

Nation's Only Natural-Habitat Refuge Where Sick, Old and Needy Elephants Can Once More Walk the Earth in Peace and Dignity

Expansion Update

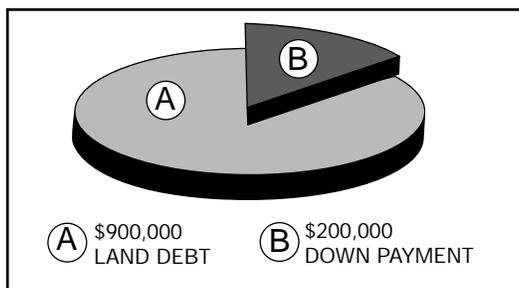
Your response to The Stars mailing has been wonderful, proof that the simple truth is undoubtedly the most powerful. Thanks to all of our devoted supporters for caring about the continued welfare of all of our elephants as well as those elephants lucky enough to come to the Sanctuary in the future.



The Stars mailing introduced you to the first phase of the Elephant Sanctuary Expansion Project, which is separated into several phases. We feel fortunate to be able to approach the project in this manner; it feels more manageable this way.

The current focus is on the first land acquisition, the Lake Land: 700 acres with a 25-acre spring-fed lake. You guessed it--the girls will love the lake!

The Sanctuary took possession of the Lake Land property on October 9, 2002. The \$200,000 needed for the down payment has already been raised. Now we need to raise the remaining \$900,000 to pay off the land debt.



Once the funds are secured, the Sanctuary can move forward with the next land acquisition. The International Paper land acquisition is 1840 acres of undeveloped land bordering our current properties. This final land purchase will cost approximately \$1,840,000, providing the Sanctuary with a total of 2700 acres of elephant habitat.



Seven years of successful cohabitation with wildlife and human neighbors alike has taught us that good fences make good neighbors. The construction of our perimeter fence will be the project that follows the land acquisition. Enclosing the entire expansion with the appropriate fencing will cost approximately one million dollars. It will protect the elephants, making the Sanctuary secure from any human activity.

While the fence is under construction we plan to build several elephant warming huts throughout the property. The warming hut concept comes from years of observing how the Sanctuary elephants utilize their habitat throughout the changing seasons. It is apparent that facilities dictate much of a captive elephant's movement and behavior. Here at the Sanctuary we do not want to dictate or control elephants' behavior; instead we strive to support their natural behavior and movement. Warming huts will allow the elephants to remain deep in the habitat, far from the main barns, for extended periods of

Continued on pg 9



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Our Mission

The Elephant Sanctuary in Tennessee, founded in 1995, is the nation's only natural habitat refuge developed specifically for endangered Asian elephants. It operates on 900 acres surrounded by a 3,000-acre buffer zone in Hohenwald, Tennessee—85 miles southwest of Nashville.

It exists for two reasons: To provide a haven for old, sick or needy elephants in a setting of green pastures, old-growth forests, spring-fed ponds and a heated barn for cold winter nights.

To provide education about the crisis facing these social, sensitive, passionately intense, playful, complex, exceedingly intelligent and endangered creatures.

A 501(c)(3) Nonprofit Organization



By now you should have received what is being called The Stars mailing. This piece was the result of a true-life experience and inspired by Bunny. Since her arrival at the Sanctuary, Bunny has spent endless hours gazing into the star-filled night sky. Her transformation has been nothing short of inspirational, a shining example of how all captive elephants deserve to live.

Just days after The Stars mailing was distributed, Joanna Burke, our lead keeper, brought a tiny newspaper clipping into the office; it was Scott Blais' horoscope. With our Elephant Sanctuary Expansion Project foremost in our minds, this horoscope seemed to speak directly to the very person who will oversee this gargantuan project. Scott Blais, cofounder and facilities director of the Sanctuary, born October 26, was both shocked and exhilarated when he read his horoscope, which was posted in The Nashville Scene:

Scorpio (Oct. 23–Nov. 21) This would be a good time to launch a building project on the scale of India's Taj Mahal or Egypt's Great Pyramid. You should at least begin some magnificent creation, Scorpio. If I am reading the astrological omens correctly, there's a decent chance you could wangle 20,000 helpers to work for you night and day for the next 20 years. You could probably corral a team of holy men and wild women to consecrate your quest, as well as a squadron of psychotherapists and masseuses to soothe you during the challenge you'll face as you assemble your masterpiece.

