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Wing BEATS

A publication of Liberty Wildlife

F a l l 2 0 1 4

A Deep Bench

**Liberty Wildlife
has been
actively
rescuing and
rehabilitating
wildlife since
1981**

Story by Gail Cochrane
Page 4

From the Director's Chair



Very quickly you can see that the theme of this WingBeats is the depth and diversity operating at Liberty Wildlife. Gail Cochrane's article introduces the reader to the depth of the bench in terms of volunteers and staff working for the organization. It is this depth that allows us to send out as many as six educational teams a day during the busy education season. One group may be headed to an educational session with linemen for one of the valley's utilities. Another three groups may be attending school classes ranging from 3rd grade to high school or veterinary tech training facilities. A fourth team could be heading for a scout troop or a gathering of home school students, and the last group that day maybe fascinating a retirement home...all in a day's work for a highly trained group of volunteers and their animal ambassadors. That kind of skill and depth of bench doesn't just happen. It is achieved through consistent training of both the volunteers and wildlife.

“We intend to make a difference in every educational endeavor we provide.”

Then there's the educational message. Claudia Kirscher commemorated the environmental message of the group of educators while the depth of programming is depicted in our *More than Entertainment* article. We intend to make a difference in every educational endeavor we provide.

Depth and diversity are both indicated in the number of species that we treat in a given year.

It is generally 120-135 different species of animals. It is one thing to learn how to treat the myriad of ailments that might affect raptorial species, but a totally different thing when you are charged with knowing as much as you can about the tending and care of over 120 different species with different natural histories, needs, and nurturing. Terry Stevens addresses the depth, training, and diligence not seen in many other places, while Susie Vaught's article on the Orphan Care Department depicts the depth of knowledge needed to care for so many species in a relatively short amount of time.

Greg Martin's discussion of imprinting and the hazards involved in rehabilitation is designed to assure the public that everything that can be done is being done to return the animal you brought in to us back into the wild in a healthy condition, both physically and mentally...and this last issue is very important.

Let's not forget the kids. They are included again this year. Parents, take advantage of all of the things found on the Kids Page. Carol Suits, among other things, a retired school teacher, has put her varied skills to the task of getting the little ones involved early on. The importance of that is unmistakable.

Once the new facility is open and the public is allowed to see the variety of things we do all in one place, the world will know how much depth we actually have. Nina Grimaldi, in charge of our Non-Eagle Feather Repository, has summarized the continuing success of this unique program designed to provide coveted but protected feathers to legally qualified tribal members from across the nation who are practicing religious and cultural needs. The statistics are impressive.

Our Research and Conservation Team has had long-term relationships with the local utilities and mining industry. To add depth to these services, we have added the alternative energy pros at Iberdrola to our list of corporations that we work with... more depth.

Our publications, including a weekly blog, a monthly e newsletter and our annual magazine, are penned by a rich tapestry of talented writers. Each of these gifted individuals brings a different set of skills to our educational publications. And, let's not forget our four books on different species, and Balinda Fortman's new children's books, all brought to you from a team of dedicated volunteer writers.

The mapping system that is utilized by our Hotline is a creation of a software writer, John Glitsos, who has also created a system for documenting all volunteer and staff hours. Not only can the public be sure that help is nearby, consistent and speedy, but they can also be sure that the numbers we quote for donated volunteer hours are documentable.

And, among other things, we present a number of ways that the public can help us carry out our very important mission. Clearly we provide depth of services for the community. In light of that there are a variety of ways the public can help us achieve our goals. Number one goal for this year is to complete our move to the Rio Salado. Alex Stofko's *Other Ways to Help* clues the public into online ways to donate to the cause. Our photo essay of *Liberty Wildlife on the River* directs the public on how to get involved in this momentous venture.

Read and enjoy our magazine for this year. It looks like professional photographers had a hand in this publication, but here, too, is the work of an incredibly talented group of volunteer photographers. Enjoy what you see. We are attempting to be as green as possible, so many of you will receive this electronically. If a hard copy is necessary, please let us know. And, let us know what you think of the new format.

Megan Mosby

Megan Mosby
Executive Director

WingBeats is an annual publication of Liberty Wildlife Rehabilitation Foundation issued to supporters of the Foundation.

Editorial staff: Megan Mosby, Terry Stevens, Carol Suits

Contributing authors: Gail Cochrane, Nina Grimaldi, Claudia Kirscher, Gregory Martin, Alex Stofko, Susie Vaught
Newsletter design: Cindy Gort

Cover Photo: burrowing owl

Back Photo: verdin, photo by Judi Stivers

For more information, please contact:
WingBeats Staff, Liberty Wildlife
P.O. Box 14345
Scottsdale, AZ 85627
Wildlife Hotline (480) 998-5550

Visit our website at
www.libertywildlife.org

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Proper Imprinting

by Gregory Martin

Imprinting is arguably the single biggest challenge in avian rehabilitation. Imprinting itself is the natural process where an animal looks to its guardian to form its sense of self. A red-tailed hawk chick raised by its parents will use its parents to determine that it, too, is a red-tailed hawk. It will learn where to go, how to act, and most importantly from a biological perspective, how to identify potential mates of the same species. Instincts guiding animals towards these goals are innately present, but imprinting keeps them from getting lost along the way. The difficulty, from a conservation standpoint, comes when the imprinting process is interrupted. Birds typically imprint upon their parents within the first few weeks of their lives, the actual length of time varying by a few days or weeks depending upon the species in question.¹ If you have orphaned birds in your care, which at Liberty Wildlife usually constitute a large share of our 3,000-4,000+ patients per year, you have the very real danger that those birds will imprint upon *you*, rather than their parents. And that means problems for both of you.

It's important to first distinguish between imprinting and acclimation. Birds are legendary for their ability to acclimate to human presence. Smaller birds like doves are quick to feel at ease around restaurant patios and other places where people are likely to drop food, more so if food is readily given to them. They will often show an utter lack of concern for our presence. That doesn't mean that they are imprinted, however. They've simply adapted to their situation, and are working the system to make the most of it. Likewise, birds of prey are capable of the same thing. The majority of the raptors in Liberty's education program are birds that were brought to the facility as adults; their injuries are severe enough that they

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Hand puppet feeding orphan baby bald eagle - photo by Terry Stevens

A Deep Bench

by Gail Cochrane

Over the years, the number of animals treated at the facility has skyrocketed. But Liberty Wildlife has fully fledged in other ways as well. The organization has broadened its scope and proficiency across a wide range of conservation issues, from seeding a spark of awe for wildlife and nature in schoolchildren to excelling in critical medical care for endangered condors.

Let's look at some of the ways that Liberty Wildlife has become a true community resource, assisting wildlife and people across the state.

Eagles top the list of avian predators, and Liberty Wildlife tops the short list of eagle experts in the Southwest. Staff and volunteers work closely with Arizona Game and Fish biologists to rescue eagles, from hatchlings found on the ground to adults brought down by illness or injury.



Jan Miller and Dr. Kathy Orr work on a condor

Dr. Kathy Orr, founder of Liberty Wildlife, is an esteemed expert on lead poisoning in condors, an endangered species of the Southwest. The Peregrine Fund manages the population of condors in the state and turns to Liberty Wildlife for help with the difficult procedures to leach toxic lead from sick condors. Without skilled medical intervention these majestic birds would die out.

Liberty Wildlife's Medical Team deals with gunshot wounds, premature fledgings,

poisonings, car accidents, window strikes, and avian diseases such as trichomoniasis. The hospital is managed by shifts of volunteer technicians, with back-up staff as needed. A cadre of specialized veterinarians gives unstintingly of their time and expertise to help the cause.* (see page 30)



Dr. Urbanz and staff examine a cardinal

Over the years, the Liberty Wildlife staff has developed the resources to handle the many types of problems wild animals can present, from minor and commonplace to extreme and rare. Don't forget the non-bird patients! Lizards, snakes, tortoises, and mammals from beavers to raccoons, jackrabbits to coyotes are also treated.

Electrocutions are a particularly vexing problem. An inviting perch nestled among high-voltage wires is an avian death trap. Liberty Wildlife's Research and Conservation Team partners with utilities to solve potential electrocution problems.

Burrowing owls are often impacted by construction projects, as they live in sprawling underground communities. In addition to sanctioned procedures to move entire

burrowing owl habitats, the Research and Conservation Team provides birds of prey demonstrations and natural history lectures for the employees of utility companies and private businesses. This helps the animals, and it helps public and private entities maintain compliance with state and federal rules around migratory species.

Non-releasable eagles, hawks, falcons and owls licensed to Liberty Wildlife are those deemed unable to survive in the wild. These fierce predators are brought along in specialized training programs that enable them to become charismatic ambassadors for their species in riveting education programs.



Joe Miller with Sonora on the Verde Canyon Railroad

The Liberty Wildlife Education Team gave 827 natural history programs in the past year, visiting classrooms and civic events across the Valley. Well-trained and well-cared-for animals provide people of all ages the chance to stare into the wild eyes of a raptor such as a great horned owl, to admire the exquisite beauty of its plumage, and to learn about its role in the Sonoran desert.

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Jan is flight training Lance, a Harris' hawk

photo by VCRR

Education Program...

More than Sheer Entertainment

by Megan Mosby

Our highly requested Educational Programs have many purposes beyond sheer entertainment...which they are in abundance. But, they are more...way more. Here are some examples of our educational programs offered throughout the state.

Booth Programs: often found at camps, state, city and county parks, community events, schools, scout troops, fairs, etc. The educators and their ambassadors pass on native wildlife information to thousands of people who visit the booth with questions and personal experiences. Well trained non-releasable wildlife allow the public to get a close view of wildlife neighbors.

Classroom General Educational Programs: these programs are designed to introduce students K-12 to native wildlife's natural history and place in the environment. Trained educators present various species of wildlife often at the advice of the teacher's needs. Students are encouraged to ask questions to further advance their curiosity and knowledge of native animals, their adaptations, and their important place in nature.

Sustainability and Wildlife: is a program that focuses on State-adapted skills per grade, using charismatic wildlife as an impetus to practice problem solving, researching, critical thinking, observation skills, math, writing, and speaking skills. The emphasis is on the importance of sustainable practices as they relate to the health and well-being of wildlife as well as humans.

Class to Field: has four elements. The educator introduces the class to a number of wildlife species providing the classroom teacher with follow-up activities. During the second session the educator presents a different set of wildlife species and the habitat it is so dependent on. Follow-up activities are left for the teacher to reinforce the presentation. In the third session another set of wildlife species is presented related to the kinds of things that get wildlife in trouble. Activities are left to let the students find ways to correct these deficiencies. The last session is a field trip to an area where the students can practice and display the knowledge they have gained over the class program.

After School Program: is a fun way to learn after the school day ends. Wildlife rivets the kids attention, and hands-on experiences keep them interested. Nothing is ever taught that doesn't encompass basic skills in a tricky and disarming way...they never know that they are really learning!

All Species Program: these programs are designed to introduce students to wildlife in categories. All owls, all hawks, all vultures, all eagles, all falcons, all accipiters, all reptiles are possibilities. It is a great way to do comparison and contrasts charts or Venn diagrams.

