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Minnesota Zoo - Annual report - Minnesota Zoologic



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MINNESOTA ZOO

# 2001 2002

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MINNESOTA  
ZOO



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# 2001 WAS AN EXTRAORDINARY YEAR FOR THE ZOO.

**LEE EHMKE**  
DIRECTOR

IN 2001, TWO EXHIBITS OPENED WHICH FORESHADOW THE EXCITING DIRECTION CHARTED BY OUR NEW MASTER PLAN. BOTH (THE WELLS FARGO FAMILY FARM AND MEERKATS OF THE KALAHARI) EXHIBITS OFFER CLOSE-UP OBSERVATION AND INTERACTION WITH ANIMALS. BOTH ENVIRONMENTS IMMERSE VISITORS AND ANIMALS IN LANDSCAPES CRAFTED WITH GREAT ATTENTION TO DETAIL.

Over the past year, two important new exhibits were unveiled at the Minnesota Zoo, foreshadowing the exciting direction charted by our new Master Plan. In July of 2000, the Wells Fargo Family Farm opened, reintroducing Minnesotans and our visitors to the once-familiar but increasingly “exotic” experience of a working farmstead. In May of 2001, the Meerkats of the Kalahari exhibit was completed, providing an attractive and appropriate setting for a group of these active and social animals. While the animal residents of these two new areas couldn’t be more different, the exhibits share some important attributes: both offer up-close observation and interaction with animals; both present complete environments that immerse visitors and animals in landscapes crafted with great attention to detail; and both feature varied strategies for interpretation including artful and interactive graphics, “play learning” opportunities and facilitated interactions with staff and volunteers.

Plans for exciting new ways to view and learn about the world’s largest cat progressed, with a new “Tiger Lair” and “Tiger Base Camp” set to open in the spring of 2002. Generous support from the Legislative Commission on Minnesota Resources and Zoo Board member Gary Fink will make possible a powerful and compelling exhibit highlighting the Minnesota Zoo’s contributions to tiger conservation. Significant gifts from a number of Board and Zoo Foundation members, together with a major grant from the Bush Foundation, also supported the commissioning of a Master Plan for the Zoo, a document that will guide development of our institution for many years to come.

All of these new initiatives were launched in a year of growing economic uncertainty. The strong support received by the Zoo during the year—from individuals, corporations and foundations—is a telling demonstration of the community’s receptiveness to our mission. Thanks to our Boards, Zoo members, legislators, administrators, staff, and guests for continuing to provide the inspiration and energy for our increasingly vital work.



# A LETTER FROM THE CHAIRMEN

WHAT HAS EMERGED IS A  
TREMENDOUSLY EXCITING  
VISION FOR THE MINNESOTA  
ZOO, ONE THAT WILL  
CREATE POWERFUL NEW  
OPPORTUNITIES TO CONNECT  
VISITORS WITH OUR  
CONSERVATION MESSAGE.

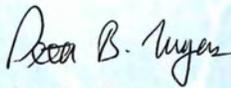
Our warmest appreciation goes out to all friends, sponsors, and partners of the Minnesota Zoo. Without your contributions of time, enthusiasm and financial support, we never could have made the remarkable progress we did during the past year. Our latest attractions—the Wells Fargo Family Farm and Meerkats of the Kalahari—are perhaps the most visible signs of a new momentum that is energizing this great institution through support like yours.

Equally significant, albeit not as readily apparent, was the development of a comprehensive Master Plan for the Minnesota Zoo. When the original vision of the “New Zoo” emerged in the early 1970s, it was articulated in a bold, far-reaching Master Plan that was widely hailed for its innovative approach to zoo design. Unfortunately, less than one-third of that plan was ever implemented. The Zoo’s full potential was never realized.

The arrival of Lee Ehmke as our new CEO in August 2000 created an opportunity for the Zoo to embark on a major long-range planning initiative. The Board of Directors authorized the creation of a new Master Plan to guide the next twenty to thirty years of growth. During the intensive six-month period of the Plan’s development, Board members, Foundation Trustees, staff and

consultants engaged in lively and frequent discussions about the Zoo's future. We involved donors, legislators and representatives of the Governor's office in the process, and conducted surveys of Zoo guests. By seeking input from these and other stakeholders, we managed to instill a sense of shared ownership in the Plan.

What has emerged is a tremendously exciting vision for the Minnesota Zoo, one that will create powerful new opportunities to connect visitors with our conservation message. Implementation of the Master Plan will require a significant commitment from the State of Minnesota, corporations, foundations and individual donors. However, we believe that the community has the will, and the ability, to support this visionary plan that will transform the Minnesota Zoo into one of the country's premier conservation education organizations.



Peter B. Myers  
Chair  
Minnesota Zoo Board of Directors



Jeffrey A. Ruehle  
Chair  
Minnesota Zoo Foundation Board of Trustees

With our  
Master Plan in  
place as a road  
map to guide us—  
and with the con-  
tinued support of  
our Zoo friends—  
our journey will  
be successful.



Propagating pronghorn, weaning wolverines and moving meerkats to Minnesota are just a sampling of the many accomplishments of the Minnesota Zoo Biological Programs Division in fiscal year 2001.

The year got off to an auspicious start—the Wells Fargo Family Farm opened in July of 2000 to the delight of many Zoo guests. The farm features endangered breeds of livestock, such as American Cream draft horses, Gloucestershire Old Spot pigs and Dutch Belted cows. Gene, the world's first bovine clone, and two cloned heifers teach guests about advances in farm technology. The heifers are on loan from Infigen of DeForest, Wisconsin.

The Minnesota Trail keepers celebrated Valentine's Day when three wolverine kits were born on February 14. The smallest, a male, was repeatedly rejected by his mother and was hand-raised by Zoo staff. He was later reintroduced to his siblings and the three now alternate their time on exhibit with the Zoo's other wolverines.

The Edward H. Bean Award was awarded to the Minnesota Zoo for long-term propagation of pronghorn. The award, presented annually at the American Zoo and Aquarium Association (AZA) meeting, is offered in recognition of "efforts by Institution, Related Facility, and International Facility members in the management and husbandry of various animal species in their care." The Minnesota Zoo, which has exhibited pronghorn since 1980, has had 138 births altogether. Minnesota Zoo keepers have initiated the hand-raising procedure of 122 fawns. Pronghorn have been considered difficult to maintain in captivity due to temperament and medical conditions.

One of the Zoo's most famous residents was sent to the Riverbanks Zoo on a breeding loan. Globus, an Amur tiger who came to the Minnesota Zoo as an orphan from the wild, was sent to the North Carolina zoo per the recommendation of the Tiger Species Survival Plan (SSP). Since he was originally a wild tiger, Globus is very valuable genetically. Breeding him to carefully selected females will help diversify the captive Amur tiger gene pool.

## BIOLOGICAL PROGRAMS

Zoe, an American Cream draft horse filly, was born in March 2001—she weighed 115 pounds at birth. Prince and Duke, the American Cream geldings, kept busy pulling the farm tram and making their debut in the Winter Carnival parade.

Other significant births at the Zoo included three Bali mynah chicks. The Bali mynah is an endangered species—fewer than ten of these birds are left in the wild. In February, a black-throated laughing thrush chick hatched—the first such birth at the Minnesota Zoo. The chick fledged on February 3 and was hand-reared. A second black-throated laughing thrush chick hatched in early March. A Sichuan takin and two baby camels were new additions to the Northern Trail.

Seven Japanese macaque males also left Minnesota, bound for a sanctuary in Texas. A male macaque from the Lee Richardson Zoo took their place, albeit cautiously. The macaque had to be introduced to the troop gradually to assume his position in the troop's social hierarchy. Converting the troop to a breeding colony will increase the macaques' activity level and will diversify the current gene pool.

Some new faces at the Minnesota Zoo were seen literally face-to-face. Four meerkats, one from the Atlanta Zoo and three from the Fort Worth Zoo, moved into a brand-new exhibit in May. Eye-level viewing windows and an acrylic cylinder set in the middle of the exhibit allow guests to view the meerkats up close in their African Desert habitat.

Several potential breeding pairs were set up at the Zoo per SSP recommendations. A male Amur leopard was acquired from Ontario, Canada and a female from the Erie Zoo. A male Bornean sun bear arrived from Malaysia and is on exhibit with a female that has been at the Zoo for three years. A male Malayan tapir was acquired through a breeding loan agreement with the Oklahoma City Zoological Park and a female pygmy slow loris was acquired from the Santa Barbara Zoo.

In order to keep the Minnesota Zoo animals happy and healthy, keepers continued to develop the Zoo's animal enrichment programs. These programs encourage natural behaviors and stave off boredom for animals at the Zoo. The sun bears receive bear "popsicles," made from fruits and vegetables frozen into a water mold. The Asian small-clawed otters get "logs" filled with treats that they pick out with their agile paws. Mealworms and crickets are buried throughout the meerkat exhibit to stimulate natural digging behavior.

