Stacie
Dennett, Marilyn
Desert Bell
Desert Botanical Gardens
Desert Cove Elementary
Desert Rivers Audubon Society
Desert Shadows Elementary
Detamour, Shannon
Dey, Susan
Deyoung, Jerry
DHS Main
Diaz, Marcela
Dicicco, Danielle
Dicke, Nancy & Frederick
Dig It Garden Club
Digati, Phil
Diggs, Lynn
Digital Air Strike
DiJulio, Ginn
Dillon, Debra
Dillon, Sage
Dinsmoore, Pamela
Dinsmoore, Daniel
DiRoberts, Robin
Disneyland
Dittert, Hans
DMB Associates, Inc.
DMHS Main
Dogs Etc.
Dolan, Janet
Dolbin, Robert
Dolce Soleil
Domele, Jaye
Domingo, Amanda
Don & Charlie's Championship
Dining
Donaldson, Larry
Donaldson, Scott
Donkle, Mary
Donley, Michael
Donnelly, Allison
Dons of AZ, Inc
Doornbos, Joellen
Dopke, Annette
Dowers, Judy
Downing, Debbie
Drake, Pamela
Drake, Paula
Drews, Jeffrey
Drexel, Kimberly
Drolet, Lanie
Droz, Judy
Du Plessis, Reinet
Ducksten, Sonia
Dueck, Patricia
Duffy, Josh
Dufour, Mark
Dugan, Colleen
Dunn, Danielle
Dunn, Steven
Duper, Vickie
Dupont, Christopher
Durkin, Shannon
Duval, Janet
DuVall, Lori
Eagle Mountain Golf Club
Earl, Jamie
Earl, Jennifer
East Valley Technical Institute
Veterinary Clinic
Eastwood, Charlene
Eastwood, Garry
Eckberg, Carrie
Eden, Rachael
Edison Electric Institute
Edmunds, Charles & Lisa Anne
Eduprize School
Edwards, Kathy & Tom
Edwards, Susan
Efune, Melanie Anne
Eggen, John
Ehbert, Barbara
Ehrmann, Clarice
Eichler, Diane
Eilers, Pam
Eisen, Eileen
Eklof, Wendy
Eldorado Hotel & Spa
Elery & Hazel Meyer
Charitable Fund
Elkins, Laurie
Enders, Mavis
Engisch, Margaret
England, Gloria
Englekinz, Savannah
Enochs, Jordyn
Environmental Fund of Arizona
EQ Inspirations LLC
Erdor, Ilona
Erickson, Lissa
Ernst, Shirley
Errett, John
Escarcega, Manuel
Esch, Morgan
Escobedo, Ana
Espitia, Nicole
Eudres, Helga
Eudy, Stephen
Evans, Phil
Evenson, Dianne
Evenson-Sanders, Hara
Exhilarate, LLC
Eye Care for Animals
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Farr, Lee
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Felden, Richard
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Ferguson, Jocelyn
Fern, Karen
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Fezza, John
Field, Jacob
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Figueroa, Eloise
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Finnell, Letisha
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First Christian Church Keenagers
First Christian Church of
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Fischer, Charlotte
Fischer, Erin
Fischer, Lucas
Fischer, William
Fisher, Alexander
Fishgold, James
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Fitzgerald, Jennifer
Fitzgerald, Pauline
Fitzmaurice, Debbie
Fitzpatrick, Jeremiah
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Flaherty, Tracy & Tim
Fleming, Phil
Fletcher, Carey
Flores, Cody
Flowers, Douglas
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Miller-Baker, Tiffany
Milligan, Susie
Minemyer, Darin
Minore, Dominica
Miottel, Matt
Mirello, Rose
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Mooney, Shirley K.
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Moore, Lawrence
Moore, P.
Moore, Sheena
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Morel, Adrienne
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Morris, Michael & Tracey
Morris, Payada
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Mosby, Babe
Mosby, Megan
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Mount, Cheryl
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Murphy, Carol
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Murphy, Jill
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Murray, Victoria
Murrell, Dan
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Musilli, Donna
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Nelson, Ronald & Georgia
Nelson, Shawn
Nemiro, Judd
Nesbit, Jennifer
Nestor, Lori
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Neve, Paul & Gretchen
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Newhagen, Jill
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Nichols, Steve
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Nienstedt, Kari
Niesen, G.
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Nuzzo, Joe
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Oman, Kelly
O’Neill, Sue
Ong, Lauren
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Vascik, Leo
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Verde Maison
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Weber, Lisa
Webster, Byron
Weese, Dr. William
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Weese, Curtis
Weese, James
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Wells, Lynn
Wessel, Kelly
West, Cara
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Westerhausen, Betsey
Westerhausen, Ethan
Westerhausen, J. Walden
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Wet ‘n’ Wild Phoenix
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Wheeler, Nancy
Wheeler, Joa
Whetstone, Kathy
White Tank Mountain Program
We apologize if we have inadvertently omitted or misspelled your name. Please let us know. Thank You!