We feel the stars are truly shining on this mammoth project and hope you will choose to be an integral part of the success.

Sincerely,
Carol Buckley and Scott Blais

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To learn more about The Elephant Sanctuary and all of the resident elephants visit www.elephants.com.

Elephant Update

Long-living beings, like humans and elephants, experience lengthy childhoods; ongoing, age-related changes in behavior and cognitive function; and an apparent awareness of self. Elephants are creatures that demonstrate that animals, though quite different in stature and status from ourselves, do indeed share some likenesses. The likenesses we share do not insinuate our sameness but rather an example of how two species express and utilize seemingly similar traits in different ways.

Given their bulk and intelligence one might question why elephants do not rule the world. The answer is simple: they do not desire to rule the world. It appears that although an elephant's need for nourishment, shelter and family may parallel ours, that is where the similarities end. Put simply, elephants have different priorities than many humans. An elephant's need for space, food and safety is self-limited to its immediate need. They do not take more than they need. Unless harassed, they do not harm or deprive other living creatures in order to satisfy their own needs. Contrary to the idea that they live day to day with no future in mind, research indicates that they not only understand the concept of future, they have developed biologically to meet the challenges of the future.

Dr. J. Shoshani has discovered that the elephant brain has developed a memory capacity twelve times greater than that of the human brain. Field research suggests the purpose of the huge memory capacity is not to harbor thoughts of the past for reminiscing but to facilitate and foster personal and herd welfare. Scientists have discovered that elephants retain mega rams of memory for survival, preparing for the future. Great amounts of information are stored, such as routes, encompassing a vast range, to food, water and shelter in all kinds of weather. Also fascinating is the fact that the matriarch stores the personal information of every elephant she has ever met. She retains information about each elephant's personality, disposition and relationship to the matriarch and others in her herd. The more the matriarch knows about another elephant and the herd the more equipped she is to protect and provide for her family. These are complicated and intelligent creatures with capabilities we have only begun to recognize.

It is no surprise to the Sanctuary staff that each elephant that comes here continues to evolve and transform, day after month after year. Their growth seems to be never ending as is their capacity for physical and emotional recovery. We know they are capable of recovering from past harmful or painful experiences. Do they acquire insight and wisdom from life experiences alone, or do they also benefit as well as from what is stored in cell memory from past generations? Field researchers are learning quickly that there is much about this species that we do not know.

This spring Sissy and Winkie literally discovered the upper pond. Until then the pond was simply a pool of

water in the path to greener pastures. Aside from being a brief stop to quench their thirst or snorkel a trunk full of water for a refreshing spray on their backs, the pond was of little interest to either of them. One day this spring that changed. We may never know what prompted them to plunge into the pond after all this time, but what a glorious sight to observe. Sissy, quite leery of water due to a near-death experience in a Texas flood, and Winkie, deprived of access to a pool for the better part of her captive life, found much enjoyment in the



Sissy and Winkie

pond. At first Sissy was hesitant to place her face underwater. Winkie, on the other hand, found head dunking quite entertaining. She plunged her head down to the muddy bottom, twisting, spinning and surfacing with gooey mud caked all over her face and trunk. After a few weeks, Sissy, too, engaged in full body submersion including her head. In classic playful elephant style, Sissy pushed on Winkie to encourage a rambunctious interchange, which concluded with the two effortlessly floating like abandoned buoys, motionless, with only the tops of their backs exposed. This experience has brought Sissy and Winkie even closer together, which has enabled Sissy to successfully bring Winkie into the herd.

Everybody loves Sissy; she is dear, sweet, calm, compassionate and loving. With the exception of Sissy, all of the other elephants are apprehensive of Winkie. Winkie is insecure and intimidated by other elephants. Her manner of dealing with her fear is to pretend to be fearless. She has used threats of aggression to keep the other elephants at bay. Sissy is patiently and successfully helping Winkie to see that the other elephants mean her no harm, no matter what her pre-sanctuary experiences tell her. In a daily effort to bring all of the elephants closer together, Sissy leads Winkie to the other elephants and stands by while they interact.