Some of the Minnesota Zoo's enrichment programs were featured during "On the Road" with Jason Davis on Channel 5. For part of this special, tiger keeper Ross Taylor crafted two snowmen in the visage of a news anchor and a photographer.

Their microphone, buttons and eyes were made from meatballs. The tigers, let out onto exhibit to investigate, were shy at first, but promptly devoured the microphone and other "accessories."

Zoo Director Lee Ehmke, Zoo Veterinarian Jim Rasmussen, and Jim Streater, Director of Biological Programs, met with University of Minnesota School of Veterinary Medicine staff to discuss partnership opportunities. University of Minnesota veterinary students will be on Zoo site periodically in most areas.

Bioprograms staff participated in a number of SSPs and TAGs (Taxon Advisory Groups) and acted as studbook keepers. The SSP species found in our collection include: Malayan sun bear, clouded leopard, Amur tiger, Mexican gray wolf, Asian small-clawed otter, red panda, white-cheeked gibbon, pygmy loris, Japanese macaque, Przewalski's horse, Matschie's tree kangaroo, greater hornbill, Bali mynah, and the Victoria crowned pigeon.

IN ORDER TO KEEP THE  
MINNESOTA ZOO ANIMALS HAPPY  
AND HEALTHY, KEEPERS CON-  
TINUED TO DEVELOP THE ZOO'S  
ANIMAL ENRICHMENT PROGRAMS.





Wildlife conservation starts  
at home and can reach all the  
way across the globe.

# CONSERVATION

The phrase "wildlife conservation" likely conjures up images of intrepid scientists camped out in tents, patiently waiting to catch a glimpse of their elusive subject. That is, however, only part of the picture. Wildlife conservation starts at home and can reach all the way across the globe. The Minnesota Zoo is involved in the preservation of wildlife and of wild lands at home as well as in many spots around the world.

Locally, the Minnesota Zoo is involved in creating habitats that encourage the eastern blue bird to nest on-site. In addition, the Zoo partnered with Hennepin County Parks and the DNR (for the seventh straight year) to release trumpeter swans in the Heron Lake complex. Of the thirteen two-year-old swans released this year, five were born at the Zoo.

On a national level, several bioprograms and conservation staff participated in conservation efforts. The year's highlights include:

Kevin Willis attended the Atwater Prairie Chicken meeting in Fossil Rim, Texas. Willis assisted with the release of prairie chickens July 12-14.

Bird show staff raised \$3,000 in donations toward acquiring rainforest acreage in Peru over the summer of 2000. Zoo Director Lee Ehmke presented a check for this amount to the Nature Conservancy on Monday, January 29. Floyd, a rose-breasted cockatoo, helped with the presentation, as well as with raising the money.

Ron Tilson, Director of Conservation, chaired the AZA Tiger SSP Masterplan meeting hosted by the St. Louis Zoo. The committee developed a complete set of tiger breeding, transfer and surplus recommendations for Amur, Sumatran and Indochinese tigers for all AZA zoos in North America and Canada. Kathy Holzer, Zoo Registrar and Population Management Advisor to the Tiger SSP, performed all of the genetic and demographic analyses.

Kathy Holzer attended the Bio-complexity Workshop at White Oaks Plantation at the invitation of the National Science Foundation in June. Jim Streater, Director of Bioprograms, was elected to the SSP Sun Bear Management Committee.

Blood and skin biopsy samples will be provided for the Frozen Zoo at San Diego Zoo including those of the sun bear, pygmy loris, Przewalski's horse, clouded leopard, Amur tiger and Mexican gray wolf.

Nine staff members participated in SSP and TAG meetings and programs.

The Minnesota Zoo had a strong international presence in wildlife conservation in FY01. As the headquarters for the Tiger SSP and home of the Amur tiger studbook records, the conservation work was dominated by tiger-related activities. However, many other species were studied and supported as well.



Fred Swengel, Tropics Zookeeper, spent two weeks working on the Philippine Bat Project. This is a joint project of the Minnesota Zoo, the Lube Foundation, Silliman University's Center for Tropical Conservation Studies (CenTrop), and the Protected Areas and Wildlife Bureau (PAWB) of the Philippines' Department of the Environment and Natural Resources.

The Minnesota Zoo's Adopt-A-Park Program in Ujung Kulon National Park in Indonesia, now entering its eleventh year, continued to help support the ongoing census of wild Javan rhinos. This program also helped implement a new conservation initiative—anti-poaching patrols of Ujung Kulon's coastline. This work is in cooperation with the AAZK 'Bowling for Rhinos' Program and WWF-Indonesia program. The Minnesota Zoo received a donation of over \$21,000 from the American Association of Zoo Keepers (AAZK) as part of their 'Bowling for Rhinos' program. The funds are administered as part of the Adopt-A-Park program.

Meanwhile, the Minnesota Zoo's efforts to save the world's largest and most beautiful cats led to Indonesia and South China and into cyberspace.

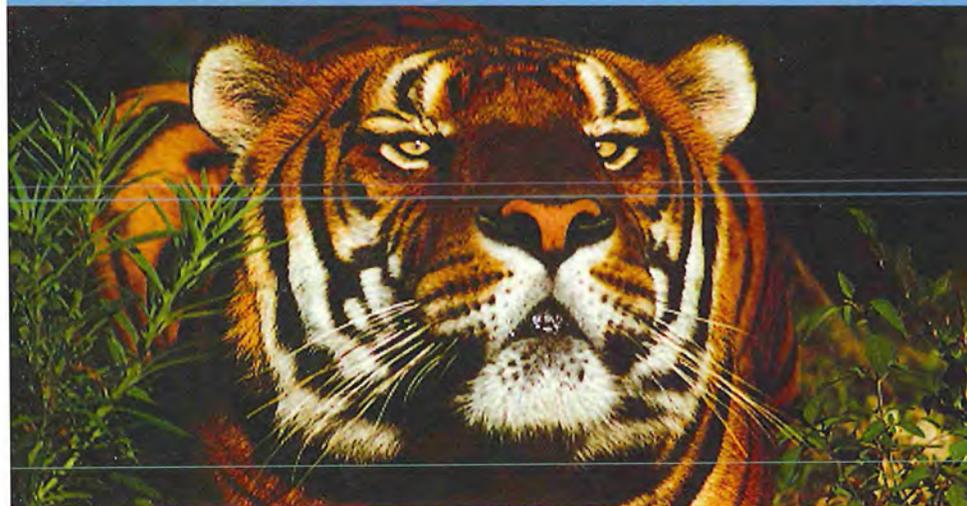
Indonesia is home to one of the five remaining species of tigers, the Sumatran tiger (*Panthera tigris sumatrae*). After eighteen months of negotiations, Ron Tilson, Director of Conservation, negotiated a new Memorandum of Understanding (MoU) with the Directorate General of Forest Protection and Nature Conservation (PHKA) in Indonesia. The MoU permits the Sumatran Tiger Project to

continue field operations and empowers the project to have a much wider scope of operations in Sumatra. This cooperative project—supported by The Tiger Foundation, the Sumatran Tiger Trust and Save The Tiger Fund—proposes to address the immediate priorities of Bukit Tigapuluh National Park in central Sumatra. This park is one of only six national parks left on the island of Sumatra (about the size of California) where tigers still flourish.

Although tigers are found in the wild at this park, their future is far from secure. Bukit Tigapuluh (which translates as 30 mountains) is one of the most recent national parks to be designated in Indonesia. It is also one of the most biologically important, representing a large area of some of the most valuable habitats in Sumatra.

To support the project, a grant was submitted by the National Fish and Wildlife Foundation's Save The Tiger Fund. This project is designed to develop and insert two tiger conservation teams into Bukit Tigapuluh National Park with the dual purpose of censusing and evaluating tigers, their prey and habitat, and the threats to them. At the same time, it will provide effective protection from poachers, loggers and trespassers.

This cooperative project with the Indonesian Ministry of Forestry proposes to address the immediate priorities of the park by tackling the tiger conservation problem from all sides, focusing on enabling forest rangers to be active and effective custodians of the park. Intensive protection of the park and its tiger population is also an integral part of the





ON ANY SINGLE DAY, A GLOBAL AUDIENCE REPRESENTING OVER 90 COUNTRIES VISITS THE SITE.

plan, as is the implementation of ongoing monitoring projects, using infrared activated remote cameras, that will provide constant feedback to the park's management staff.

A grant from The Tiger Foundation was received to support costs of continuing to work on satellite imagery maps for Sumatra and the Sumatran Tiger Project in cooperation with Dr. Philip Nyhus, now at the Department of Environmental Studies and Biology, Colby College, Maine.

In February, Minnesota Zoo conservation staff helped the Chinese State Forestry Administration (SFA) launch its South China Tiger Protection Program. The objectives are to support the SFA to train, equip and advise Chinese field survey teams in censusing wild South China tigers distributed over a vast landscape in the provinces of Guangdong, Hunan, Jiangxi, Fujian and Zhejiang in south central China.