Photo above - kids visiting a Liberty Wildlife program booth at Kierland; photo by Terry Stevens



An all falcon education program



Waste Management Phoenix Open booth

Diverse species require diverse treatment

by Terry Stevens

If Liberty Wildlife provided medical service for only one species, it would certainly simplify both the required treatment and the equipment we'd need to accomplish our goal. Fortunately for the animals in Arizona, we're not limited that way. We take in any native species, whether avian, mammalian, or reptilian, and in doing so, we impose on ourselves the need to have volunteers trained in the rehabilitation of all the species that inhabit this great state along with the various tools with which to appropriately treat them. Now the job gets complicated...

Take tube feeding, for example. Naturally, when you're performing medical and rehabilitative procedures on species as varied as hummingbirds to California condors and everything in between, the need to be familiar with vastly differing anatomies is a daunting requirement. Lots of people think that all you need to feed an injured/orphan bird is an eyedropper. Although this might have worked on the Andy Griffith Show, in the rehabilitation world, there's quite a bit more to it. From hummingbirds to tortoises to California condors, the technique for tube feeding varies with the species.



A bat wing is examined



Birds' wings have different considerations

When dealing with widely differing species, even the techniques of examination are dictated by the physiologies involved. Naturally, reptiles will pose different problems than mammals or birds with similar presentations. For instance, a bat with an injured wing will be looked at in a different way than, say, a hawk.



Sparrow leg splinted with tape



A complicated brace on a bald eagle leg

When fractures are discovered, a wide variety of treatments are employed. Wings are repaired with a different set of tools and techniques than leg bones, and even leg bones can be treated differently depending on the species with the injury. A long-legged wading bird will need a



Baby hummingbirds are fed



Lead-poisoned condor is tube fed

"There is nothing in which the birds differ more from man than the way in which they can build and yet leave a landscape as it was before."

~Robert Lynd, *The Blue Lion and Other Essays*



Schroeder-Thomas splint on a heron

leg splint differing from that required by a sparrow or an eagle. Where a simple piece of masking tape provides a splint on a broken songbird's leg, a bald eagle with a gap in its femur from a bullet requires a much more sophisticated appliance. Wading birds get a Schroeder-Thomas splint, allowing them to stand while the bone heals.



Placing an IV needle in a tortoise



Damaged carapace requires tape, glue, and a clip

Not only are there a wide variety of avian species, but Arizona also plays host to a number of mammals and reptiles which periodically arrive at Liberty Wildlife presenting challenging injuries, all requiring unique knowledge and techniques for treatment. Mammals are especially problematic, as many diseases common to them are zoonotic – that is, they can be transmitted to humans. Small mammals can be treated with minimal extra precautions. Larger mammalian patients require greater care – and control. Only volunteers who have received rabies vaccinations are allowed to handle larger injured mammals.

Finally, when vastly differing species require surgery, accommodations must be made for extreme variations in size and anatomies. An operation on a tiny screech owl's eye is noticeably different than repairing the crop on a California condor or removing a growth from a large gopher snake. Not only are the anesthetics different from species to species, often tools and equipment need to be modified and adapted.



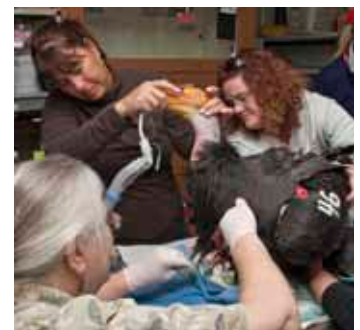
Small mammal being fed



A coyote requires special handling



Screech owl eye surgery



Operating on a California condor's crop

Reptiles present even more unique challenges in the rehabilitation arena. Even the smallest rattlesnake is dangerous, as is the Gila monster. Precautions while treating venomous reptiles require scrupulous adherence. The unique physiology of some amphibians also dictates some ingenious solutions while treatment is in progress. For instance, how do you administer IV fluids to an injured tortoise?

At all levels of wildlife rehabilitation, the ability and skill of the veterinarians and volunteers to adapt to whatever the individual species of animal requires at the time from rescue, transport, examination, treatment, and on to eventual release is a desired quality for this endeavor. Since it's almost never a "one-size fits all" situation, it's a good thing Liberty Wildlife volunteers are up to meeting perpetually changing animals that come in all shapes, sizes, and physical requirements.



Tiny rattler needs help

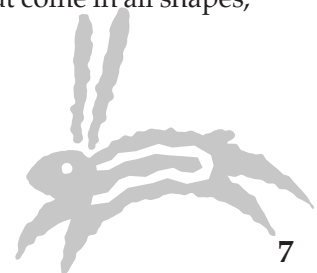


Treating an injured Gila monster



Surgery on an education gopher snake

photos by Terry Stevens



Make it Personal and Be Part of the Solution!

by Claudia Kirscher



Make every drop count

- Time your shower to keep it under 5 minutes. You'll save up to 1000 gallons a month.
- Install low-volume toilets.
- Turn off the water while you brush your teeth and save 4 gallons a minute. That's 200 gallons a week for a family of four.



- Plant native species which are drought-tolerant, require less water, and attract native insects, which in turn will attract native birds. <http://content.yardmap.org/explore> is Cornell Lab of Ornithology's site to identify the plants and insects for your region.
- Consider reducing turf grass areas and plant with drought-tolerant species and xeriscape landscaping.
- Mulch planting beds with newspaper, leaves, bark, or wood chips. Mulches retain soil moisture and improve soil quality.



Save those bugs (for now)!

- Birds are an efficient and natural way to keep your gardens and landscaping insect-free. During the spring nesting season, consider holding off on insecticides until those parent birds harvest bugs from your yard to feed their nestlings. While you wait for the baby birds to fledge, start your research now on homemade and natural insect repellents.
- Instead of toxic weed killers, how about a little exercise and elbow grease to pull up those weeds!
- Plant flowers and bushes that are natural deterrents to bugs. Remember to use native plants that will have defense mechanisms against native insects. Plant chives, marigolds, and penstemons around your vulnerable vegetables to discourage pests.



Citizen Science

Volunteer Citizen Scientists also make major contributions to data collection on rainfall, astronomy, weather, and insects, to name a few.

If you care about conservation of the wildlife of our planet, consider becoming a Citizen Scientist and contribute a few volunteer hours to help fill in the gaps of scientific data. It can be as easy as sitting in your comfy chair counting birds in your yard!



Sustainable Seafood - Why Should I Care?

Did you know that deep sea bottom trawling for shrimp catches over 80% non-shrimp species such as fragile corals and sea floor communities, starfish, and sea sponges as well as turtles, dolphins, and sharks? The sea floor is scraped as bare as a desert. Depending on the country of origin, 1 pound of shrimp yields between 2.5 to 4 (or as high as 25) pounds of bycatch. The bycatch of gill nets can include any number of non-targeted fish plus birds. More often than not, an estimated 25% or more of the bycatch is just thrown away, dead or dying, wasted.

Take the time to learn about which countries and fisheries are using sustainable management with use of pingers, large mesh nets, turtle excluder devices, grates which allow fish to escape, shrimp traps rather than trawling, and streamer lines to scare birds. Learn how your seafood is caught. Weigh the pros and cons of wild versus farm-raised.



Birds vs. Buildings

To minimize the risk of bird window collisions as much as possible, use several internal and external strategies. Several tactics joined together will have the greatest results for preventing these unnecessary injuries and fatalities altogether.

Design landscaping to keep birds away from your building's façade. Collisions are more likely to occur on windows that reflect vegetation.



Hazardous Holiday Decorations

A wide variety of seemingly innocent yard decorations can be harmful to birds, depending on how, when and where they are use.

For example, birds can become entangled and injured in fake spider webs, light strands, and/or garlands. Yard decorations can be poisonous if consumed or even prevent birds from finding secure roosting spots or shelter from predators.



Reduce the Plastic

Did you know: It is estimated that 80% of all plastic bottles are thrown away. Americans throw away 2.5 million plastic bottles per hour, and the world about 22 billion per year. It takes a plastic bottle 500 years or more to biodegrade. 7% of the total U.S. oil consumption is used for making new plastic. The average recycle rate of plastics is only 27%. Recycling 1 ton of plastic saves 7.4 cubic yards of landfill space.

You have all heard this before, but it is well worth repeating...there are alternatives to plastic bottles. Consider a filter system at home for tap water. This will not only cut down on your plastic consumption (and waste), but will save you \$\$\$. You can also recycle many of the filters (Brita filters for example will recycle).

Reduce, Reuse, and Recycle



The EPA estimates that the bulk of our garbage is made up of items that can be recycled or composted — 40% of it is paper, 17% is yard waste, 8% is plastics, and 7% is food waste. So just how long do items in our trash last?

Read on...

Paper bag.....	2-4 weeks
Cigarette butt.....	1-5 years (the #1 source of litter on beaches, per The Ocean Conservancy)
Wool socks.....	1-5 years
Disposable diaper.....	10-20 years
Leather boot.....	up to 50 years
Tin cans.....	80-100 years
Aluminum cans.....	200-500 years
Plastic bag exposed to air.....	10-20 years
Plastic bag buried in landfill.....	500-plus years
Plastic six-pack holder.....	100-plus years
Nylon fabric.....	30-40 years
Glass bottle.....	1000 or more years
Plastic bottles.....	500-plus years
Expanded polystyrene (common name Styrofoam).....	lasts indefinitely

Liberty Wildlife envisions being a permanent community resource, a place to instill compassion and stewardship in young minds and a place to reconnect the public with the beauty and benefits of native wildlife and habitat.

A Trip to Liberty Wildlife on the River



view of main building entry plaza

Entering from the parking lot at 2600 E. Elwood you will cross the Entry Plaza Arroyo, beautifully landscaped with native trees and plants framing the south side of the building.



entry court & overlook upon arrival



rehabilitation wing across wetland habitat

The Entry Court and Overlook warmly welcomes visitors. A prominent wall acknowledges donors to the Capital Campaign who helped to make the facility possible. At the end of the entry walk, guests will see the wetlands feature. The Education Wing, open to the public, is to the left. It houses a gift shop, display hall, an interactive and interpretive classroom, and a walk through aviary leading to the education trail that winds through enclosures housing our educational ambassadors. Classroom, conference and training rooms complete the viewable space in the east wing area.

The Amphitheater will be the scene of many stunning outdoor educational programs, daily eagle feedings, speakers, and various other programs related to native wildlife and their habitat.

The Rehabilitation Wing, houses the hospital, surgical suite, triage, rescue, drop-off, and laboratory services. While not on

public access, this area will provide windows into the process at the surgical suite and the triage room...a view of "wildlife under re-construction." The state-of-the-art facility will also provide the zenith in wildlife care, internships, and residencies. Wildlife biologists, researchers, and other scientists will be provided access to information gained over 35 years of working with native animal populations.



along the rio salado

From the air it will be easy to see that sustainability is a primary concern. Solar panels on the roof will contribute to maximum energy efficiency, water catchment systems and gray water processes will be designed to limit water usage. Electric car charging stations, smart-building systems, LED lighting, low energy electric appliances, indoor items reflecting environmental and green qualities, usage of recycled goods in conjunction with innovative design demonstrate a desire to attain the highest LEED certification possible. Internships in sustainable solutions will be provided on the high school and university level.