Continued on pg 11

International Elephant Assistance Projects



Helping elephants in their homeland is paramount to The Elephant Sanctuary and endorsed by our members. Thanks to your generous support, we have been able to make an impact on the lives of many elephants in India and Sri Lanka, in the wild as well as in captivity. Our goal is to expand our assistance throughout all ranges where elephants exist.

We continue to support antipoaching activity in **Corbett National Park**, one of India's last strongholds of wild Asian elephants. In addition to providing the meager monthly wages (\$67/month/person) for two antipoaching agents, the Sanctuary provides camping gear and fuel for the patrol vehicle as well as monitoring equipment such as cameras and a GPS device. The antipoaching agents literally put their lives on the line each day to protect wild elephants.

When we heard about the **Helping People Help Wildlife** project, we immediately became involved.

It is often not possible to undertake an effort that contributes to the welfare of people as well as wildlife. As one such unique effort, this rehabilitation program in Bhadra is richly deserving of support. Please visit our web site to learn more about this project, which we feel is a prime example of one solution to the elephant/human conflict.

http://www.elephants.com/helpingpeople_helpwildlife.pdf

Much like their wild counterparts, captive elephants are under intense pressure for space and food. Unique



to their captive situation is the burden of generating an income for their owner. Since logging was banned in India, captive Asian elephants' ability to generate money has dwindled, causing a great hardship to their owners and directly affecting the elephants' welfare. Returning most of these elephants to the wild is not an option, and the current solutions available are less than effective. Captive elephants are being sold to businessmen who hire unskilled keepers to exhibit the elephants in such unsuitable places as downtown Bangkok. The elephants virtually beg on the street



for a living. The big city is no place for an elephant, especially at night. The two worlds collide literally when vehicles on the busy streets crash into the mighty beasts as they make their way along the highways in the night. Recently a law was passed making it illegal to bring an

elephant inside the city limits. This band-aid solution does not solve the problem of how to raise the money to feed both elephants and owners.

In an effort to assist out-of-work pachyderms, the Sanctuary has agreed to fund an innovative grassroots project, **Captive Elephant Health Care Program**, conducted by EcoSystems-India, which provides professional free health care services to captive elephants by organizing regional elephant camps. The principal investigators are Dr. Kushal Konwar Sharma, Dr. Apurba Chakravorty, and Dr. Parag Jyoti Deka. Our involvement in the program is being overseen by our liaison in India, A. Christy Williams. Many needy elephants have already been helped through this program. We are pleased with the results and know that in the future this project will benefit a large number of captive elephants in India. Visit http://www.elephants.com/medical_assistance.htm#captive_health to learn more about this and other captive elephant health care projects funded by The Elephant Sanctuary in Tennessee.

The Elephant Sanctuary is also supporting an international elephant project in Sri Lanka.

Continued on pg 5

What prompted our involvement in the **Millennium Elephant Foundation** was an appeal for funds to treat a forty-year-old elephant, Mawatha Menike, living in Sri Lanka. Roughly translated, her name means “lady of the village.” This elephant was brought to the Millennium Elephant Foundation for medical attention, but it was too late. Only days after her arrival she died. Prior to her passing, lab results confirmed what many suspected—Mawatha Menike was suffering from tuberculosis. After she died, a necropsy was performed and revealed the advanced stage of her disease.

Because of Mawatha Menike, the Millennium Elephant Foundation of Sri Lanka has embarked on a far-reaching project to ensure that all captive elephants in Sri Lanka are tested for TB. Several days a week they deploy a mobile medical unit throughout the region, providing free medical care and testing to any elephant in need. Although many elephants in Sri Lanka are suspected of having TB, Mawatha Menike was the first in her country to be diagnosed with the disease while still alive. The Elephant Sanctuary in Tennessee helps to underwrite the good work done by the Millennium Elephant Foundation and enlists your support for the continued success of their programs.



Farewell to Another

*60 years,
old and gray,
Chandra,
the Mighty Matriarch,
passed this day.*

September 9, 2002

Chandra performed in the circus her entire life, spending nearly four decades with the Royal Hanneford Circus. In 2000, one of her fellow herd members, Tina, tested positive for tuberculosis. Even though Chandra did not test positive for the disease, she was required by law to undergo a full six-month treatment for the disease as a precautionary measure.