The ultimate goal of this program is to find and photograph as many wild tigers as possible, and to combine these photos with other field data on the status of tiger prey, habitat quality, and perceived threats. This data will allow the SFA to establish where and how many South China tigers still remain in the wild, what their probability of surviving is, and what needs to be done to secure their future.

The Five Tigers Web site ([www.5tigers.org](http://www.5tigers.org)) continued to provide the public, scientific and conservation communities with an international forum for exchanging information on tigers. It provides multiple levels of information and educational concepts ranging from general to scientific.

In March the National Fish and Wildlife Foundation's Save the Tiger Fund informed the Conservation office that our FY01 proposal for funding was approved by the steering committee. The grant will support two half-time technical editors and costs of operation of the Web site, which is hosted by the Minnesota Zoo.

Traffic on the Web site has steadily increased from its inception to its current level. There is a growing international recognition of the site, reflected by receipt of numerous top educational awards and honors and visitors from more than 90 countries. On average, there are about 2,000–3,000 users per day, and each user downloads an average of 200–400 megabytes of information. On any single day, a global audience representing over 90 countries visits the site. We subscribe to online news service and post current news about tigers from international newspapers and wire services in our News section on a daily basis.



# DEVELOPMENT

Each year the Minnesota Zoo receives strong support from the community. The annual report offers us another opportunity to express our gratitude to those who have helped us continue our mission of strengthening the bond between people and the living earth. Following are just a few examples of the outstanding and generous contributions we received in Fiscal Year 2001 and the programs they supported.

The Beastly Ball, an annual black-tie event, has provided support to the Zoo for thirteen years. The tireless efforts of volunteers and staff, and the generosity of individuals and businesses, helped provide \$120,000 in support for the Zoo in 2001.

The Minnesota Zoo completed its Master Plan in 2001. This exciting project was made possible by generous support from The Bush Foundation, Edward N. and Sherry Ann Dayton, Peter and Karla Myers and a number of other generous supporters.

A grant from the William W. and Nadine M. McGuire Family Foundation allowed 4,000 third grade students from Saint Paul and Rochester to visit the Zoo (free of charge) in 2001. Support provided by The Medtronic Foundation allowed the Zoo's Education Department to work with 80 students through the Mentor Program. Both of these programs are detailed in the education section.

Funding from Flint Hills Resources (formerly Koch Petroleum Group) provided fun and interactive learning for

more than 3,000 children and family groups in the southeast metro area through our Zoomobile Outreach Program.

The Zoo's Tiger Conservation Program received support from a number of corporate, individual and foundation supporters. We especially wish to thank the National Fish and Wildlife Foundation and Exxon Save the Tiger Fund, The Tiger Foundation, The Sumatran Tiger Trust and Save China's Tigers for their generous support.

Periscope, the Zoo's pro bono advertising firm, donated fantastic creative ideas and many hours of work to help make the Zoo top of mind in our community.

The Zoo also received a number of corporate contributions and sponsorships from area businesses including Cub Foods and Grant Thornton (Special Events), Richfield Bank (Animal Sponsorship Program), Rosemount Inc. (Animal Exhibits), Veterinary Imaging Consulting, Inc. (Veterinary Equipment), U.S. Bank (Annual Fund), and Wells Fargo (Family Farm Exhibit operating support).

The Minnesota Zoo received significant funding for general operating funds through the bequests of the Phyllis S. Poehler Estate and the Dr. R. H. Reimer Estate.

The Donald Weesner Charitable Trust continues to provide the Zoo with generous ongoing support for capital and programmatic needs.

Although the Minnesota Zoo receives a substantial portion of its operating support from the State of Minnesota (about 40%), we depend a great deal on our donors, corporate partners, guests, sponsors and volunteers to contribute the remaining support. Private contributions provided more than \$1,200,000 in support for the Zoo in 2001. Space constraints prevent us from listing each and every contributor, but we sincerely thank all who so generously gave in 2001.



THE ANNUAL REPORT OFFERS US ANOTHER OPPORTUNITY TO EXPRESS OUR GRATITUDE TO THOSE WHO HAVE HELPED US CONTINUE OUR MISSION OF STRENGTHENING THE BOND BETWEEN PEOPLE AND THE LIVING EARTH.

DEVELOPMENT

# EDUCATION

ZOO CAMP PROGRAMS PROVIDED OVER 2,000 KIDS A WAY TO HAVE A FUN, YET EDUCATIONAL, SUMMER EXPERIENCE.

The Minnesota Zoo Education Department touched the minds, hearts and imaginations of hundreds of thousands of children and adults during FY01. Education programs at the Minnesota Zoo are designed to engender a regard for the earth and its inhabitants, thereby encouraging action to conserve the environment.

School programs attracted 111,752 students in 1,768 organized school groups in 2001. Close to twelve percent of students in the state of Minnesota enjoyed classes such as Shark Mania and Vanishing Animals. Students from 68 of Minnesota's 87 counties visited the Minnesota Zoo on field trips.

The importance of maintaining a global perspective is emphasized during the Zoo's Language Days. Students from Minnesota schools present information on their chosen animal and on its habitat in the language of the day. Other school groups visit the Zoo on these days to learn about the animals in the language they are studying. A total of 4,901 students participated in German, French and Spanish Days. Other special events, which include Career Days, Math Days, and Earth Fest, drew a total of close to 4,000 students.

Many students from the School of Environmental Studies participated in the Zoo's language days. The Zoo has continued its successful partnership with the SES for the fifth year. In FY01, Zoo staff members Kevin Willis, Laura Trechsel and Beth Jo Schoeberl lectured at SES.

Zoo Camp programs provided over 2,000 kids a way to have a fun, yet educational, summer experience. Zoo Campers participated in a wide variety of classroom and outdoor adventures.

The Minnesota Zoo Mentor Program served over 100 youths from the core city areas with a weeklong experience with Zoo staff. The attendees learned about the Zoo and explored potential science-related careers. This is a rare positive interaction in a science learning environment for many of the participants. Now in its eighth year, this program has been funded by annual support from the Medtronic Foundation's STAR Grant program.

The Minnesota Zoo Safari, funded by Dr. and Mrs. William McGuire, entered a very exciting fourth year. This program provides an educational Zoo experience for public school students in the third grade from Mankato, Rochester, and St. Paul. This past school year (September 2000–June 2001), 5,176 students participated in the Minnesota Zoo Safari.

Forty groups, composed of students ranging from fourth grade to college age, took advantage of the Zoo's Behind-the-Scenes Tours. Participants, led by a Zoo naturalist, explored a wide range of subjects such as animal management, Zoo careers, exhibit design, animal behavior, and behavioral enrichment.

More than 178,000 people rode the Monorail this past year. Along with providing Zoo guests with an enjoyable,



educational trip around the Northern Trail, the Monorail is an integral part of several special programs including *Animal Adaptations* and *A Furry History of Minnesota*.

Zoomobile, the Minnesota Zoo's outreach program, connected over 73,000 people with animals, the environment and the Minnesota Zoo. The Zoomobile logged 721 hours of programming in FY 2001. These programs took the Zoomobile crew and their animal charges over 45,000 miles, from Roseau to Rochester and everywhere in between!

Zoomobile presented \$12,500 worth of pro bono and underwritten programs and continued to provide assistance to the Public Relations, Development and Special Events departments. The appeal and popularity of the program helped the Development staff generate another \$55,000 in sponsorship revenue for the Zoo (courtesy of Flint Hills Resources — formerly Koch Petroleum Group). This is the fourth year that a sponsor has given \$50,000 or more to sponsor the Zoomobile program.

Zoomobile naturalists and animals made a trip to the State Capitol again this year. A peregrine falcon, a bearded dragon, a snake and hedgehogs interacted with children, legislators and Capitol staff at the annual Minnesota Zoo Day.

The slow lorises from Zoolab made their television debut on a March episode of *Almanac* (Twin Cities Public Television). Other Zoolab encounters with fame included a tour for JC Chassez of 'N Sync as well as a visit by Wild Kingdom's "right-hand man," Jim Fowler.

ZOOMOBILE, THE MINNESOTA ZOO'S OUTREACH PROGRAM, CONNECTED OVER 73,000 PEOPLE WITH ANIMALS, THE ENVIRONMENT AND THE MINNESOTA ZOO.

# OPERATIONS

The Operations Division encompasses myriad departments—marketing, public relations, guest services, exhibit shops, sales, gift shop, building services and grounds—which usually work together, but each on individual priorities and timelines. The opening of the Meerkats of the Kalahari exhibit required every department to pull together for this special occasion.

Meerkats of the Kalahari was designed entirely in-house by the Minnesota Zoo's talented exhibit design staff and built by staff in the shops, grounds and horticulture departments. The staff, along with Zoo Director Lee Ehmke, created a truly interactive, educational exhibit that sets the stage for things to come at the Minnesota Zoo. Meerkats of the Kalahari is a seasonal exhibit re-creating the harsh landscape of the Kalahari desert, the place that this type of mongoose calls home. An acrylic cylinder pops up right in the middle of the exhibit. Kids, and agile adults, can crawl through a tunnel and come nose-to-nose with the denizens of the exhibit. A Web cam, donated by WCCO, allows Web site visitors to see the meerkats up close. Interpretive graphics for the exhibit were designed and fabricated by the Science Museum of Minnesota.