How can you get involved? There are naming opportunities (see next page), bricks for purchase, volunteering, and work days.



amphitheater adjacent to education wing

Naming Opportunities



Golden eagle - photo by Kenny Wilkins

The <name> Campus of Liberty Wildlife \$2,000,000

Acquisition of 6.5 Acres of Land 1,900,000

External and Outdoor Signage:

Plaza / Garden Outdoor Area (Steele Foundation) 600,000

Amphitheater 250,000

Educational Eagle Feeding Station 150,000

Living Wall with Plants and Succulents 150,000

Wetland Pond 150,000

Interior Courtyard 100,000

Entrance Pavilion and Trellis 100,000

Garden and Water Features 50,000

Interpretive Trail in the Courtyard 50,000

Bridge and Wetland Overlook 40,000

Aviary 30,000

Pollinator Garden 25,000

Rescue Check-In 10,000

Education Services:

Education Building with external signage 500,000

Children's Education Classroom (GRIC) 300,000

Educational Interpretive Area 150,000

Flighted Bird Training Center 150,000

Eagle Pavilion (Education) 100,000

Falcon Pavilion (Education) (Teets Family) 50,000

Hawk Pavilion (Education) (Hawgood Family) 50,000

Owl Pavilion (Education) (Mulford Family) 50,000

Children's Interactive Center (Cole Family) 50,000

Interpretive Trail – Education Ctr (Mueller Family) 25,000

Observation Station – Rehab (Lang Family) 25,000

Observation Station – Surgery 25,000

Rehabilitation Services:

Rehabilitation Center 600,000

Flight Cage for Eagles/Condors (180 ft) 350,000

Eagle Pavilion 300,000

Mammal Pavilion (Moller Trust) 150,000

Owl Pavilion 75,000

Hawk Pavilion 75,000

Flight Cage for Hawks/Owls 75,000

Flight Enclosure for Water Birds 50,000

Eagle Foster Care Pavilion (Cole Family) 50,000

Owl Foster Care Pavilion (Mulford Family) 25,000

Hawk Foster Care Pavilion 25,000

Corvids Foster Care Pavilion 25,000

Flight Cage for Songbirds 25,000

Medical Services:

Wildlife Hospital 350,000

Wildlife Surgery Center 150,000

Wildlife Intensive Care Center 100,000

Triage and Treatment Center (Seabury Foundation) 100,000

X-Ray and Lab Facility 75,000

Mammal Orphan Care Center 50,000

Avian Orphan Care Center 50,000

Medical Training and Consultation Room 25,000

Sustainability (as a package):

Wetland Pond 150,000

Rainwater Harvesting 125,000

LEED Documentation 50,000

Gray Water System 50,000

LED Lighting 25,000

Administration and Support Services:

Administration Building 250,000

Natural History Library and Resource Center 150,000

Volunteer Center 150,000

Conference Room/Board Room 100,000

Research and Conservation Center 100,000

Multi-Purpose Training Room 50,000

Miscellaneous Opportunities:

Education Van(s) 55,000

Electric Carts 5,000 – 10,000 each

Benches – multiple (*John Robertson*) 5,000 each

Small Benches – multiple (*Parrott Family*) 1,500 each

Tiles and Bricks 250-500 each

Naming Opportunities are negotiable and based on the discretion of the donor.

Naming opportunities in color have been gifted

Diversity is Our Game, Success is Our Name



by Megan Mosby

In a year when you work with over 4000 animals, there are many, many successful and interesting stories. It wasn't easy to highlight just a few, but a smattering of what we do is represented here.

The Two Condors

We rehabilitated two condors this year that were particularly interesting with a hopeful future. The 6-year-old female arrived with serious lead issues. She was sadly down and in need of chelation to remove the lead from her system...an all too familiar scenario. While she was healing, we

received a second 6-year-old condor with the same lead poisoning but at an even higher level. They were housed together, fed together, treated together. It seemed that they would each have a greater will to survive in the company of a friend. Amazingly, while he was physically sicker, the male chelated quicker, and after he was with us for only about four weeks, he was ready to go back to the Grand Canyon at the same time as the female. They were returned to the canyon together, housed in a flight pen together and released back into the wild together. It is hoped that during their stint at Liberty Wildlife they bonded and will be producing offspring in the future. It would make the lead issue a little less painful if a lifelong bond was the result and babies dotted the sky over the years.

The Raccoon

A female raccoon was rescued by our Rescue and Transport team from behind a shopping center. It appeared that her bad habit of feeding on garbage had put her in harm's way. She was hit by a car and suffered a concussion. She was treated and further assessed and found to be ready for an outside enclosure. There, in a week's time, she delivered four babies, surprising her caretakers who discovered the unsuspected kits. Over time we watched the babies grow under the expert tutelage of momma raccoon. It was clear to us that she needed to change her habits, so she was fed nothing but food natural to her species. And, better yet, her four babies would never see garbage as a food item. They were given mesquite beans, fish, crayfish...all natural foods for these critters. We

are hoping that after they are released on a private property along the Verde River, they will carry with them only good habits, staying away from situations that get them in trouble.



The Mallards

A call came in to the hotline about a duck at a city park lake with a badly broken leg. A rescuer was dispatched to bring the duck in. She arrived at the lake and snagged the poor crippled duck. As she was leaving with the duck in her carrier, she was followed by the “pal” duck who relentlessly quacked as if it were scolding her. The rescuer wasn’t quite sure how to handle the situation, but one thing was for sure...the quacking duck wasn’t to be dissuaded.

Using her heart as her guide, the rescuer nabbed the quacker, putting him in the transport box instead, and drove to Liberty Wildlife with the quieter one in her lap. What’s a person to do with that kind of incessant badgering from a duck?

They were housed together in a cage. When the injured duck was worked on, changing bandages, etc., the quacking duck was let out of the cage. He walked around the examination table quacking as if to approve of what was being done to his pal...relentless quacking all of the time.

Happily, they were released together ending the stress of the uninjured mallard, who was determined to see that his pal was taken care of and that they weren’t separated. It was quite heartening and pretty adorable.



Igor

Igor, the great horned owl, came to Liberty Wildlife about three decades ago. He had been stolen from the nest; his nest mate died; he was fed improperly; he was permanently damaged with folding fractures and was incorrectly imprinted. He became an educator and traveled around the state for 17 years educating the public.

Then he demanded a job change, and became a foster parent beyond compare. He has been busy. His first mate was Hogan. After a while they decided to get divorced...just didn’t see things the same way anymore. Hogan was happily re-mated until her recent death. Igor’s next mate was Ophelia, with whom he worked raising babies until she died of old age...Igor soldiered on and took on Sedona as a help-mate until her death of old age. Now Igor, not missing a beat or an orphan season, is working with Elvira. If his mate lays eggs, they get the hatchlings to raise. This year the eggs came too late, so he and his bride were better suited to raise the “tweens.” Oh my, over the years, Igor, the studly owl, has been a foster father to literally hundreds of baby great horned owls...too bad it wasn’t his genes passed on, but there is a lot to be said for nurturing! What a great foster father he has been.



The Night Snake

How sad is it to see a lovely little snake (or any other animal for that matter) struggling only to get more stuck to the deadly sticky trap? We received the pretty little night snake, who was hopelessly made one with the sticky surface meant for another species completely. Skillfully applied mineral oil was used to release the helpless snake, who was then bathed in a solution of Dawn dish soap to release the stickiness from its body. After some time in a climate controlled aquarium, he was released in a safe place, hopefully to never see the likes of the sticky prison he unfortunately slithered on only to be trapped. Sticky traps are pretty horrible things in general. They do the job of trapping, but it is unspecific. We have received hummingbirds, lizards, snakes and even mice who will try to chew off a leg to free themselves...it is that or starving to death or dying of stress. There are way better ways to do the job.



photos for this article by Terry Stevens

Liberty Wildlife's International Volunteers:

Letters from across the globe

by Carol Suits
Volunteer Coordinator



Alexander Beil: "My name is Alexander Beil, I am 25 years old and I live in Wiesbaden, Germany. My Hobbies are Jogging, Ju-Jutsu, Swimming and Hiking. My work experiences cover over my dual studies in mechanical engineering at Federal-Mogul Wiesbaden and the subsequent six-month employment as an engineer. With my volunteer work in the United States I want to help preserve wildlife for posterity. When I have children, they should have the same opportunities to see nature in all its variety as I do."



Annabell Roberti: "I'm a 19-year-old girl from Hadamar, a small town in Hesse, Germany. There I live in a house together with my family, consisting of my parents, my 17-year-old brother and our dog. In June I graduated by receiving my university entrance diploma. This is why I'm intending to study medicine next year. I spend much time

reading during my freetime, but I also like doing sports. I also love to travel, but yet, my family and I have not been able to visit countries which are further away- although we would have liked to- because we always take our dog with us and do not want him to stay with a stranger. So we have been going to the North Sea most of the time, or to the Alps. I would really love to travel to other countries and to learn about other cultures. I'm really looking forward to my trip to the USA."



Kathrin Behnen: "My name is Kathrin Behnen, I am 18 years old and I live in Zorneding, a village near by Munich in southern Germany. I have a sister, she's 20 years old and she studies in Munich. I have never been in America before, but I am sure, it's a fascinating country. I think the nature, but also the cities and people living there are different to those in Germany but I think they're really interesting. The chance to live and work with Americans is perfect to get to know the country from different views."



Kimberly Johnson: (19 yrs) "I've been back home in Denmark for about 8 months now, after almost 11 months in Australia, working on 2 different cattle farms. I would like to gain some more experience with both different kinds of animals and people in a new environment and country, and I would love if my next adventure could happen in Arizona. In the future I see myself as a zookeeper, maybe in a zoo, but also places where they help animals. Arizona has a lot of awesome wildlife, and I would love to come and work there. It would hopefully help my in the future with my dream of working with animals."



Lucas Muller: (18 yrs, Germany) "My whole life I have always been interested in animals. When I attended kindergarten my grandmother gave me a

book about animals as a present. I was fascinated by all of them and after a short time I could name every animal in the book. Some years later I knew all the native birds of Germany by their names and I was able to tell which bird was singing. Up to now my interest in animals has not decreased. I had been a very happy owner of five guinea-pigs until they died within the last three years. It was great fun for me to feed them and to play with them."



Yannik Gaß: (18 yrs, Germany) "I always wanted to go to America for a period of time. This is my big dream. The history and the role of America in world politics is very fascinating to me, so this project is a great chance to see a part of this country. I am really fond of the possibility to work with and for animals - as I am thinking of becoming a vet. So the Arizona Wildlife Project is the perfect mix of what I am looking for, before going to university. In my young ages I was working at a farm for some weeks so I know how hard it could be to care about animals. I also took care of a fishing-farm, when the owner was in holiday. And we always had pets at home. So you see I love to care about animals and that's a big plus for my motivation and enthusiasm."