Along with the other herd members, Chandra was then returned to circus life on the road. In the months that followed her treatment, sources state that she showed signs of physical discomfort, an unwillingness to lie down—as it was extremely difficult to get up—and a listlessness that caused her to move very slowly. Finally she was unable to load in and out of

her transport trailer. This is when the Sanctuary received a promising phone call asking us to accept Chandra at the Sanctuary. Our answer was a most definite yes; it would be our honor to give Chandra retirement. After a short conversation to discuss the details, Sanctuary co-founder Carol Buckley hung up the phone and announced that Chandra would be moving to the Sanctuary within two weeks. All that remained was a vet check and permission from the State of Tennessee to bring in another elephant, all simple formalities.

What would transpire over the next 24 hours and the following 21 days was heart wrenching. Chandra's owners decided that they preferred to retire Chandra to an amusement park in Georgia. Another retired circus elephant lived at the park, an elephant Chandra had met during her years of entertaining. Sanctuary staff learned that Chandra's health condition was critical, and we questioned whether she should be moved at all. When moving day arrived, the veterinarian informed Chandra's owner that she was not well enough to travel and postponed her retirement for another week. On August 26, Chandra was transported to the amusement park. Two weeks later, September 9, she passed away. Many tears were shed for Chandra by people whose lives she had touched without even meeting them.

Federally Required Health Test—Annual Trunk Wash

The United States Department of Agriculture requires every elephant under their jurisdiction to be tested annually for tuberculosis. This mandate is the result of necropsies (animal autopsies) performed on two circus elephants who died while living and performing with a circus. The elephants tested positive for the human strain of tuberculosis. Both elephants were owned by John Cuneo of the Hawthorn Corporation, the same person who owns Lota.

Unfortunately, the very people whose job it is to ensure the health and welfare of elephants may be responsible for spreading this disease among captive elephants. Elephant caregivers, trainers, and keepers are suspected of infecting elephants with the human strain of the disease. Although elephants can contract the life-threatening disease from humans, there has never been a proven case in which an elephant infected a human with the disease.

Following the death of the two circus elephants, more TB-positive elephants were diagnosed—many in circuses. The disease can be treated but never cured. If the infected elephant is treated and kept in a low-stress environment that addresses his/her needs, the disease can remain inactive. Sadly, in many cases, as soon as the elephant is exposed to stress—such as traveling, performing, or living in impoverished conditions—the disease may again become active, causing the elephant’s health to deteriorate.

None of the elephants living at The Elephant Sanctuary have ever had tuberculosis, but annually



Joanna Burke collects a sample from Bunny

their caretakers collect trunk-wash samples for testing. The process by which a sample is collected varies with each elephant. With the cooperation of the elephant, sterile water is poured into her trunk. The elephant then blows the water into a plastic bag. The sample is collected, packed, frozen, and sent to a laboratory to be cultured. Since the testing process is culture growth, the result of the trunk wash takes several weeks.

With proper testing and treatment, the spread of this



Jenny and Scott



Sissy and Carol

Feed an Elephant for a Day — A Unique Gift



For \$30 you can feed Winkie, Bunny, Shirley, Jenny, Tarra or Sissy. Or, you can contribute in memory of Barbara. For \$60 you can feed two of them; and for \$210 you can feed all six of them for a day. Or you may choose to feed one elephant for several days.

With the donation you (or the person receiving the gift) will receive a certificate, a bio, and a picture of the elephant(s) you choose to feed. If this is a gift, the recipient will also receive a copy of next year's newsletters and membership for 1 year.

You can place your order at: <https://www.elephants.com.secure.moses.com/feedform.htm> or call the sanctuary at 931.796.6500, Ext. 26, M-F between 9am & 2pm. Say, "I want to feed an elephant for a day!" Be prepared to say which elephant(s) you want to feed, the amount of the gift (\$30, \$60, etc.), the recipient with complete name and address, and your name and address as the gift giver.

Expansion Update.....Continued from pg 1

time. The warming huts will be a source of warmth, providing shelter from inclement weather.