The excitement of this new exhibit was conveyed flawlessly by the Minnesota Zoo's pro bono advertising firm—Periscope—in a fully integrated advertising campaign. The billboards, and coordinating collateral materials, created quite a buzz. The ads made the comparison between young children and the meerkats themselves. The members' preview

and VIP night provided a sneak peek at the new exhibit to the guests in attendance, including the four children featured in the ad campaign. "Shop Africa," a new gift store created in conjunction with the Meerkat exhibit, opened for the first time that night.

The Meerkats grand opening capped off a year filled with special events. Sixteen special events were held at the Zoo in FY01, compared to six in FY00. Events included Farm Babies, Walk the Wild Lights, ABC Weekend, Tropical Beach Party, Wolf Week and Tiger Weekend.

Tiger Weekend focused on the problems tigers are facing in their battle for existence throughout Asia and what the Minnesota Zoo is doing to help protect wild tigers and maintain captive tigers. It was a celebration of the Minnesota Zoo's past fifteen years of tiger conservation efforts.

Zoo membership sales reached a record high of 27,746 member households. To better serve these members, a member e-mail service was instituted. Members who provide the Zoo with their e-mail address receive up-to-date information on concerts, animal births and other relevant information.

OPERATIONS



THE OPENING  
OF THE  
MEERKATS OF  
THE KALAHARI  
EXHIBIT  
REQUIRED EVERY  
DEPARTMENT  
TO PULL  
TOGETHER FOR  
THIS SPECIAL  
OCCASION.

Another FY01 membership benefit was the addition of Animal Enrichment Nights. Zoo members help keepers prepare an enrichment activity for one of the animals at the Zoo and then watch as the animal is introduced to their creation. One group made a hammock out of fire hoses for the sun bears, another group made tiger popsicles!

In keeping with all of the changes—the Zoo's printed material got a new look. Periscope designed a look and feel for the Zoo's collateral materials that better conveys our mission of strengthening the bond between people and the living earth. A new Zoo map was released that makes it much easier to navigate the acres of exhibits.

The volunteer corps, as always, was crucial to the Zoo's success. During FY01, 575 volunteers donated 95,783 hours to the Minnesota Zoo. Using averaged wage figures, this exceeds \$1.6 million in terms of monetary contribution. Jude Dean, a 24-year veteran of the Zoo's volunteer program, reached 10,000 hours of service in April—that's close to five years of full-time work.

Zoo Director Lee Ehmke was featured on Minnesota Public Radio's Midmorning Show. Minnesota Public Radio host Katherine Lanphear spoke with Lee about his first year as director and his vision for the Minnesota Zoo.

Group and attendance-driven sales numbers both grew in FY01. Aggressive direct mail, telemarketing and personal selling resulted in 140% growth in the group category. Attendance- and event-driven sales grew over 34% combined. Birthday parties alongside the snow monkey exhibit were very popular—over 600 parties were held at the Zoo.

Music in the Zoo, the outside concert series, was immensely popular again this year. Concerts included Rick Springfield, Keb Mo, Robert Cray and Tower of Power. The Weesner Family Amphitheater was named the best outdoor concert venue by music critic Jon Bream of the *Star Tribune*.



## ANIMAL COLLECTION

### MAMMAL SPECIES LIST

57 species

30 June 2001

| Common Name                | Scientific Name                      | Specimens |
|----------------------------|--------------------------------------|-----------|
| White-Cheeked Gibbon       | <i>Hylobates concolor leucogenys</i> | 2         |
| Japanese Macaque           | <i>Macaca fuscata</i>                | 17        |
| Slow Loris                 | <i>Nycticebus coucang</i>            | 5         |
| Pygmy Loris                | <i>Nycticebus pygmaeus</i>           | 2         |
| Mexican Wolf               | <i>Canis lupus baileyi</i>           | 2         |
| Grey Fox                   | <i>Urocyon cinereoargenteus</i>      | 1         |
| Amur Tiger                 | <i>Panthera tigris altaica</i>       | 5         |
| Amur Leopard               | <i>Panthera pardus orientalis</i>    | 2         |
| Clouded Leopard            | <i>Neofelis nebulosa</i>             | 4         |
| Fishing Cat                | <i>Felis viverrinus</i>              | 4         |
| Puma                       | <i>Felis concolor</i>                | 2         |
| Canadian Lynx              | <i>Felis lynx canadensis</i>         | 2         |
| Malayan Sunbear            | <i>Helarctos malayanus</i>           | 2         |
| Red Panda                  | <i>Ailurus fulgens</i>               | 3         |
| Wolverine                  | <i>Gulo gulo</i>                     | 8         |
| Fisher                     | <i>Martes pennanti</i>               | 3         |
| Ermine                     | <i>Mustela erminea bangsi</i>        | 2         |
| North American River Otter | <i>Lutra canadensis</i>              | 3         |
| Asian Small-Clawed Otter   | <i>Aonyx cinerea</i>                 | 3         |
| Spotted Skunk              | <i>Spilogale putorius</i>            | 4         |
| Binturong                  | <i>Arctictis binturong</i>           | 2         |
| Slender-Tailed Meerkat     | <i>Suricata suricatta</i>            | 4         |
| Bottle-Nosed Dolphin       | <i>Tursiops truncatus</i>            | 4         |
| Big Fruit Bat              | <i>Artibeus jamaicensis</i>          | 43        |
| Indian Flying Fox          | <i>Pteropus giganteus</i>            | 16        |
| Malayan Tapir              | <i>Tapirus indicus</i>               | 3         |
| Asian Wild Horse           | <i>Equus przewalskii</i>             | 9         |
| Domestic Horse             | <i>Equus caballus</i>                | 4         |
| Bactrian Camel             | <i>Camelus bactrianus</i>            | 10        |
| Moose                      | <i>Alces alces</i>                   | 3         |
| Woodland Caribou           | <i>Rangifer tarandus caribou</i>     | 11        |
| Reeves' Muntjac            | <i>Muntiacus reevesi</i>             | 2         |
| Malayan Chevrotain         | <i>Tragulus napu</i>                 | 8         |
| Pronghorn                  | <i>Antilocapra americana</i>         | 12        |
| American Bison             | <i>Bison bison</i>                   | 6         |
| Takin                      | <i>Budorcas taxicolor tibetana</i>   | 4         |
| Musk Ox                    | <i>Ovibos moschatus</i>              | 9         |
| Nilgiri Tahr               | <i>Hemitragus hylocrius</i>          | 3         |
| Domestic Cow               | <i>Bos taurus</i>                    | 15        |
| Domestic Goat              | <i>Capra hircus</i>                  | 41        |
| Domestic Sheep             | <i>Ovis aries</i>                    | 8         |
| Domestic Pig               | <i>Sus scrofa</i>                    | 26        |
| Matschie's Tree Kangaroo   | <i>Dendrolagus matschiei</i>         | 2         |
| North American Opossum     | <i>Didelphis virginiana</i>          | 5         |
| Three-Banded Armadillo     | <i>Tolypeutes matacus</i>            | 1         |
| African Hedgehog           | <i>Atelerix albiventris</i>          | 1         |
| Large Tree Shrew           | <i>Tupaia tana</i>                   | 1         |
| Eastern Cottontail Rabbit  | <i>Sylvilagus floridanus</i>         | 1         |
| Domestic Rabbit            | <i>Oryctolagus cuniculus</i>         | 5         |
| Beaver                     | <i>Castor canadensis</i>             | 2         |
| Black-Tailed Prairie Dog   | <i>Cynomys ludovicianus</i>          | 15        |
| Prevost's Squirrel         | <i>Callosciurus prevosti</i>         | 5         |
| Southern Flying Squirrel   | <i>Glaucomys volans</i>              | 28        |
| North American Porcupine   | <i>Erethizon dorsatum</i>            | 5         |
| Norway Rat                 | <i>Rattus norvegicus</i>             | 8         |
| Chinchilla                 | <i>Chinchilla laniger</i>            | 7         |
| Guinea Pig                 | <i>Cavia porcellus</i>               | 3         |