Nathalie Andersen: "Hello, my name is Nathalie, and I am 19 years old. I live in Denmark with my brother, 16, and my mother, 40. I'm an educated zookeeper assistant, and planning to finish the studies to zookeeper with a specialty in zoo animals. And have some experience from different places, where I have been working with a lots of different animals, big and small. I'm a very curious, outgoing and happy girl. I love to try new things and I am not afraid to get dirty. I'm an independent, flexible and responsible young woman, who wants to see other cultures and what is outside of Denmark."



Verena Bishcoff: "I am 25 years old and live in a house in Wiesbaden, Germany, together with my parents and my 21-year-old sister. I want to apply for a project place in the Arizona Wildlife

Project. Currently I am studying at the Johannes Gutenberg University in Mainz in the master's degree program 'Biology,' which I will probably conclude in the summer 2014. I had applied to the University of Mississippi for the upcoming spring semester 2014 and although I was accepted, I decided to take a different path. After a long time of studying, my desire is to be active. I want to do something practical and do something good. I want to make a difference."



Maike Mosaner: "I am 19 years old and I live in Kassel, a town in the middle of Germany. I live there with my parents and my brother in a beautiful house with a large garden, where we have eighteen chickens, which I take care of. This summer I finished school with my A-levels. My advanced courses in school were English and Chemistry. I hope to discover a new country, new people, new impressions and to improve my English skills a bit more of the world."

*"Study nature, love nature, stay close
to nature. It will never fail you."*



Frank Lloyd Wright



This Page - clockwise from above
 Golden eagle - *photo by Kenny Wilkins*
 Barn owl
 Cooper's hawk
 Curved-billed thrasher
photos by Christy van Cleve
 Sandhill crane in flight
photo by Terry Stevens

Bald eagle at Page Springs
 Young bald eagle at Bosque del Apache
 Bald eagle ready for flight at Page Springs
photos by Christy van Cleve
 Sandhill cranes
 Snow geese landing
photos by Mike Ince
 Yellow grosbeak
 Green-tailed towhee
photos by Christy van Cleve

Opposite page - clockwise from top
 Great blue heron - *photo by Mike Ince*







Hi Kids!

This little guy will soon grow up to be a wise old owl. He's ready to discover new apps, watch some videos and play games. How about you? There's something for everyone whether you're 3 years old or 13, somewhere in between, or older. Take a look!

<http://www.worldwildlife.org/pages/the-world-s-most-amazing-animals-in-one-app>

App ages 8 + World Wildlife Fund app for iPad, Android, Kindle Ages 8 and above Click on the preview to be amazed at what this app has to offer. Winner of a 2013 Apple Design Award.

<http://bestappsforkids.com/2014/05/sailing-home-learn-animal-habitats/>

App ages 3 – 6 Help the captain return a variety of animals to their natural habitats in this interactive educational app. Great for young animal lovers!

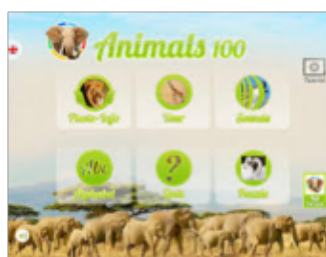
<https://www.commonsensemedia.org/game-reviews/enercities>

PC, Mac ages 13 + City building game focuses on green communities. The issues addressed include economy, population size, environmental sustainability, quality of life, energy/power consumption, and resource management.



<https://www.commonsensemedia.org/app-reviews/ansel-and-clair-little-green-island>

App for iPad, Android, Kindle Fire ages 7 – 12 *Ansel and Clair: Little Green Island* is an ecological simulation game with 18 levels and that each level presents an environmental issue and then lets kids figure out how to solve it. Families can create up to four accounts so siblings each can have a game Play, create, fix problems, complete missions and earn rewards in this environment and pollution game app.

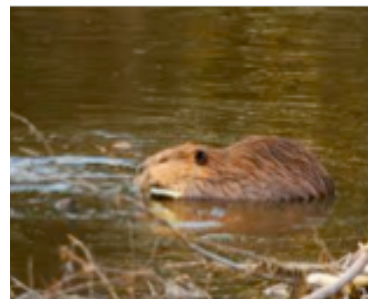


<http://bestappsforkids.com/2014/04/animals-100-real-animals/>

App ages 6 – 8 Discover over 100 animals and their sounds. Kids can scroll through the animals by name, search for a specific animal, or see the animals within their natural habitats, tapping on their pictures for more information.

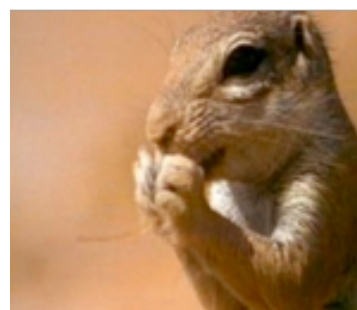
<https://www.commonsensemedia.org/app-reviews/animals-life-sciences-educational-games-for-kids-in-pre-school-and-kindergarten-by-i>

App ages 3 – 6 An engaging and educational life science game that quizzes kids on animal traits and habitats at three levels of difficulty. The premise of the game is for kids to play hide-and-seek with an animal, answering questions about other creatures the hiding animal sees along the way.



<http://ca.pbslearningmedia.org/resource/tdc02.sci.life.colt.beaver/beavers/>

Video ages 5 – 8 The beaver is often referred to as nature's own engineer. This video segment focuses on the beaver's ability to transform its environment to suit itself. The beaver does so with an innate ability to construct dams -- a feat no creature, save humans, is able to achieve.



<http://ca.pbslearningmedia.org/resource/evscps.sci.life.backyard/backyard-wildlife/>

Video ages 3 – 6 Take a field trip in your own backyard. *Backyard Wildlife* introduces children to animals they might find just outside the back door or in a nearby park.

http://www.pbs.org/parents/arthur/activities/acts/animal_habitats.html?cat=creative

Activity ages 3 – 6 Here is a drawing activity to create habitats for backyard wildlife.

<http://bestappsforkids.com/2013/06/itrack-wildlife-lite/>

App ages 7 – 10 This app has information on the size of the tracks, photographs, as well as scientific names to teach users how to track well.



<http://bestappsforkids.com/2014/02/miles-and-miles-of-reptiles/>

App ages 6 – 9 An interactive story book about reptiles intended for children from kindergarten through fourth grade, but kids of all ages will enjoy and benefit from it. Typical Seuss-style text and illustrations are highlighted by animations, sound effects and callouts with definitions, facts, and information about reptiles.



<https://itunes.apple.com/us/app/id483216182?mt=8>

App ages 9-11 Click the Birdie - From the National Wildlife Federation. Use a special digital camera to photograph some truly awesome birds as you travel to wild places throughout the United States. Visit a cypress swamp, an Arizona desert, the Hawaiian Islands, and other fun locales. At each stop, you'll meet three different birds to photograph. If you frame all three just right, your photos will appear in Ranger Rick's bird gallery.



http://teacherswithapps.com/app_reviews-my-bird-world/

App: A collection of four interactive games. Play Match Facts and Infestation Predation to win birds and place them in their habitats. Play Flight Patterns and Memory to earn food to keep the birds fed. My Bird World is a collection of delightful, educational games to teach you about 24 different North American birds. The goal is to fill your world with birds. Once you've earned a bird and placed them in a habitat, you can feed your bird and hear it sing.

<https://www.commonsemmedia.org/book-reviews/green>

Book ages 2 – 5 2013 Caldecott Honor Book Green is a book about color for toddlers and early readers that's wildly imaginative and entertaining. Die-cut pages add an interactive element, as kids get a peek of what type of green awaits them when they turn the page. There's one not-scary tiger hiding in the jungle.

<http://commonsemmedia.org/app-reviews/projectnoah>

App ages 10 and up. Kids learn how to see the environment and begin scientific fieldwork. This powerful tool empowers kids to document what they see right where they are.



<https://itunes.apple.com/us/app/id508806600?ign-mpt=uo%3D8>

App My Birds of Prey Ages 10 +Featuring stunning high-res images, amazing bird songs and calls from The Cornell Lab of Ornithology. Co-produced with Cornell Lab of Ornithology, this stunning collection of four different games has multiple levels of difficulty.



<https://itunes.apple.com/us/book/mysteries-of-the-grand-canyon/id621046134?ign-mpt=uo%3D8>

eBook ages 7 – 10 The author of the first interactive Grand Canyon ebook for children takes her readers on an exciting journey as a lively little dog befriends a California condor and an Abert's squirrel, and together they explore the canyon.

"Every child is born a naturalist. His eyes are, by nature, open to the glories of the stars, the beauty of the flowers, and the mystery of life."

Ritu Ghatourey



Imprinting...continued from page 3



Preventing improper imprinting



Foster mom feeding adopted nestling

can no longer survive in the wild. The education program gives them a purpose, and a role in bringing conservation issues into the public consciousness. Make no mistake, however; they are wild animals. They have acclimated to human care and handling, and through a patient process have learned to accept, and even trust, their human partners. Ultimately, though, an acclimated bird remains acclimated only as long as the contact is continuous. The moment it slackens, a raptor that hitherto seemed tame will quickly revert to a more distrusting, “wild” state. Distrust sounds like a harsh word, but wildlife’s innate cautiousness around man, and man’s creations, is one of its best defensive mechanisms in an increasingly urbanized world.

A bird that imprints upon *people* instead of its own kind, however, has no such defenses. Imprinting in captivity is a *much* bigger concern when it comes to raptors than to small birds; a raptor that essentially thinks it’s human could end up severely hurting someone, or itself, because it will have no fear of a creature that it thinks is the same as itself. One of the paramount goals of raptor rehabilitation is to prevent human imprinting, because such an imprinted bird, depending upon the severity of the attachment, can come to be an un-releasable bird. How do we avoid this? Fortunately, only the very youngest nestlings are at risk of imprinting. Fledgling birds are old enough to have already imprinted upon their parents, and adult birds will have no misconceptions at all about who or what

they are. Wildlife rehabilitation organizations like Liberty typically take a minimalist approach during those first critical weeks, having as little direct contact with nestlings as possible. The ideal solution is to have foster parents of the same species to place the nestling with, but that may not be feasible for every single species; lacking that, camouflage hoods and body coverings, coupled with a species-appropriate facsimile puppet, allow rehabbers to provide the hand-feedings that nestlings require, without exposing them to their true caretakers. Once they are old enough to feed themselves, they can be placed with others of their own kind, hopefully without ever realizing that humans had been there.