Hopefully, at the same time that the perimeter fence project and warming hut construction are underway we will be able to embark on the construction of a state-of-the-art, 30-elephant house. The progressive design of the elephant house will utilize the latest passive solar technology in an attempt to provide a facility that is both environmentally friendly as well as

elephant friendly. In addition to individual, chain free night stalls, the elephant house will sport a huge atrium with a dirt floor accessible from all elephant stalls with direct, free choice access out into the habitat.

With the expansion of land comes the flexibility for the Sanctuary to provide on-site education. Although we will never bring the public directly into the elephants' habitat we do plan to build observation opportunities on the perimeter of the habitat to allow visitors to get a feel for how and where the elephants live. This education complex has not yet been designed.

The Best Gift

A Personal Perspective

Every year for the past five years, we have "fed" all the elephants at the Sanctuary on Christmas day in honor of our mother. She's a giving person who taught us love and respect for all living things. We grew up feeding injured birds with medicine droppers and rescuing kittens from the gutter and dogs from the highway. Any gentleness and compassion we possess is thanks to her. Feeding the elephants, doing something as simple as providing their sustenance for one day, seemed like the best way we knew to honor what she taught us. When our mom opens the

package every year that contains a certificate explaining that the elephants are being fed that morning in her honor, her eyes fill with tears. Every year she says it is the best gift she has ever received.

We wanted to share our holiday tradition in hopes that it would inspire others to make a donation to feed the girls or help purchase the new land in honor of someone they love. What gift could be more thoughtful than one that helps make the world a better place?

Corey and Amy Estes

Investigation of circus commences after charges made at Scope show

excerpts from a story by Lou Misselhorn, *The Virginian-Pilot*, September 4, 2002

NORFOLK--A federal agency has launched an investigation of Sterling & Reid Circus after local police charged a handler with animal cruelty last month when an elephant was found beaten until its hide bled. The circus, which was performing at Scope at the time, has been the subject of abuse complaints for more than a decade, and at one point its operating license was revoked, said a spokesman for the U.S. Department of Agriculture.

The USDA investigation is the third in four years of the Sarasota, Florida-based outfit, officials said. Someone attending the circus reported the beating to an animal control officer. An investigation by the officer and an outside veterinarian determined that the elephant suffered multiple lacerations. Police said a tool used to control the elephant's movements was used.

Circus officials did not return a telephone call seeking comment. A spokesperson for the USDA, which regulates the care of circus animals, would not elaborate on the federal probe, but agency records and published accounts show an extensive list of complaints against Sterling & Reid dating to the late 1908s.

NOTE:

The elephants are owned by John Cuneo of the Hawthorn Corporation, the same person who owns Lota.

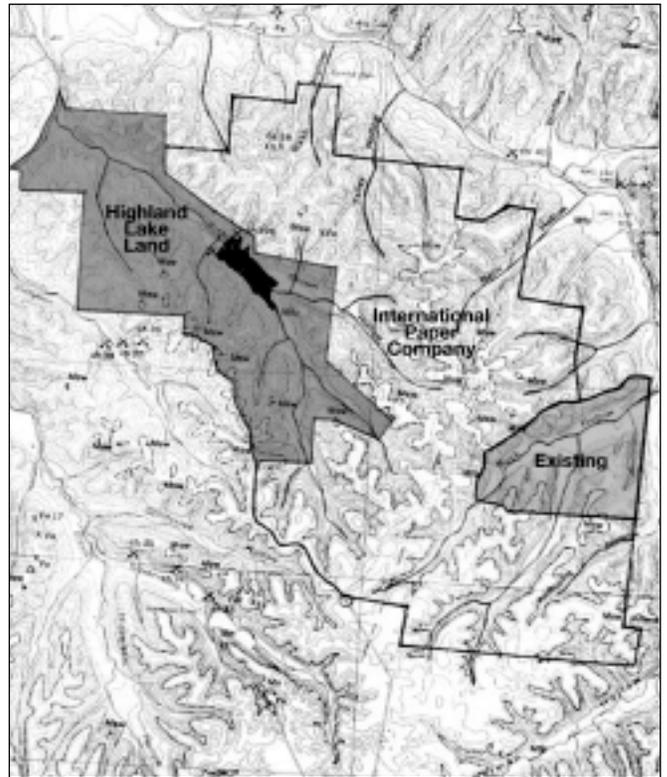
On October 18, David Creech was found guilty on three out of four counts of cruelty for beating an elephant in Norfolk, VA.