Total Specimens

408

### BIRD SPECIES LIST

89 species

30 June 2001

| Common Name                | Scientific Name                        | Specimens |
|----------------------------|--|-----------|
| Bald Eagle                 | <i>Haliaeetus leucocephalus</i>        | 2         |
| African Fish Eagle         | <i>Haliaeetus vocifer</i>              | 1         |
| Red-Tailed Hawk            | <i>Buteo jamaicensis</i>               | 4         |
| Harris Hawk                | <i>Parabuteo unicinctus</i>            | 3         |
| King Vulture               | <i>Sarcorhamphus papa</i>              | 1         |
| Eurasian Eagle Owl         | <i>Bubo bubo</i>                       | 1         |
| Great Horned Owl           | <i>Bubo virginianus</i>                | 3         |
| Common Barn Owl            | <i>Tyto alba</i>                       | 1         |
| Long-Eared Owl             | <i>Asio otus</i>                       | 1         |
| Saw-Whet Owl               | <i>Aegolius acadicus</i>               | 1         |
| Hyacinth Macaw             | <i>Anodorhynchus hyacinthinus</i>      | 1         |
| Green-Winged Macaw         | <i>Ara chloroptera</i>                 | 1         |
| Military Macaw             | <i>Ara militaris</i>                   | 1         |
| African Grey Parrot        | <i>Psittacus erithacus</i>             | 2         |
| Yellow-Naped Amazon Parrot | <i>Amazona ochrocephala</i>            | 4         |
| Sulphur-Crested Cockatoo   | <i>Cacatua galerita galerita</i>       | 1         |
| Rose-Breasted Cockatoo     | <i>Eolophus roseicapillus</i>          | 1         |
| Lesser Flamingo            | <i>Phoeniconaias minor</i>             | 15        |
| Black-Necked Stilt         | <i>Himantopus himantopus mexicanus</i> | 13        |
| Lesser Golden Plover       | <i>Pluvialis dominica</i>              | 1         |
| Spur-Winged Lapwing        | <i>Vanellus spinosus</i>               | 9         |
| Demoiselle Crane           | <i>Anthropoides virgo</i>              | 2         |
| Sandhill Crane             | <i>Grus canadensis</i>                 | 1         |
| Sora                       | <i>Porzana carolina</i>                | 1         |
| Great Hornbill             | <i>Buceros bicornis</i>                | 1         |
| Abyssinian Ground Hornbill | <i>Bucorvus abyssinicus</i>            | 1         |
| Indian Roller              | <i>Coracias benghalensis</i>           | 2         |
| Toco Toucan                | <i>Ramphastos toco</i>                 | 1         |
| Keel-Billed Toucan         | <i>Ramphastos sulfuratus</i>           | 1         |
| Pileated Woodpecker        | <i>Dryocopus pileatus</i>              | 2         |
| Renaud's Ground Cuckoo     | <i>Carpococcyx renauldi</i>            | 2         |
| Tawny Frogmouth            | <i>Podargus strigoides</i>             | 5         |
| Trumpeter Swan             | <i>Cygnus cygnus buccinator</i>        | 20        |
| Red-Breasted Goose         | <i>Branta ruficollis</i>               | 3         |
| Snow Goose                 | <i>Anser caerulescens</i>              | 32        |
| Mandarin Duck              | <i>Aix galericulata</i>                | 11        |
| Pintail                    | <i>Anas acuta</i>                      | 2         |
| Common Shoveler            | <i>Anas clypeata</i>                   | 2         |
| Green-Winged Teal          | <i>Anas crecca</i>                     | 4         |
| Falcated Duck              | <i>Anas falcata</i>                    | 2         |
| Baikal Teal                | <i>Anas formosa</i>                    | 4         |
| Garganey                   | <i>Anas querquedula</i>                | 3         |
| Redhead                    | <i>Aythya americana</i>                | 4         |
| Wandering Whistling Duck   | <i>Dendrocygna arcuata</i>             | 2         |
| Hooded Merganser           | <i>Mergus cucullatus</i>               | 16        |
| Ruddy Shelduck             | <i>Tadorna ferruginea</i>              | 4         |
| Lady Amherst's Pheasant    | <i>Chrysolophus amherstiae</i>         | 2         |
| Golden Pheasant            | <i>Chrysolophus pictus</i>             | 3         |
| Temminck's Tragopan        | <i>Tragopan temminckii</i>             | 4         |
| Bamboo Partridge           | <i>Bambusicola thontocica</i>          | 3         |
| Crested Wood Partridge     | <i>Rollulus roulboul</i>               | 17        |
| Eastern Wild Turkey        | <i>Meleagris gallipavo silvestris</i>  | 1         |
| Red Spur-Fowl              | <i>Galloperdix spadicea</i>            | 1         |
| Red Jungle Fowl            | <i>Gallus gallus</i>                   | 12        |
| Domestic Chicken           | <i>Gallus domesticus</i>               | 27        |
| Black-Naped Fruit Dove     | <i>Ptilinopus melanospila</i>          | 3         |
| Diamond Dove               | <i>Geopelia cuneata</i>                | 1         |
| Green-Winged Dove          | <i>Chalcophaps indica</i>              | 1         |
| Victoria Crowned Pigeon    | <i>Goura victoria</i>                  | 5         |
| Nicobar Pigeon             | <i>Caloenas nicobarica</i>             | 26        |

## ANIMAL COLLECTION

|                                |                                     |    |
|--------------------------------|-------------------------------------|----|
| Pied Imperial Pigeon           | <i>Ducula bicolor</i>               | 14 |
| Bleeding Heart Pigeon          | <i>Gallucolumba luzonica</i>        | 5  |
| Pigeon                         | <i>Columba livia</i>                | 33 |
| Bali Mynah                     | <i>Leucopsar rothschildi</i>        | 11 |
| Golden-Crested Mynah           | <i>Ampeliceps coronatus</i>         | 6  |
| Grosbeak Starling              | <i>Scissirostrum dubium</i>         | 7  |
| Red-Eyed Starling              | <i>Aplonis panayensis</i>           | 10 |
| Racket-Tailed Treepie          | <i>Crypsirina temia</i>             | 2  |
| Blue Jay                       | <i>Cyanocitta cristata</i>          | 1  |
| Hooded Pitta                   | <i>Pitta sordida</i>                | 2  |
| Blue Tit                       | <i>Parus caeruleus</i>              | 2  |
| Yellow-Cheeked Tit             | <i>Parus sibilans</i>               | 1  |
| Red Avadavit                   | <i>Amandava amandava</i>            | 1  |
| Orange-Breasted Avadavit       | <i>Amandava subflava</i>            | 1  |
| Red-Cheeked Cordon Bleu        | <i>Uraeginthus bengalus</i>         | 1  |
| Red-Billed Leiothrix           | <i>Leiothrix lutea</i>              | 51 |
| Black-Throated Laughing Thrush | <i>Garrulax chinensis</i>           | 6  |
| Yellow-Bellied Laughing Thrush | <i>Garrulax galbanus simaoensis</i> | 5  |
| White-Crested Laughing Thrush  | <i>Garrulax leucolophus</i>         | 5  |
| Red-Tailed Laughing Thrush     | <i>Garrulax milnei</i>              | 6  |
| Dhyal Thrush                   | <i>Copsychus saularis</i>           | 3  |
| Common Shama Thrush            | <i>Copsychus malabaricus</i>        | 4  |
| Hermit Thrush                  | <i>Catharus guttatus</i>            | 1  |
| Rose-Breasted Grosbeak         | <i>Pheucticus ludovicianus</i>      | 5  |
| Catbird                        | <i>Dumetella carolinensis</i>       | 1  |
| Black-Naped Oriole             | <i>Oriolus chinensis</i>            | 2  |
| Yellow Warbler                 | <i>Dendroica petechia</i>           | 1  |
| Ovenbird                       | <i>Seiurus aurocapillus</i>         | 1  |
| American Redstart              | <i>Setophaga ruticilla</i>          | 2  |

**Total Specimens** 491

### REPTILE SPECIES LIST 28 species 30 June 2001

| Common Name                | Scientific Name                            | Specimens |
|----------------------------|--|-----------|
| Boa Constrictor            | <i>Boa constrictor</i>                     | 5         |
| Green Tree Python          | <i>Morelia viridis</i>                     | 1         |
| Burmese Python             | <i>Python molurus bivittatus</i>           | 2         |
| Ball Python                | <i>Python regius</i>                       | 2         |
| Timber Rattlesnake         | <i>Crotalus horridus horridus</i>          | 2         |
| Bullsnake                  | <i>Pituophis melanoleucus sayi</i>         | 3         |
| Cornsnake                  | <i>Elaphe guttata</i>                      | 4         |
| Western Fox Snake          | <i>Elaphe vulpina vulpina</i>              | 1         |
| Western Hognose Snake      | <i>Heterodon nasicus</i>                   | 3         |
| California Kingsnake       | <i>Lampropeltis getulus californiae</i>    | 1         |
| Milksnake                  | <i>Lampropeltis triangulum</i>             | 2         |
| Komodo Monitor             | <i>Varanus komodoensis</i>                 | 1         |
| Malayan Water Monitor      | <i>Varanus salvator</i>                    | 1         |
| Savanna Monitor            | <i>Varanus exanthematicus</i>              | 1         |
| Inland Bearded Dragon      | <i>Acanthodactylus vitticeps</i>           | 4         |
| Glass Lizard               | <i>Ophisaurus apodus</i>                   | 2         |
| Prehensile-Tailed Skink    | <i>Corucia zebrata</i>                     | 4         |
| Eastern Blue-Tongued Skink | <i>Tiliqua scincoides scincoides</i>       | 4         |
| Gliding Gecko              | <i>Ptychozoon kuhli</i>                    | 10        |
| Leopard Gecko              | <i>Eublepharis macularius</i>              | 7         |
| Tokay Gecko                | <i>Gekko gekko</i>                         | 4         |
| Green Sea Turtle           | <i>Chelonia mydas</i>                      | 3         |
| Black-Breasted Leaf Turtle | <i>Geomyda spengleri</i>                   | 10        |
| Wood Turtle                | <i>Clemmys insculpta</i>                   | 1         |
| Ouachita Map Turtle        | <i>Graptemys ouachitensis ouachitensis</i> | 4         |
| Eastern Box Turtle         | <i>Terrapene carolina carolina</i>         | 1         |
| Star Tortoise              | <i>Geochelone elegans</i>                  | 5         |
| Asian Brown Tortoise       | <i>Manouria emys phayrei</i>               | 4         |