It’s an imperfect process, and even the most meticulous efforts aren’t always successful. The hardest cases are those with nestling raptors that require continual medical care, e.g., daily medications, or especially surgery. The more frequent the contact, the more likely the chance of imprinting. The question of how to battle imprinting has been on the mind of conservationists for decades, and remains prominent today. Captive-breeding programs that bolster the populations of endangered species are sometimes confronted with birds that, despite their best efforts, imprint upon them and utterly refuse to mate with their own kind. Instead, they seek out human companionship. Conservationists have rather ingeniously developed a number of workarounds for such birds, including creative headwear for the bird to



Some birds arrive at Liberty Wildlife already imprinted on humans

“mate” with, collecting the necessary biological material for artificial insemination of the proper species.² One approach to combat imprinting is to cross-foster raptor nestlings with nesting adults of a different species. While that does minimize, or even eliminate, human/nestling exposure, there are long-standing concerns in the conservation community that cross-fostering can cause nestlings to imprint upon the wrong species, thus rendering them unable to select proper mates upon release.³

With individual nestlings facing death, or entire species on the brink, the risk of imprinting becomes a necessary evil in order to achieve the greater good. With proper precautions, Liberty Wildlife is able to shepherd the overwhelming majority of nestlings we care for through the process with minimal trouble. Those few who unavoidably *do* imprint on humans become part of our education ambassador program, where they can still live long and purposeful lives, helping to protect their entire species, and in a way, *all* species, in the process.

¹ <http://www.aemv.org/Documents/AAV07smallbookfinal.pdf#page=39>

² <http://www.ncbi.nlm.nih.gov/books/NBK219263/>

³ http://www.raptors-international.org/book/conservation_studies_on_raptors_1985/Bird_Burnham_1985_433-438.pdf

Orphan Care takes a Village

by Susie Vaught

The Orphan Care Area of Liberty Wildlife is the temporary home to hundreds of baby birds every spring and summer. Tiny hummingbirds, fuzzy finches, naked sparrows, mourning doves, Inca doves, rock doves, white-winged doves, grackles, mockingbirds, curve-billed thrashers, phoebes, Gila woodpeckers, Gambel's quail, northern flickers, cactus wrens, verdins, and goldfinches are some of the wide variety of orphans that arrive at Liberty Wildlife.

Many of the people who bring in an orphan ask how many animals we take in every year (over 4200) and where do they all come? The answer is from people like you who care about animals. It is people who are willing to reach out to find out how to help an orphan or injured animal, then drive it to Liberty Wildlife or provide information to a Transport/Rescue volunteer so the animal may be found and brought into Liberty Wildlife.

"It takes a village" is a saying that applies to Liberty Wildlife Orphan Care. Liberty Wildlife's village is comprised of dedicated families of volunteers who will contribute to the months of nurturing the orphans. These volunteers may come from other states and even other countries. This year we had volunteers from Germany, Denmark and Japan dedicated to caring for the littlest ones at Liberty Wildlife!



Hotline screen

- The Hotline volunteer family will help the public with questions on what

to do for the orphan and directions to bring it to Liberty Wildlife.



Red-tail hawk nest rescue

- The Rescue/Transport volunteer family will answer the Hotline person's call to go out on a rescue, bringing a baby owl, hawk, falcon, accipiter, heron or other large animal back to Liberty Wildlife for care.



Orphan care

- The Orphan Care volunteer family will physically feed the thousands of orphans, clean their baskets, bins and cages. They will greet the public when they drop off birds or mammals, enter each animal's information into the computer, document feedings, make hundreds of bowls of baby food, cut up hundreds of oranges, ready thousands and thousands of crickets, mealworms and wax worms to be fed...completing daily a myriad of other tasks required when caring for orphan baby birds.

- The Medical Services volunteer family will assess the babies, documenting their condition upon arrival, setting and wrapping broken wings or legs, cleaning wounds, giving medicine or antibiotics for various wounds or illnesses. They follow up daily with all the birds that need ongoing medical care.

- The Move Team volunteer family will prepare the babies that have been outside to be released. Clean aviaries and cages, readying them for the next complement of babies that have reached this stage in their lives at Liberty Wildlife. Documentation is updated or completed and filed appropriately.

- The Daily Care volunteer family will clean the outdoor aviaries daily, prepare foods and care for the orphans as they strengthen and hone their flying, perching and landing skills.

- The Animal Care Coordinator will provide daily support, input and knowledge regarding the care for each type of animal received at Liberty Wildlife.

- The Daily Care Coordinator will ensure the appropriate foods are ordered and purchased to feed the wide variety of orphans while they are at Liberty Wildlife. This includes mealworms, crickets, wax worms, Exact tube food, large and small bird seed, fruit, cat food, and crumble.

As the Orphan Care Manager, I am grateful and humbled by the number of people who join the Liberty Wildlife village, to provide the 'human touch' necessary to complete the Liberty Wildlife Mission to 'Nurture the Nature of Arizona.'



Baby night hawk



What's What at the Non-Eagle Feather Repository

by Nina Grimaldi

The Non-Eagle Feather Repository has been chugging along with great success since 2010. What started out as a pilot program became a permanent program in 2012. We have received more than 2,500 requests since we began this program and have filled more than 2,000 requests. Each request might represent a bird not taken from the wild. The requests have come from more than 150 different tribes around the United States. So far we have covered nearly all of the states including Alaska.

We have received numerous letters and cards thanking us for the feathers, and we even get to see what becomes of the feathers at times. (*Photos above*)

Due to the popularity of the program, we have had lengthening waiting lists for many of the species people are looking for. This is often due to the non-

availability of birds in Arizona. When this occurs, we rely on other rehabbers and state and federal agencies to send us their feathers and carcasses. Even if the species is found here in Arizona, there can still be a wait. At Liberty Wildlife, our priority is first to mend and to rehabilitate those animals that come through our doors. We always want to be successful and have a happy ending for that animal. Our success here will obviously affect how many birds make it into the Repository.

Every person and every tribe has certain species that are sacred. Here are just a few of the most requested species:

red-tailed hawk
Harris's hawk
osprey
anhinga
magpies



Nina assembling Krestrel tails

rough-legged hawk
red-shouldered hawk
gilded flicker
(yellow and red shafted)
northern harrier
blue jay

"I do not think the measure of a civilization is how tall its buildings of concrete are,
But rather how well its people have learned to relate to their environment and fellow man."

Sun Bear of the Chippewa Tribe

Protection is Not just for Raptors

by Nina Grimaldi

The Research and Conservation Department works closely with APS and SRP to aid with avian issues around their equipment. Most of the calls that send us to the field are due to raptor issues, but every once in a while we get a call about something else. This year we had a number of flickers and two adorable nighthawks from the utility companies.



Five nestling northern flickers call Liberty Wildlife home after losing their nest in the Slide wildfire. Photo by Terry Stevens.

This past year Arizona battled a huge wildfire just north of Sedona. APS services this area and had crews out repairing burned poles. Crews located a nest of northern flickers on one of these poles. Research and Conservation was contacted and we were ready to go retrieve the babies if needed. However, an APS employee carried the young nestlings back to his car and they were driven down to Liberty Wildlife. The flicker nestlings were about a month old and came in smelling of fire but were not harmed from the flames.

We cared for the birds until they were ready for release. Liberty Wildlife



Jennifer Moore, APS Natural Resource Specialist, releases the flickers after a stay at Liberty Wildlife. Photo by Les Stukenberg from the Daily Courier.

arranged for APS to take those birds back up north and release them. Stories of this rescue were posted on Facebook and in the Daily Courier, a local newspaper out of Prescott. What a wonderful success story for these flickers!

Recently we received a call from SRP about a lesser nighthawk that was sitting on eggs and was in harm's way. When these situations occur, we make attempts to keep the family together. We often attempt to relocate the nest to a safer location, or just keep a watchful eye on the construction and the nest to make sure the birds are safe. In this situation, a watchful eye was all that was needed. However, mom decided to fly off and not go back to her eggs. Time was given to her as she came and went, but she never returned to her eggs.

As time ticked by, it was beginning to be a concern for the eggs, and the

decision was made to take the eggs and incubate them at Liberty Wildlife.

Much to our surprise, only an hour after placing them in the incubator, one of the eggs hatched. The tiniest of babies sat waiting for us to feed him. The next day the other egg hatched. We will release these two back to the wild when they are fledgling age. For now we will watch them grow and change into their adult counterpart.



Hatchling lesser nighthawks above and top right. Photos by Terry Stevens.

No matter the size, APS and SRP are looking out for our avian friends.

annual event news

Wishes for Wildlife 2014



On April 11th at the lovely Omni Montelucia, Liberty Wildlife hit a home run. Our annual auction and dinner flew to new heights.

Guests arrived and were greeted by our education ambassadors and their handlers, who were all decked out in black and white...stunning!

The auction was beautifully laid out and electronic bidding allowed guests to track their desired items and mingle with their friends at the same time. They could also get a preview of our new facility, talking to the architect and campaign consultant... clever!

The service was spotless, drinks and hors d'oeuvres were delicious, the energy was vibrant...perfection! Then there was the dinner. Beautiful centerpieces of locally grown succulents decorated the tables. The dinner gets better every year...muy savorosa!

The video of the silent auction bidding and cocktail party allowed guests to see themselves on the big screen. A breathtaking video of wildlife in the wild doing its very

important thing set to a perfect musical background drew undivided attention of the crowd...bravo!

The presentation of the Legacy Award to Dr. Kathy Orr... moving!

Then Wild Things happened. Emceed by The Phoenix Theatre's Michael Barnard, we introduced our game show using a contestant from each of the four groups in the dining room - Condors, Falcons, Owls and Eagles. Questions were asked related to wildlife and each contestant was given a chance to answer. Eliminations happened and the second round questions were focused on Liberty Wildlife. The composure of the contestants was impressive; the life-line participation by the team members was exciting; and finally the Eagle Team took the award...bravo!

The prize will be a release party for the team at our new site in early November...Fun!

The finale was the release of a rehabilitated great horned owl into the moonlit evening with a champagne toast to its well-being...Hooray!

Mark your calendar for next year's event on May 2nd, same time, same place. See the accompanying Benefit Fact Sheet...don't miss it.