Acres for Elephant Expansion Project... You Can Help Us Grow



You, or your group, can help us reach our goal of "Room to Roam" by "purchasing" one or more Square Elephants—the space necessary for an elephant to stand at rest from trunk to tail (approximately 6 ft X 12 ft)—for a mere \$3.00 per square. For those wishing to contribute to relaxation, Sleepy Square Elephants—the space necessary for an elephant to lie down and take a nap (approximately 9 ft X 14 ft)—can be purchased for only \$5.00 each. For those wishing to contribute more space, we offer a Dumbo—20 SqE, or 1440 square ft, which is house size, for only \$55. Also available is a Jumbo—151 SqE, or 1/4 acre, for \$350 and a Mammoth—1 acre, for \$1400.

You can be the first in your group, neighborhood, classroom, or office to "purchase" real estate and help the Sanctuary provide a safe, comfortable refuge for retired Asian elephants.



This additional 2500 acres will provide diverse habitat for as many as 100 elephants from circuses and zoos. The 25-acre lake will be the focal point of elephant social activity and non-invasive elephant research. www.elephants.com/expansion.htm

___ SqE
@ \$3.00 = \$ _____

___ SSqE
@ \$5.00 = \$ _____

___ Dumbo
@ \$55 = \$ _____

___ Jumbo
@ \$350 = \$ _____

___ Mammoth
@ \$1400 = \$ _____

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Payment can be made via phone: 931-796-6500 or fax: 931-796-4810 or e-mail: elephant@elephants.com or:

US Mail: The Elephant Sanctuary
PO Box 393
Hohenwald, TN 38462

If your contribution is in honor or memory of someone, please complete the following:

In honor of In memory of: _____

Acknowledgment of this contribution should be sent to: _____

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City: _____ State: _____ Zip: _____

What Would You Choose?

14,000 acres of nature's finest, true elephant country or confinement in a man-made exhibit consisting of less than 10 acres. What would you choose?

The Zoological Society of San Diego and Lowry Park Zoological Society, working in concert with the Species Survival Program (SSP) of the American Zoo and Aquarium Association (AZA), plan to export eleven young elephants from the Mkhaya Game Reserve located within the Kingdom of Swaziland.

Mkhaya Game Reserve is in the southeast Swaziland, an unspoiled wilderness and haven for endangered species who roam more than eighteen thousand acres of magnificent African bush.

The Zoological Society of San Diego and Lowry Park Zoo claim that they are acquiring these eleven elephants in order to ensure the preservation and revitalization of a healthy captive population. They represent that such a captive population contributes to the hedge against extinction of this species in the wild. Sadly, whatever success experienced by both zoos with other species has no reflection on elephants. The history of both zoos shows quite the contrary: an elephant beating, elephant attacks, the sale of elephants to the circus industry, and a breeding moratorium on elephants already in their possession. It has been suggested that the Zoological Society of San Diego will actually be moving their existing, bonded herd to other facilities to make room for the new babies.

Both zoos defend their action of removing elephants from their native home claiming that these elephants

are destined to be culled (killed) if the zoos do not come to the "rescue." Recently we learned of an alternative solution: moving the elephants to another location on the continent of Africa. Funding for such a move has already been secured.

In a recent correspondence the Zoological Society of San Diego stated, "We have full faith in the processes, decisions, and wisdom of these organizations [the Convention on International Trade in Endangered Species (CITES), as well as the regulations of the United States Fish and Wildlife Service (USFWS)] to guide us in our project to rescue these animals and allow them to enjoy the highest standards of care available anywhere in the world." The pathetic few acres these two zoos plan to confine the elephants to will be shamefully inadequate, especially when compared to their current home of fourteen thousand acres. Bringing these or any elephants from in-situ situations to live in the restricted facilities offered by U.S. zoos is a questionable practice, one that appears to be self-serving not conserving.

Breaking News

Swaziland has decided not to sell the African elephants to two U.S. zoos.