**Total Specimens** 92

### AMPHIBIAN SPECIES LIST 8 species 30 June 2001

| Common Name                     | Scientific Name                | Specimens |
|---------------------------------|--------------------------------|-----------|
| Oriental Fire-Bellied Toad      | <i>Bombina orientalis</i>      | 13        |
| Blue Poison Dart Frog           | <i>Dendrobates azureus</i>     | 2         |
| Sambava Tomato Frog             | <i>Dyscophus guineti</i>       | 4         |
| Caribbean Mountain Chicken Frog | <i>Leptodactylus fallax</i>    | 4         |
| Grey Tree Frog                  | <i>Hyla versicolor</i>         | 1         |
| White's Tree Frog               | <i>Litoria caerulea</i>        | 2         |
| African Bullfrog                | <i>Ptychocheilus adspersus</i> | 1         |
| Wood Frog                       | <i>Rana sylvatica</i>          | 2         |

**Total Specimens** 29

### FISH SPECIES LIST 169 species 30 June 2001

| Common Name                | Scientific Name                    | Specimens |
|----------------------------|------------------------------------|-----------|
| Blacknose Shark            | <i>Carcharhinus acronotus</i>      | 7         |
| Coral Catshark             | <i>Atelomycterus marmoratus</i>    | 1         |
| Swell Shark                | <i>Cephaloscyllium ventriosum</i>  | 4         |
| Leopard Shark              | <i>Triakis semifasciata</i>        | 2         |
| Horn Shark                 | <i>Heterodontus francisci</i>      | 4         |
| Sandtiger Shark            | <i>Odontaspis taurus</i>           | 4         |
| White Tip Shark            | <i>Triaenodon obesus</i>           | 1         |
| Arabian Carpet Shark       | <i>Chiloscyllium arabicum</i>      | 2         |
| White Spotted Bamboo Shark | <i>Chiloscyllium plagiosum</i>     | 2         |
| Brownbanded Bamboo Shark   | <i>Chiloscyllium punctatum</i>     | 8         |
| Epaulette Shark            | <i>Hemisphyllium ocellatum</i>     | 1         |
| Leopard Shark              | <i>Stegastoma semifasciata</i>     | 2         |
| Snowflake Moray            | <i>Echidna nebulosa</i>            | 1         |
| Zebra Moray                | <i>Gymnomuraena zebra</i>          | 3         |
| Green Moray                | <i>Gymnothorax funebris</i>        | 8         |
| Thornback Ray              | <i>Platyrrhinoidis triseriata</i>  | 2         |
| Southern Stingray          | <i>Dasyatis americana</i>          | 7         |
| Javanese Damsel            | <i>Neoglyphidion oxyodon</i>       | 9         |
| Black Molly                | <i>Poecilia latipinna</i>          | 19        |
| Sphenops Molly             | <i>Poecilia imexicana</i>          | 20        |
| Guppy                      | <i>Poecilia reticulata</i>         | 10        |
| Green Velifera Molly       | <i>Poecilia velifera</i>           | 10        |
| Longjaw Squirrelfish       | <i>Holocentrus ascensionis</i>     | 16        |
| Longspine Squirrelfish     | <i>Holocentrus rufus</i>           | 2         |
| Red Soldierfish            | <i>Myripristis murdjan</i>         | 10        |
| Cardinal Soldierfish       | <i>Plectrypops lima</i>            | 1         |
| Crown Squirrelfish         | <i>Sargocentron diadema</i>        | 1         |
| Samurai Squirrelfish       | <i>Sargocentron itodai</i>         | 13        |
| Dark-Striped Squirrelfish  | <i>Sargocentron prasun</i>         | 16        |
| Bowfin                     | <i>Amia calva</i>                  | 2         |
| Red-Head Rock Cichlid      | <i>Haplochromis pyrocephalus</i>   | 20        |
| Northern Hognose Sucker    | <i>Hypentelium nigricans</i>       | 1         |
| White Sucker               | <i>Catostomus commersoni</i>       | 4         |
| Tinfoil Barb               | <i>Barbus schwanenfeldi</i>        | 5         |
| Giant Danio                | <i>Danio malabaricus</i>           | 3         |
| Black Shark                | <i>Morulinus chrysophekadion</i>   | 1         |
| Rosy Babb                  | <i>Puntius conchunius</i>          | 2         |
| Chinese Algae-Eater        | <i>Gyrinocheilus aymonieri</i>     | 1         |
| Flying Fox Fish            | <i>Epalzeorhynchus kallopterus</i> | 1         |
| Swordtail                  | <i>Xiphophorus helleri</i>         | 10        |
| Platy                      | <i>Xiphophorus maculatus</i>       | 20        |
| Marigold Variatus          | <i>Xiphophorus variatus</i>        | 10        |
| Tarpon                     | <i>Megalops atlanticus</i>         | 2         |
| Milkfish                   | <i>Chanos chanos</i>               | 65        |
| Achilles Tang              | <i>Acanthurus achilles</i>         | 20        |
| Blue Tang                  | <i>Acanthurus coeruleus</i>        | 2         |
| Powder Blue Surgeonfish    | <i>Acanthurus leucosternon</i>     | 15        |