*Honorary Corporate Chairs,
Victoria (not pictured) and Rod Granberry*

2015 event information

What: Liberty Wildlife's 22nd Annual *Wishes for Wildlife*

Who: Susie Alofs & Bobi Seredich
Patti & Ken Vegors
Julie Wrigley
Kathleen Lang
Megan Mosby
Liberty Wildlife's Guardians

Benefit Chairmen
Honorary Corporate Chairmen
Legacy Award Honoree
Executive Advisor
Executive Director
Planning Committee

When: Saturday, May 2, 2015
6:00 p.m. Cocktails, Entertainment, Silent Auction,
and Raffle
8:00 p.m. Dinner, Entertainment, Presentations,
and Raffle Drawing

Where: Montelucia Resort & Spa
4949 E. Lincoln Drive
Paradise Valley, AZ 85253

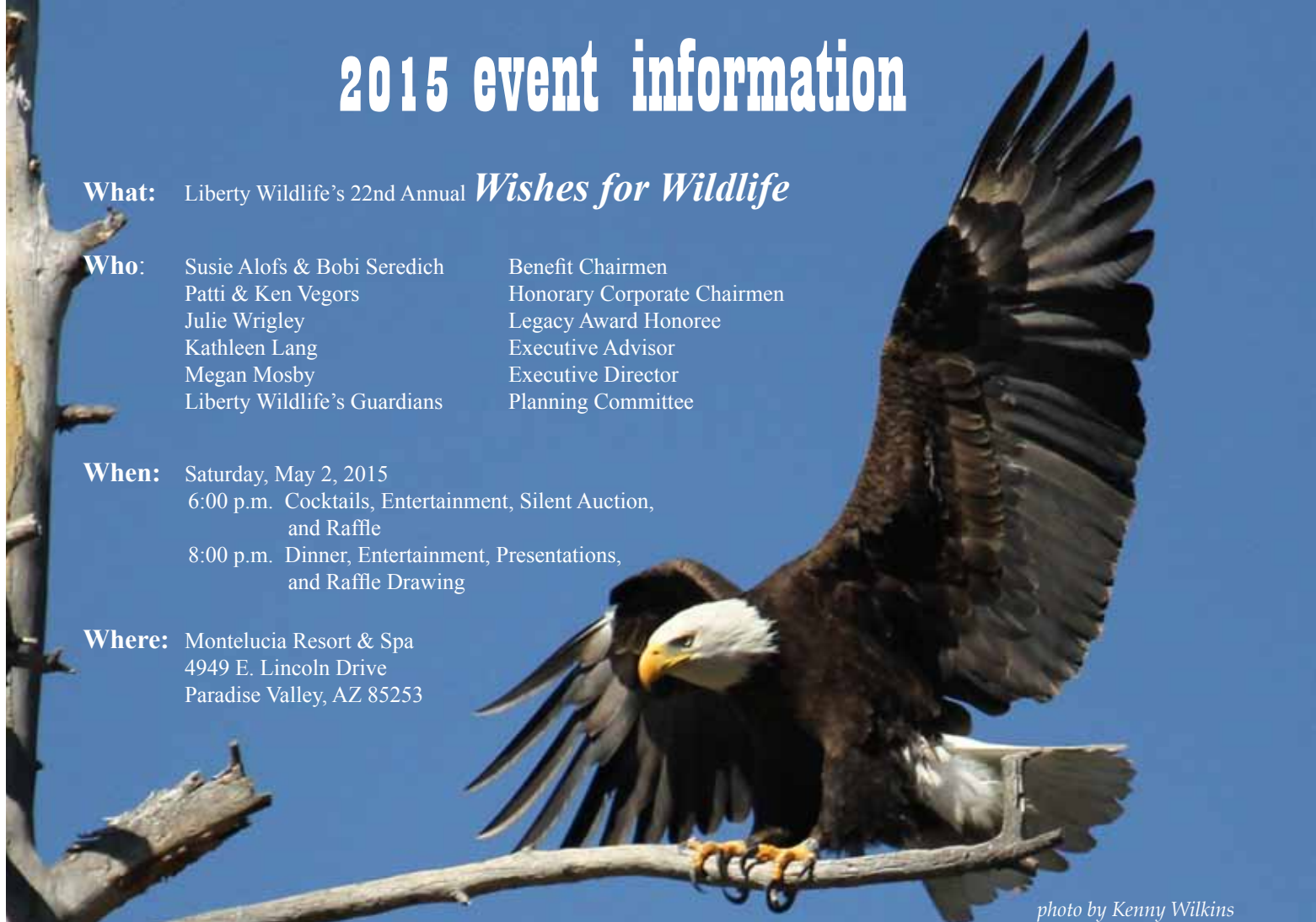


photo by Kenny Wilkins

Why: Liberty Wildlife's mission is to "nurture the nature" of Arizona by answering the community's need for quality wildlife rehabilitation, environmental education, and conservation services. Founded as a 501(C)3 in 1981, Liberty Wildlife has nurtured nearly 80,000 birds, mammals and reptiles. And last year alone, presented 827 educational programs statewide to citizens of all ages. Together we can help thousands more as they struggle with urban encroachment into their native habitat and rapidly changing environment, as well as educate and inspire future stewards of our state. Please join us in preserving our unique wildlife heritage for many generations to come!

Levels of Support:

Title Sponsor – \$50,000 (2 tables of 10)

Assists Liberty Wildlife in providing for, and expanding, all of its programs to nurture the nature of Arizona.

Rehabilitation & Education Sponsor – \$25,000 (2 tables of 10)

Can provide funding for major purchases, including rescue equipment and transport assistance for education ambassadors and injured wildlife.

Research & Conservation Sponsor – \$15,000 (table of 10)

Can provide funding for major purchases, such as laboratory and field equipment.

Eagle Sponsor -- \$10,000 (table of 10)

Can provide funding for major purchases, such as medical, rescue, and educational equipment.

Hawk Sponsor – \$5,000 (table of 10)

Can provide funding for medical supplies and services, and sponsor educational programs.

Owl Sponsor – \$3,500 (table of 10)

Can provide support for educational needs, such as housing and food for educational ambassadors.

Wings of Love Circle – \$500 per person (unless otherwise requested, will be seated at Wings of Love table). Can provide equipment, supplies, and care for orphaned wildlife babies, as well as provide an education program for underserved children.

Individual Guests – \$300 per person

Provides support for general operating expenses

Please visit our website at www.WishesforWildlife.org, where you may purchase tickets to the event, as well as donate an item for the auction. For more information about Liberty Wildlife, please visit our website at www.LibertyWildlife.org, or contact Peggy Cole at zookpr54@aol.com or phone 480-998-5284.

Liberty Wildlife 2014 Legacy Award

There weren't many dry eyes in the house when Liberty's founder, Dr. Kathy Orr was presented with the third annual Legacy Award. Being a veterinarian in the Valley for many years has led to a vast experience dealing with not only beloved pets but with a wide variety of exotic animals from her experience at the zoo.

It was, however, her devotion to the care of native wildlife that garnered the Liberty Wildlife Legacy Award. Before the incorporation of Liberty Wildlife, she was one of the only veterinarians in the Valley experienced and willing to help wildlife in need. This passion led to the incorporation of Liberty Wildlife in 1981 and has kept her active in the care of native animals for all of these years in between raising a family, caring for domestic and exotic pets, to rhinos, orangutans, giraffes and the like at the Phoenix Zoo. Such great experience led her to becoming a local and national expert in dealing with large raptors like bald and golden eagles and the very endangered California condor.

But don't let the high-profile animals take away from her devotion to anything with a heartbeat. The tiny hummingbird, the lumbering tortoise, or the misunderstood snake get all her attention and her expertise.

The kicker is that in accepting her award, she gave credit to everyone else. It was clear to the room who was the deserving one.

Congratulations, Kathy...such a well-deserved recognition.



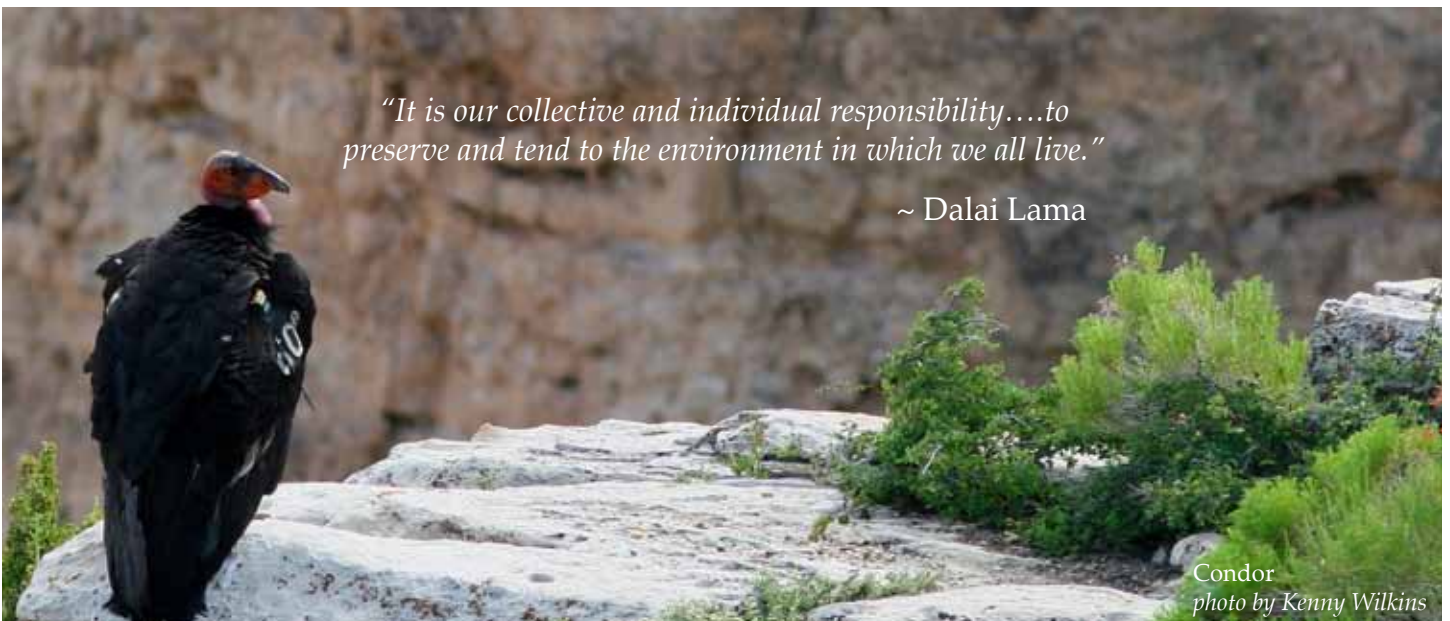
Dr. Kathy Orr

A video of the recognition can be found at <http://youtu.be/RdFErF0B5d8>



*"It is our collective and individual responsibility....to
preserve and tend to the environment in which we all live."*

~ Dalai Lama



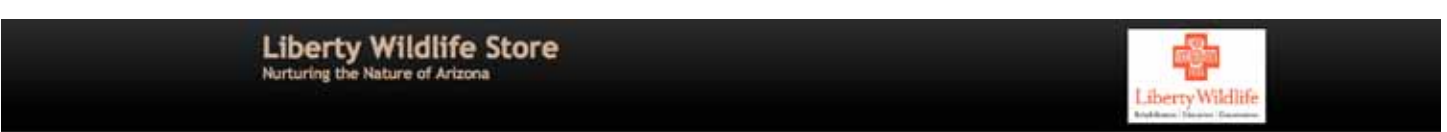
Condor
photo by Kenny Wilkins

Social Media Links

Keep up with us year round!

- Friend us on Facebook: www.facebook.com/libertywildlife
- Follow us on Twitter: www.twitter.com/libertywildlife
- Get the latest news from our weekly blog: www.libertywildlife.org/publications/blog
- Subscribe to our monthly publication *Nature News*: www.libertywildlife.org/publications/nature-news
- Check out the public calendar for upcoming events: www.libertywildlife.org/public-calendar
- Enjoy our yearly magazine, *WingBeats*: www.libertywildlife.org/publications/wing-beats

Summer tanager - photo by Kenny Wilkins



First of a new series of kids' books
*"I Got Barfed on
by a Turkey Vulture"*
Written by Balinda,
Illustrated by Kids!



Several new digitally
printed T-shirt
designs - choose your
size and color!



Beautiful Note cards -
5 to a box.
(Coyote pup and 14
other Native Species
available!)



Personalized Laser Etched
Commemorative
Walkway Brick to be
displayed at our new
facility on the Rio Salado!