The *Times* of Swaziland recently reported that Cabinet officials have learned that selling elephants is against the International Trade on Endangered Species Convention, which prohibits the sale of "elephants or other endangered species, be it fauna or flora."

Elephant Update.....Continued from pg 3

With Sissy by her side, Winkie is less frightened and more functional in a social setting. In the past few months all of the elephants have made great progress in understanding Winkie and recognizing that her threats of aggression are her way of keeping them at bay both physically and emotionally. Winkie is learning how to relate and has made marked progress. Many afternoons Winkie can be observed grazing alongside Jenny, Shirley, Tarra and Sissy. In the evenings if Winkie and Sissy come inside the barn, many times Tarra can be found with them, sharing their hay.

Their obvious need to socialize is the magnet that keeps them coming back to what appears to be an uncomfortable, unfamiliar situation for Winkie. We have complete faith that, with time and perseverance, Winkie will grow more and more comfortable in the herd, enabling her to benefit from the friendship of other elephants besides Sissy.

Since early spring, Jenny, Shirley, Tarra and Bunny chose to remain outdoors 24 hours a day. Their mini-migratory routes are predictable and allow caregivers to find them

in the habitat to provide three feedings each day. Their routine includes grazing across the pastures at dawn and arriving at the pond for an early morning bath. In true elephant fashion, they throw a thick layer of dirt onto their backs to protect their sensitive skin from the sun and biting insects. A nap soon follows. Some days they prefer to visit the pond again in the late afternoon prior to setting out on an adventure in the woods before sunset. The pond seems to be the Grand Central Station of sorts with single, paired and groups of elephants taking their turn in the pond as others return to pasture grazing.

Tarra continues to evolve and appreciate herd life. She spends less and less time alone and more time in the company of Bunny, Shirley and Jenny. Several times this year both Bunny and Tarra spent days in the back woods where Barbara is buried. Their footprints and manure can be found on and around Barbara's gravesite, which indicates they spend considerable time there.

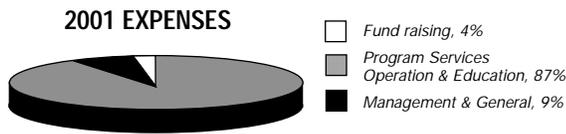
With our expansion comes the exciting opportunity for more elephants to share this nurturing space. The more elephants that come to the Sanctuary, the richer life will be for each and every one of them.

PLEASE CALL ON THIS IMPORTANT ISSUE

In only a few weeks, the Convention on International Trade in Endangered Species (CITES) will meet to decide whether to legalize the international ivory trade. Simply put, the decision to allow elephants to be legally killed for their ivory is being put to a vote.

Please voice your opposition by contacting the White House comment line: 202-456-1111

PLEASE NOTE: The 2002 spring newsletter contained an expenditure pie chart for 2001 with inadvertently switched categories. The correct category amounts are:



Sanctuary Much to Our Corporate Donors:

Tappedinto.com
Union Planters Bank
BellSouth
UPS
Baby Einstein Company, LLC

Please visit
<http://www.elephants.com/expansion.htm>
to learn about our expansion project to acquire 2500 acres of additional land, complete with a 25-acre lake.

Elephant Snorkeling Secrets Revealed

Recently, Discovery News reported that among mammals, elephants alone can snorkel while deeply submerged underwater, breathing through their trunks. "You can watch elephants go underwater and walk along the bottom until there's only the tip of its trunk sticking out," said John West, a pulmonary physiologist at the University of California, San Diego School of Medicine. Just how the creatures manage that feat has been a mystery—until now.

Elephants have a unique lung physiology, said West. "The lungs of the elephant are very strange. It's been known for some time that elephants don't have a pleural cavity—there's no cavity between the lungs and the chest wall. Instead, elephants have sheets of dense connective tissue that hold the lungs to the chest walls. Plates of the fibrous tissue can extend to accommodate the differential pressures during snorkeling and give the lungs room to breathe," said West.

Said Steve Osofsky, a veterinarian and elephant expert with the World Wildlife Fund, "We've known about the elephant's lack of pleural space, which is important when you're anesthetizing them: They need to be put on their sides to keep the lungs moving air."

**The Elephant
Sanctuary**

in Tennessee

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