## ANIMAL COLLECTION

|                          |                                     |     |                                 |                                      |             |
|--------------------------|-------------------------------------|-----|---------------------------------|--------------------------------------|-------------|
| Bluebanded Surgeonfish   | <i>Acanthurus lineatus</i>          | 5   | Yellow Perch                    | <i>Perca flavescens</i>              | 14          |
| Orangeband Surgeonfish   | <i>Acanthurus olivaceus</i>         | 2   | Walleye                         | <i>Stizostedion vitreum</i>          | 9           |
| Black Surgeonfish        | <i>Ctenochaetus hawaiiensis</i>     | 2   | Blue Devilfish                  | <i>Assessor macneilli</i>            | 1           |
| Goldring Surgeonfish     | <i>Ctenochaetus strigosus</i>       | 12  | Comet                           | <i>Calloplectops altivelis</i>       | 2           |
| Spotted Unicornfish      | <i>Naso brevirostris</i>            | 12  | Indian Yellow-Tail Angelfish    | <i>Apolemichthys xanthurus</i>       | 2           |
| Bluespine Unicornfish    | <i>Naso unicornis</i>               | 3   | Cherubfish                      | <i>Centropyge argi</i>               | 1           |
| Bignose Unicornfish      | <i>Naso vlamingii</i>               | 10  | Potters Pygmy Angelfish         | <i>Centropyge potteri</i>            | 1           |
| Palette Surgeonfish      | <i>Paracanthurus hepatus</i>        | 19  | Keyhole Angelfish               | <i>Centropyge tibicen</i>            | 3           |
| Yellow Tang              | <i>Zebrasoma flavescens</i>         | 7   | Pearl-Scaled Angel              | <i>Centropyge vrolicki</i>           | 4           |
| Brown Tang               | <i>Zebrasoma scopas</i>             | 4   | Vermiculated Angel              | <i>Chaetodontoplus mesoleucus</i>    | 1           |
| Sailfin Tang             | <i>Zebrasoma veliferum</i>          | 13  | Black-Spot Angelfish            | <i>Genicanthus melanospilos</i>      | 2           |
| Purple Surgeonfish       | <i>Zebrasoma xanthurum</i>          | 2   | Japanese Swallow Angel          | <i>Genicanthus semifasciatus</i>     | 3           |
| Jack/Blue Runner         | <i>Caranax sp.</i>                  | 113 | Passer Angel                    | <i>Holacanthus passer</i>            | 2           |
| Pompano                  | <i>Trachinotus carolinus</i>        | 8   | Blue-Ringed Angelfish           | <i>Pomacanthus annularis</i>         | 1           |
| Rock Bass                | <i>Ambloplites rupestris</i>        | 7   | Blue-girdled Angelfish          | <i>Pomacanthus navarchus</i>         | 1           |
| Pumpkinseed              | <i>Lepomis gibbosus</i>             | 8   | Semicircle Angelfish            | <i>Pomacanthus semicirculatus</i>    | 5           |
| Blue-Gill Sunfish        | <i>Lepomis macrochirus</i>          | 15  | Blue-faced Angelfish            | <i>Pomacanthus xanthometapon</i>     | 1           |
| Smallmouth Bass          | <i>Micropterus dolomieu</i>         | 9   | Sergeant Major                  | <i>Abudefduf saxatius</i>            | 10          |
| Largemouth Bass          | <i>Micropterus salmoides</i>        | 4   | Skunk-striped Anemonefish       | <i>Amphiprion akallopisos</i>        | 1           |
| Black Crappie            | <i>Pomoxis nigroma culatus</i>      | 20  | Yellow-tailed Anemonefish       | <i>Amphiprion clarkii</i>            | 3           |
| Threadfin Butterflyfish  | <i>Chaetodon auriga</i>             | 5   | Saddle Anemonefish              | <i>Amphiprion ephippium</i>          | 1           |
| Raccoon Butterflyfish    | <i>Chaetodon lunula</i>             | 3   | Tomato Anemonefish              | <i>Amphiprion frenatus</i>           | 3           |
| Latticed Butterflyfish   | <i>Chaetodon rafflesii</i>          | 5   | Dusky Anemonefish               | <i>Amphiprion melanopus</i>          | 2           |
| Pacific Double-Saddle    | <i>Chaetodon ulietensis</i>         | 1   | Clown Anemonefish               | <i>Amphiprion ocellaris</i>          | 1           |
| Vagabond Butterflyfish   | <i>Chaetodon vagabundus</i>         | 6   | Percula Clownfish               | <i>Amphiprion percula</i>            | 2           |
| Muller's Coralfish       | <i>Chelmon mulleri</i>              | 1   | False Skunk-striped Anemonefish | <i>Amphiprion perideraion</i>        | 3           |
| Highfin Coralfish        | <i>Coradion altivelis</i>           | 2   | Blue Chromis                    | <i>Chromis cyanea</i>                | 40          |
| Longfin Bannerfish       | <i>Hemirhamphus acuminatus</i>      | 8   | Glasseye Snapper                | <i>Heteropria canthus cruentatus</i> | 14          |
| Texas Cichlid            | <i>Cichlasoma cyanoguttatum</i>     | 4   | Cobia                           | <i>Rachycentron canadum</i>          | 1           |
| Firemouth                | <i>Cichlasoma meeki</i>             | 4   | Scat                            | <i>Scatophagus argus</i>             | 4           |
| Stocky Hawkfish          | <i>Cirrhitus pinnulatus</i>         | 7   | High Hat                        | <i>Equetus acuminatus</i>            | 1           |
| Arc-Eye Hawkfish         | <i>Paracirrhites arcatus</i>        | 2   | Panther Grouper                 | <i>Cromileptes altivelis</i>         | 6           |
| Freckled Hawkfish        | <i>Paracirrhites forsteri</i>       | 5   | Jewfish                         | <i>Epinephelus itajara</i>           | 1           |
| Shiner Perch             | <i>Cymatogaster aggregata</i>       | 11  | Butter Hamlet                   | <i>Hypoplectrus unicolor</i>         | 1           |
| Orbiculate Batfish       | <i>Platax orbicularis</i>           | 5   | Foxface                         | <i>Lo vulpinus</i>                   | 31          |
| Longfin Spadefish        | <i>Platax teira</i>                 | 2   | Coral Rabbitfish                | <i>Siganus coralinus</i>             | 1           |
| Tiger Goby               | <i>Gobiosoma macrondon</i>          | 1   | Scribbled Rabbitfish            | <i>Siganus spinus</i>                | 1           |
| Giant Red Doty           | <i>Labracinus lineatus</i>          | 1   | Shorthorn Sculpin               | <i>Myoxocephalus scorpius</i>        | 1           |
| Red & Green Dottyback    | <i>Pseudochromis novaezelandiae</i> | 1   | Lionfish                        | <i>Pterois volitans</i>              | 1           |
| Porkfish                 | <i>Anisotremus virginicus</i>       | 26  | China Rockfish                  | <i>Sebastes nebulosa</i>             | 1           |
| French Grunt             | <i>Haemulon flavolineatum</i>       | 7   | Orangestriped Triggerfish       | <i>Balistapus undulatus</i>          | 2           |
| Cottonwick               | <i>Haemulon melanurum</i>           | 1   | Gray Triggerfish                | <i>Balistes capriscus</i>            | 1           |
| Bluestriped Grunt        | <i>Haemulon sciurus</i>             | 2   | Queen Trigger                   | <i>Balistes vetula</i>               | 7           |
| Sailfin Sweetlips        | <i>Plectorhinchus albovittatus</i>  | 1   | Clown Triggerfish               | <i>Balistoides conspicillum</i>      | 4           |
| Lined Sweetlips          | <i>Plectorhinchus gaterinoides</i>  | 5   | Pink-tailed Trigger             | <i>Melichthys vidua</i>              | 1           |
| Diana's Hogfish          | <i>Bodianus diana</i>               | 1   | Picassofish                     | <i>Rhinecanthus aculeatus</i>        | 7           |
| Spanish Hogfish          | <i>Bodianus rufus</i>               | 5   | Bluechin Triggerfish            | <i>Xanthichthys auromarginatus</i>   | 6           |
| Red-Breasted Wrasse      | <i>Cheilinus fasciatus</i>          | 1   | Whitespotted Puffer             | <i>Arothron hispidus</i>             | 2           |
| Humphead Wrasse          | <i>Cheilinus undulatus</i>          | 3   | Blackspotted Puffer             | <i>Arothron nigropunctatus</i>       | 1           |
| Yellowtail Coris         | <i>Coris gaimard</i>                | 2   | Fingerprint Sharpnose Puffer    | <i>Canthigaster compressa</i>        | 1           |
| Harlequin Tuskfish       | <i>Lienardella fuscata</i>          | 2   | Whitespotted Sharpnose Puffer   | <i>Canthigaster janthinoptera</i>    | 4           |
| Twotone Wrasse           | <i>Thalassoma amblycephalum</i>     | 1   | Spotted Sharpnose Puffer        | <i>Canthigaster solandri</i>         | 2           |
| Sixbar Wrasse            | <i>Thalassoma hardwickii</i>        | 1   | Valentini's Sharpnose Puffer    | <i>Canthigaster valentini</i>        | 4           |
| Jansen's Wrasse          | <i>Thalassoma janseni</i>           | 2   | Balloon Fish/Spiny Puffer       | <i>Diodon holocanthus</i>            | 5           |
| Lyretail Wrasse          | <i>Thalassoma lunare</i>            | 1   | Porcupinefish                   | <i>Diodon hystrix</i>                | 3           |
| Surge Wrasse             | <i>Thalassoma purpuraceum</i>       | 1   | Northern Pike                   | <i>Esox lucius</i>                   | 2           |
| Five-Stripe Surge Wrasse | <i>Thalassoma quinquevittatum</i>   | 8   | Brook Trout                     | <i>Salvelinus fontinalis</i>         | 18          |
| Gray Snapper             | <i>Lutjanus griseus</i>             | 19  | Purple Striped Catfish          | <i>Mystus vittatus</i>               | 5           |
| Blue-Lined Snapper       | <i>Lutjanus kasmira</i>             | 5   | Brown Bullhead                  | <i>Ictalurus nebulosus</i>           | 4           |
| Blue-Lined Sea Bream     | <i>Symphoricarichthys spilurus</i>  | 3   | Black Bullhead                  | <i>Ictalurus melas</i>               | 1           |
| Mono                     | <i>Monodactylus argenteus</i>       | 9   |                                 |                                      |             |
| Gourami                  | <i>Osphroneurus goramy</i>          | 1   |                                 |                                      |             |
|                          |                                     |     | <b>Total Specimens</b>          |                                      | <b>1089</b> |