Laser engraved
Liberty Wildlife
Keychain flashlight!

All these items, plus all other Liberty logo wear and related products are available at our on-line store.
Visit us at:

www.libertywildlife.net



efaz

environmental fund for arizona

Workplace Giving for Liberty Wildlife through Environmental Fund for Arizona

There is a viable way to give green in Arizona. The Environmental Fund for Arizona is an alliance of 28 conservation organizations representing initiatives like wildlife rehabilitation, habitat preservation, land management, river restoration, renewable energy, native plants, recycling, sustainability, and others.

Twenty-five workplace giving campaigns occur mostly in the fall enabling employees an easy opportunity to donate to causes that they are passionate about. EFAZ is the only environmental and conservation federation in the state to offer the ability to give beyond health and human services organizations.

If your place of work is interested in offering a variety of giving choices, contact Kim Parrott, EFAZ Executive Director (602-541-3781), to start the process. EFAZ will assist you in adding a green gift to your already existing list of payroll deductions. If you choose to have a giving campaign, EFAZ can make it both fun and interesting by providing opportunities to speak to representatives of member organizations, setting up on-site tours, or in-house programs.

Check out the web site for the many opportunities to help conservation in the state of Arizona. **If you don't care, who will?** Be green at work...and if your passion points you to Liberty Wildlife, well, that is all the better.



Welcome to Liberty Wildlife!

by Carol Suits

These words mark the beginning of the journey every person takes to become a volunteer at Liberty Wildlife. It starts at a Saturday morning gathering of a group of diverse people, curious to know more about the organization and its volunteers whose mission is nurturing nature of Arizona wildlife; wondering if this is a match for their interests, skills and passions; hoping they can contribute something meaningful and in return learn about the more than 4,000 animals that are brought to Liberty each year and how to care for them.



Carol leading a new volunteer orientation

The first few moments impress the newcomers with information about the 34 years Liberty Wildlife has been in existence, the present and future plans for the organization and the 300-plus volunteers that are an integral part of its success. Soon, an education volunteer comes into view with a non-releasable bald or golden eagle perched on their arm, causing a universal intake of breath, widening of eyes and smiles everywhere. They learn that the Education Team provides over 800 programs at events and in schools each year. Some natural history of the species and specific information on the bird in front of them follows, allowing everyone time to snap a picture and ask a question.



Max with bald eagle, Sonora, at an orientation

Exit the eagle and enter an Orphan Care volunteer carrying a small berry basket holding a tiny baby mockingbird; mouth open wide, ready to be fed. Feeding, care and species information is accompanied by the ooh's and aah's of the group. As if on cue, a car pulls up and a woman with her young child comes to the admittance window carrying a small covered shoebox. Earlier, Mom called a hotline volunteer to learn how to provide temporary care for the baby and get directions to the facility. Reassuring words from Mom to child that all will be well enables the transfer of a baby hummingbird from small hands to expert volunteer care.



Helping with new intake at the window

Orientation continues as a Medical Services volunteer and Daily Care volunteer explain the detailed training all volunteers

receive to ensure animals arrive safely, are assessed by a well-trained volunteer Medical Services team with oversight by professional veterinarians, and tended to by the Daily Care teams.



New volunteers touring the facility

It's just about time for everyone to take a tour of the facility. Another car pulls in and a Liberty Wildlife rescue volunteer brings a carrier holding an injured native animal needing help to the medical team assessment area. Volunteers are trained to safely rescue animals deemed unsafe for the public to handle and transport to Liberty Wildlife. As the rescuer passes the group, everyone is invited to view more non-releasable animals, many of whom, like the eagle they recently observed, have become educational ambassadors for Liberty Wildlife.

Orientation is almost over. Questions have been answered, animals viewed and volunteers observed going about their chosen tasks. All that's left is for each participant to raise a hand, make a commitment and join a team that indeed nurtures the nature of Arizona wildlife.

Liberty Wildlife is committed to nurturing the nature of Arizona through wildlife rehabilitation, natural history education and conservation services to the community.

Ways to Give Without Leaving the House...It's as easy as 1, 2, 3!

by Alex Stofko

AmazonSmile

Amazon customers are able to shop online at smile.amazon.com and The Amazon Smile Foundation will donate .5% of the price of eligible purchases to the charitable organization selected.

1. Create an Amazon account (www.amazon.com).
2. Go to smile.amazon.com and login using your Amazon account information. You will be prompted to select a charity; type in 'Liberty Wildlife' and click 'search'; 'select' Liberty Wildlife Rehabilitation Foundation Inc.
3. Start shopping AmazonSmile to benefit Liberty Wildlife!

GoodSearch

Raise money by doing things you already do!

1. Create a GoodSearch account (www.goodsearch.com).
2. When prompted with 'Who do you want to help?' search 'Liberty Wildlife'; Select 'Liberty Wildlife'; You can make GoodSearch your home page and your default search engine.
3. GoodSearch works just like "Google Search" and every time you use it, Liberty Wildlife gets a donation.
4. Start using GoodSearch's many fund-raising options!

Fry's Food Community Rewards Program

If you already have a Fry's VIP Card, please follow the steps below. If you do not have a Fry's VIP Card and would like to enroll, please go to your nearest Fry's Food Store and ask to join their VIP Card program.

1. Create an account at www.FrysCommunityRewards.com.
2. Sign-in to your account; click on 'My Account' then 'Account Settings', click 'edit' under Community Rewards; 'search' 'Liberty Wildlife' and click the 'select' box next to Liberty Wildlife Rehabilitation Foundation and click 'save.'
3. Go to your nearest Fry's Food Store and support Liberty Wildlife while you shop for groceries. A 'Thank you for your contribution to Liberty Wildlife' will be located at the bottom of your shopping receipt.

Amazon WishList

Shop online in our WishList registry and the items will be sent directly to us!

1. Create an Amazon account (www.amazon.com).
2. On the right hand side of your homepage, click on WishList; type in 'Liberty Wildlife' and click 'search'; our WishList will show up on the screen.
3. Shop the many items in our WishList and these items will be sent directly to our facility!

Volunteer Match

Search for local volunteer opportunities.

1. Search 'Liberty Wildlife' on the www.volunteermatch.com site to view opportunities with our organization.
2. Click on the 'Liberty Wildlife' hyperlink, under the job title, to view more about the organization.
3. Click on 'Donate Now' to donate to Liberty Wildlife through Network for Good.

Deep Bench...continued from page 4

The volunteers who handle the birds of prey also follow a rigorous training program, making the Education team a rich source of information on Sonoran desert natural history and particularly the raptors of the Southwest. The classroom demonstrations address curriculum requirements and skills and supply additional learning materials for teachers. Liberty Wildlife programs are extremely popular with students and teachers, and the Education calendar fills up quickly.

That's all pretty impressive, but wait, there's more! If you've ever found an injured wild animal, you know it's a huge relief to pick up the phone and reach someone who can help. The Liberty Wildlife Hotline volunteer team responds to calls seven days a week, bringing peace of mind to people and specialized care to the animals.

Working in tandem with the Hotline, Rescue and Transport volunteers from across the Valley respond to challenging or

dangerous wildlife rescues. Sophisticated mapping software addresses the need for efficiencies in time and mileage to provide the speediest rescues.

The Orphan Care area is controlled mayhem in the spring and summer months as thousands of needy babies are cared for. Each and every animal is doted on by dedicated volunteers. Just managing the dietary requirements of all of the growing and rehabilitating animals is a herculean effort.

The Liberty Wildlife Non-eagle Feather Repository provides raptor feathers to Native American tribes across the United States for ceremonial use. This has allowed ceremonial stores to be replenished and prevents illegal feather harvesting.

Without a lot of fanfare, Liberty Wildlife has become a tremendous resource for many. The non-profit continues to improve, grow and positively impact the people, wildlife and habitats of Arizona and beyond!



Measuring eagle beak to determine gender prior to release

* Special thanks to our veterinarians:

Dr. Kathy Orr
Dr. Tanya Wyman
Dr. Mike Sorum
Dr. Todd Driggers
Dr. Jennifer Urbanz
Dr. Brad Rozonke
Dr. Cliff Favor
Dr. Irv Ingram

Photos in this article by Terry Stevens

HOW DO BIRDIES MEAN BUCKS?

You can make a local charity a big bucks winner by making a pledge in the Birdies For Charity competition at the 2015 Waste Management Phoenix Open! That's because participating charities will receive every single penny of collected pledges.

HOW DO I PLAY BIRDIES FOR CHARITY?

Simply pledge one cent or more for every birdie that will be made by the PGA TOUR players, Thursday through Sunday of the 2015 Waste Management Phoenix Open. It's estimated that between 1,300 and 1,800 birdies will be made. Inclement weather may affect the total.

HOW MUCH WILL I OWE & WHOM DO I PAY?

Say you pledge one cent per birdie and 1,500 birdies are made, after the tournament, you'll receive an invoice for \$15.00 from Thunderbirds Charities. You can either make your check payable to "Thunderbirds Charities" or provide credit card information, (Do not pay charity directly). For other possible pledge amounts check the chart below.

BIRDIES CAN ALSO MEAN BONUS BUCKS

Charities can receive a 15 percent BONUS on the total amount of pledges collected on their behalf during the 2015 Waste Management Phoenix Open Birdies For Charity Program. It's as simple as it sounds. Example: If Charity A collects \$20,000 in pledges, Charity A will receive 10 percent of that, or \$2,000, for their charity courtesy of Thunderbirds Charities.

IF 1500 BIRDIES ARE MADE *my total pledge would be:*

1¢ = \$15 | 2¢ = \$30 | 3¢ = \$45 | 4¢ = \$60 | 5¢ = \$75 | 10¢ = \$150



Birdies Mean Bucks for Charities

2015

11 YEARS STRONG

GUIDELINES

- It is designated charity's responsibility to collect and return pledge forms to The Thunderbirds
- Pledge deadline is February 1, 2015
- If one or more days of the Waste Management Phoenix Open are cancelled, the birdie count substituted for those days will be: Thurs: 500 | Fri: 500 | Sat: 300 | Sun: 300
- Complete set of rules can be requested at info@bfc.com

Going into our 11th year Birdies For Charity has made a difference for local charities:

2005 ~ \$800,000

2006 ~ \$1.1 million

2007 / 2008 ~ \$1.5 million

2009 / 2010 / 2011 ~ \$1.3 million

2012 / 2013 ~ \$1.7 million

2013 / 2014 ~ \$1.5 million

Thunderbirds Charities is recognized by the IRS as an Internal Revenue Code Section 501(c)(3) charitable organization. Consult your tax advisor on the application of tax deductions.



PLEDGE FORM : I PLEDGE AND PROMISE TO DONATE TO THE BIRDIES FOR CHARITY PROGRAM FOR EVERY BIRDIE MADE DURING THE 2015 WASTE MANAGEMENT PHOENIX OPEN.

PER BIRDIE PLEDGE
1¢ MINIMUM

or

ONE TIME DONATION
\$20.00 MINIMUM

make checks payable to **THUNDERBIRDS CHARITIES**

Liberty Wildlife Rehabilitation PO Box 14345 Scottsdale, AZ 85253

263

Charity inviting your pledge

Birdies for Charity Number

please return to:

THIS PLEDGE FORM MUST BE RETURNED TO THE CHARITY INVITING YOUR PLEDGE

For more information or to make a pledge online go to
BIRDIESFORCHARITYAZ.COM

602.216.7328

JANUARY 26, 2015 – FEBRUARY 1, 2015
TPC Scottsdale

<input type="text"/>		
Name		
<input type="text"/>		
Company Name (only if using a company address)		
<input type="text"/>	<input type="text"/>	
Mailing Address		
<input type="text"/>	<input type="text"/>	Suite or Apt.
City	State	Zip
<input type="text"/>		
Telephone (including area code)		
<input type="text"/>		
Email		



Liberty Wildlife Rehabilitation Foundation

P.O. Box 14345

Scottsdale, AZ 85267

Wildlife Hotline (480) 998-5550

Visit us online at www.libertywildlife.org

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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.

Fledgling and Explorer level members will receive the *WingBeats* newsletter electronically. Guardian and above will receive a paper copy of *WingBeats* unless requested otherwise.

Cut along the dotted line and mail
with check to: P.O. Box 14345
Scottsdale, AZ 85267

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

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City _____ State _____ ZIP _____

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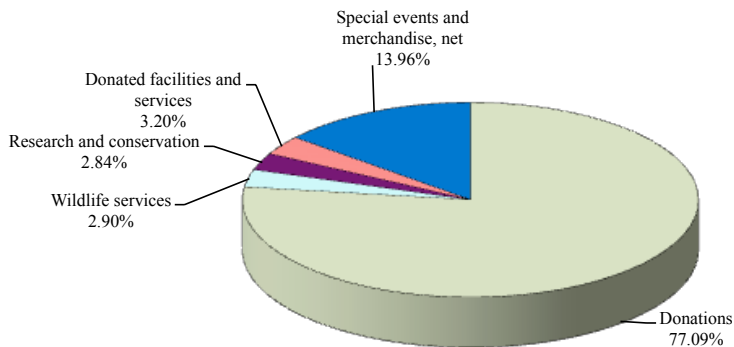
Liberty Wildlife

Annual Report 2013

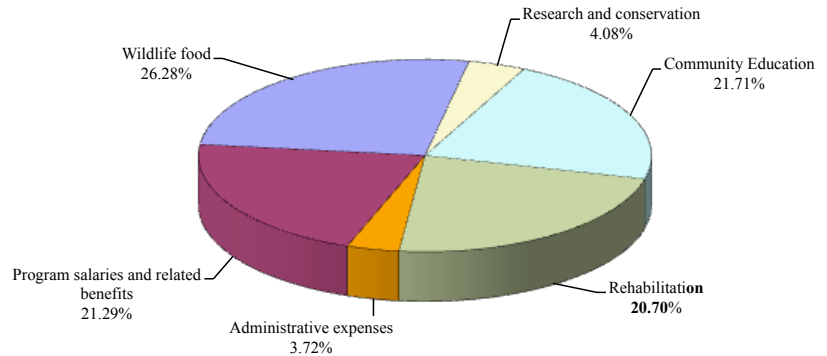


ANNUAL BUDGET

2013 Operating Income



2013 Operating Expense



Liberty Wildlife Operating Income and Expenses For the Year Ending December 31, 2013

Operating Income:

Donations	\$ 855,544
Wildlife services	32,237
Research & Conservation	31,557
Donated facilities and services	35,462
Special events and merchandise (net)	154,930

Total Operating Income: \$1,109,730

Operating Expenses:

Program salaries and related benefits	\$ 84,626
Wildlife food	104,466
Research & Conservation	16,221
Community education	86,305
Rehabilitation	91,127
Administrative expenses	14,768

Total Operating Expenses: \$ 397,513

Operating Income

in Excess of Expenses: \$ 712,217

Liberty Wildlife Goes Grocery Shopping for Animal Food

Crumble	1,550 lbs.
Seeds	1,650 lbs.
Worms	284,250
Crickets	91,000
Mice	128,850
Rats	1,712
Rabbits	261
Quail	2,780
Chickens	900
Carnivore diet	58 lbs.
Trout/caplain	400/1,100 lbs.
Minnows	12,000
Guinea Pigs	450
Fruits and Vegetables	4,120 lbs.
Scratch	850 lbs.
Exact tube feed	75 lbs.
Eggs	6,054

Cover photo:
ferruginous hawk,
Pawnee, Education Ambassador
photo by Kenny Wilkins

Back photos:
left - male gilded woodpecker
middle - burrowing owl
photos by Matt VanWallene

right - common black hawk
photo by Christy van Cleve



DEPARTMENT STATISTICS for 2013

Medical Services, Daily Care and Orphan Care

• Total native animals assisted	3,634
• Total orphaned animals assisted	1,908
• Number of species <i>(see next page)</i>	121
• Highest intake month - June	806
• Total animal care volunteers all shifts:	

Medical Services	59
Daily Care	90
Orphan Care	74

Additional Support

• Number of Hotline calls <i>(see next page)</i>	18,213
• Hotline volunteers	32
• Rescue & Transportation volunteers	118
• Hours logged by R&T volunteers	4,331
• Research & Conservation biologists	5
• Cooperating veterinarians	8
• Wildlife Guardians	23
• Scientific Advisory Board	4
• Non-Eagle Feather Repository Board	5
• Publications volunteers	8
• Board of Directors	14
• Advisory Board of Directors	18

Education

- 827 programs
- 516 community venues, including schools, scout groups, etc.
- 247,414 total audience
- 1049.20 program hours provided
- 1,909 hours is the volunteer's program time and travel time to and from program from Liberty Wildlife
- 24,346 miles driven from Liberty Wildlife to programs and back
- 25,743 miles driven by volunteers to and from Liberty Wildlife for programs
- 50,089 total program mileage for volunteers from their homes to programs and back home
- 53 total number of volunteers completing programs
- 21 hand feed volunteers

Total volunteer jobs 532

Number of volunteer hours 58,187

*(Conservatively, the value of volunteer time equals the number of hours x \$22.14 per hour) \$1,288,260.18**

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

Liberty Wildlife Board of Directors

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Peggy Cole
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Barn owl, Henry, Education Ambassador

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Liberty Wildlife Hotline Call Volume Study

Month	Days Per Month	Total Hours	Average Calls Per Hour	Estimated Total Calls	Actual Calls Per Hour	Actual Total Calls
January	31	403	2.5	1006	3	1209
February	28	364	2.5	910	3	1092
March	31	403	2.5	1006	3	1209
April	30	390	4	1560	4	1560
May	31	403	5	2015	5	2015
June	30	390	5	1950	5	1950
July	31	403	5	2015	5	2015
August	31	403	5	2015	5	2015
September	30	390	4	1560	4	1560
October	31	403	2.5	1006	3	1209
November	30	390	2.5	975	3	1170
December	31	403	2.5	1006	3	1209
Totals		4745		17024		18213



2013 List of Species Assisted

Abert's towhee	Cooper's hawk	house finch	ruby-crowned kinglet
American coot	Cordilleran flycatcher	Inca dove	ruddy duck
American kestrel	Costa's hummingbird	javelina	rufous hummingbird
American wigeon	cottontail rabbit	killdeer	Say's phoebe
Anna's hummingbird	*coyote	ladder-backed woodpecker	sharp-shinned hawk
antelope ground squirrel	curve-billed thrasher	lesser goldfinch	silver-haired bat
antelope jackrabbit	dark-eyed junco	lesser nighthawk	snow goose
ash-throated flycatcher	desert pocket gopher	Lincoln's sparrow	snowy egret
bald eagle	desert spiny lizard	little brown bat	Sonora desert toad
barn owl	desert tortoise	long-eared owl	Sonora mud turtle
belted kingfisher	double-crested cormorant	MacGillivray's warbler	*striped skunk
black-crowned night heron	fence lizard	mallard	Swainson's hawk
black-headed grosbeak	field mouse	merlin	tree swallow
black-throated sparrow	flamulated owl	Mexican freetail bat	turkey vulture
box turtle	Gambel's quail	Mojave rattlesnake	verdin
Brewer's sparrow	Gila woodpecker	mourning dove	western blind snake
bronzed cowbird	gilded flicker	neotropic cormorant	western grebe
brown pelican	golden eagle	northern harrier	western kingbird
brown-headed cowbird	gopher snake	northern mockingbird	western pipistrelle
Bullock's oriole	gray fox	northern rough-winged swallow	western screech owl
burrowing owl	great blue heron	orange-crowned warbler	western tanager
cactus wren	great egret	*osprey	whiptail lizard
California condor	great horned owl	peregrine falcon	white-crowned sparrow
Canada goose	greater roadrunner	pie-billed grebe	white-winged dove
cattle egret	great-tailed grackle	prairie falcon	Wilson's warbler
chimney swift	green heron	red-tailed hawk	wood duck
cliff swallow	ground snake	ring-necked duck	yellow-rumped warbler
common moorhen	ground squirrel	ring-necked pheasant	yellow warbler
common poorwill	Harris' hawk	*rock squirrel	
common raven	hermit thrush	rock wren	
common yellowthroat	hooded oriole	round-tailed ground squirrel	

**pictured above*



Baby quail
Photo by Matt VanWallene



Adult quail
Photo by Judi Stivers

SPECIAL THANKS TO OUR 2013 DONORS

Abele, Steven
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 Brierley, Eleanor
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 Bromfield, Yukari
 Brooks, Misty
 Brooks, Patrick
 Brose, Koni & Jack
 Brosie, Johanna
 Brossart, Diane
 Brotherton, Natalie
 Brovitz, Ella

Brown, Brittany
Brown, Jesse
Brown, Loa
Brown, Lynn & Larry
Brown, Sharon
Brugler, Alan
Brunner, Maria
Bryan, Carol Lee
Bubbilo, Breanna
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Buczek, Nancy
Bull, Ann
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Burke, Robyn
Burns, Caroline
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*First-year Harris' hawk
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 Spengel, Ann
 Speros, Danny
 Spinelle, Samantha
 Spradling, Jacki
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 Stahl, Sandra
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 Starr, Al
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 Steele, Jodie
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 Stein, Linda
 Steinbeck, Kim

Stermer, Jack
 Steven Paul Salon
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 Stivers, Judi
 Stofflet, Tracy
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 Stone, Ron
 Stone, Carolyn
 Stone, Linda A.
 Stone, Paula
 Stonefield HOA
 Straube, Janet
 Street, Cyndi
 Strimple, Joy Bingham
 Strom, Ruth-Ann
 Strosnider, Balinda
 Strub, Kasha
 Stubert, Ann
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 Sullivan, Brian
 Sullivan, Michael & Barbara
 Summerfield, Susan
 Summit School of Ahwatukee
 Sun Cities/Youngtown Special
 Activities
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 Sundem, Ashley
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 Sutton, Christine
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 Sweeney, Victoria
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Screech owl
 photo by Judi Stivers

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*We apologize if we
have inadvertently
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your name.
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Wolf - photo by Terry Stevens



Snow geese - photo by Mike Ince



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