## ANIMAL COLLECTION

### INVERTEBRATE SPECIES LIST 50 species 30 June 2001

| Common Name                  | Scientific Name                          | Specimens   |
|------------------------------|--|-------------|
| Orange-Kneed Tarantula       | <i>Brachypelma smithi</i>                | 17          |
| Chilean Rose Tarantula       | <i>Grammostola cala</i>                  | 1           |
| Common Chilean Tarantula     | <i>Grammostola spatulatus</i>            | 3           |
| Giant African Millipede      | <i>Spirostreptus gigantis</i>            | 19          |
| Darkling Beetle              | <i>Eleodes sp.</i>                       | 4           |
| Madagascar Hissing Cockroach | <i>Gromphadorhina portentosa</i>         | 6           |
| Feather Duster Worm          | <i>Eudistylia polymorpha</i>             | 8           |
| Red Rock Crab                | <i>Cancer productus</i>                  | 6           |
| Decorator Crab               | <i>Oregonia gracius</i>                  | 1           |
| Pink Shrimp                  | <i>Penaeus duorarum</i>                  | 20          |
| Red Turban                   | <i>Astraea gibberosa</i>                 | 7           |
| Moon Snail                   | <i>Polinices lewisii</i>                 | 5           |
| Black Top Snail              | <i>Tegula funebralis</i>                 | 2           |
| Brown Top Snail              | <i>Tegula pulligo</i>                    | 2           |
| Giant Gumboot Chiton         | <i>Cryptochiton stelleri</i>             | 12          |
| Mossy Chiton                 | <i>Mopalia muscosa</i>                   | 1           |
| Black Leather Chiton         | <i>Katharina tunicata</i>                | 2           |
| Lined Chiton                 | <i>Tonicella lineata</i>                 | 4           |
| Rock Scallop                 | <i>Hinnites giganteus</i>                | 4           |
| European Cuttlefish          | <i>Sepia officinalis</i>                 | 10          |
| Orange Sea Pen               | <i>Ptilosarcus gurneyi</i>               | 5           |
| Burrowing Anemone            | <i>Anthopleura artemisia</i>             | 3           |
| Aggregating Anemone          | <i>Anthopleura elegantissima</i>         | 96          |
| Green Sea Anemone            | <i>Anthopleura sp.</i>                   | 2           |
| Green Anemone                | <i>Anthopleura xanthogrammica</i>        | 114         |
| Crimson Anemone              | <i>Cribinopsis fernaldi</i>              | 10          |
| Brooding Anemone             | <i>Epiactis prolifera</i>                | 5           |
| Swimming Anemone             | <i>Stomphia didemon</i>                  | 2           |
| Columbis Tealia              | <i>Urticina columbiana</i>               | 29          |
| Beaded Anemone               | <i>Urticina lofoensis</i>                | 85          |
| Fish-Eating Tealia           | <i>Urticina piscivora</i>                | 67          |
| Painted Tealia               | <i>Urticina crassicornis</i>             | 11          |
| Wavy Giant Anemone           | <i>Heteractis crispa</i>                 | 6           |
| Giant Fingered Anemone       | <i>Heteractis magnifica</i>              | 9           |
| Giant Plumed Anemone         | <i>Metridium giganteum</i>               | 57          |
| Powder-Puff Anemone          | <i>Metridium senile</i>                  | 61          |
| Green Sea Urchin             | <i>Strongylocentrotus droebachiensis</i> | 6           |
| Giant Red Sea Urchin         | <i>Strongylocentrotus franciscanus</i>   | 10          |
| Purple Urchin                | <i>Strongylocentrotus purpuratus</i>     | 14          |
| Spiny Brittle Sea Star       | <i>Ophiothrix spiculata</i>              | 20          |
| Rose Star                    | <i>Crossaster papposus</i>               | 2           |
| Striped Sunstar              | <i>Solaster stimpsoni</i>                | 17          |
| Bat Sea Star                 | <i>Asteria miniata</i>                   | 92          |
| Leather Sea Star             | <i>Dermasterias imbricata</i>            | 50          |
| Blood Star                   | <i>Henricia leviuscula</i>               | 42          |
| Brown Brittle Sea Star       | <i>Ophiopteris papillosa</i>             | 20          |
| Rainbow Star                 | <i>Orthasterias koehleri</i>             | 24          |
| Short-Spined Sea Star        | <i>Pisaster brevispinus</i>              | 24          |
| Common Sea Star              | <i>Pisaster ochraceus</i>                | 43          |
| Vermillion Star              | <i>Mediaster aequalis</i>                | 4           |
| <b>Total Specimens</b>       |  | <b>1064</b> |

### BUTTERFLY SPECIES LIST 28 species Summer 2001

| Common Name     | Scientific Name             |
|-----------------|-----------------------------|
| Luna Moth       | <i>Actias luna</i>          |
| Polyphemus Moth | <i>Antheraea polyphemus</i> |
| Io Moth         | <i>Automeris io</i>         |
| Cecropia Moth   | <i>Hyalophora cecropia</i>  |
| Cynthia Moth    | <i>Samia cynthia</i>        |

|                             |                                 |
|-----------------------------|---------------------------------|
| Milbert's Tortoise Shell    | <i>Aglais milberti</i>          |
| Gulf Fritillary             | <i>Agraulis vanillae</i>        |
| Goatweed                    | <i>Anaea andria</i>             |
| White Peacock               | <i>Anartia jatrophae</i>        |
| Great Southern White        | <i>Ascia monuste</i>            |
| Pipevine Swallowtail        | <i>Battus philenor</i>          |
| Polydamas Swallowtail       | <i>Battus polydamas</i>         |
| Meadow Fritillary           | <i>Clossiana bellona</i>        |
| Clouded Sulphur             | <i>Colias philodice</i>         |
| Queen                       | <i>Danaus gilippus</i>          |
| Monarch                     | <i>Danaus plexippus</i>         |
| Julia                       | <i>Dryas julia</i>              |
| Variigated Fritillary       | <i>Euptoieta claudia</i>        |
| Sleepy Orange               | <i>Eurema nicippe</i>           |
| Zebra Swallowtail           | <i>Eurytides marcellus</i>      |
| Zebra Longwing              | <i>Heliconius charitonia</i>    |
| Buckeye                     | <i>Junonia coenia</i>           |
| Viceroy                     | <i>Limenitis archippus</i>      |
| Red-Spotted Purple          | <i>Limenitis astyanax</i>       |
| Mourning Cloak              | <i>Nymphalis antiopa</i>        |
| Giant Swallowtail           | <i>Papilio cressphontes</i>     |
| Tiger Swallowtail           | <i>Papilio glaucus</i>          |
| Black (Eastern) Swallowtail | <i>Papilio polyxenes</i>        |
| Spicebrush Swallowtail      | <i>Papilio troilus</i>          |
| Orange-Barred Sulphur       | <i>Phoebis philea</i>           |
| Cloudless Sulphur           | <i>Phoebis sennae</i>           |
| Cabbage White               | <i>Pieris rapae</i>             |
| Comma                       | <i>Polygona comma</i>           |
| Question Mark               | <i>Polygona interrogationis</i> |
| Great Spangled Fritillary   | <i>Speyeria cybele</i>          |
| Red Admiral                 | <i>Vanessa atlanta</i>          |

### TOTAL SPECIES at the Mammalia Zoo

30 June 2001

| Class                           | No. of Species | No. of Specimens |
|---------------------------------|----------------|------------------|
| Mammals                         | 57             | 408              |
| Birds                           | 89             | 491              |
| Reptiles                        | 28             | 92               |
| Amphibians                      | 8              | 29               |
| Fish                            | 169            | 1089             |
| Invertebrates                   | 50             | 1064             |
| Butterflies/moths (summer only) | 36             | variable         |
| <b>TOTAL (w/o butterflies)</b>  | <b>401</b>     | <b>3173</b>      |
| <b>TOTAL (w/ butterflies)</b>   | <b>438</b>     |                  |

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Schiltz, Thomas  
Schlegel, Catherine  
Schley, Patricia  
Schoeberl, Beth Jo  
Schoeberl, DeeDee  
Schwichtenberg, Joel  
Sewich, Vicki  
Silvester, David  
Smith, Pascale  
Snyder, Sharon  
Sorensen, Melanie  
Speiker, Julie  
Spickelmier, Grant  
Spier, Susan  
Stanek, Leah  
Stanfield, Robert  
Steinbach, Maria  
Stender, Douglas  
Streater, James  
Sundstrom, Shelby  
Swanson, Drue  
Swengel, Fred  
Taylor, Carol  
Taylor, Ross  
Thera, Jennifer  
Thieding, Matthew  
Thom, Kathleen  
Thomas, Kimberly  
Thompson, Judy  
Tilson, Ronald  
Townsend, Chris  
Treangen, Dean  
Treichsel, Laura  
Van Uden, Doreen  
Vorwerk, Larry  
Wacker, Mark  
Wahlstrom, Karen  
Wallin, Jill  
Warg, Jennifer  
Wegscheid, Timothy  
Weisenburger, Kenneth  
Weitz, Teri  
Werness, Lynne  
Wessel, Jon  
Whitcomb, Ryan  
Wier, Kevin  
Willis, Kelly  
Willis, Kevin  
Wold, Brent  
Wuchko, Pamela

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# FINANCIALS

## Minnesota Zoological Garden Sources and Uses of Operating Revenues for Fiscal Year Ending June 30, 2001. (unaudited)

|  |                       |
|--|-----------------------|
| <b>OPERATING REVENUE</b>   |                       |
| Admission Fees .....   | \$ 3,274,430          |
| Net Sales .....  | 1,551,731             |
| Memberships .....  | 1,684,445             |
| Other Income .....   | <u>3,077,199</u>      |
| <b>TOTAL REVENUE</b> .....   | <b>\$ 9,587,805</b>   |
| <br>   |                       |
| <b>LESS COST OF GOODS SOLD</b> .....                                   | <b>\$ 599,846</b>     |
| <br>   |                       |
| <b>GROSS MARGIN</b> .....  | <b>\$ 8,987,959</b>   |
| <br>   |                       |
| <b>PROGRAM EXPENDITURES</b> .....                                      | <b>\$ 16,636,817</b>  |
| <br>   |                       |
| <b>OPERATING LOSS</b> .....  | <b>\$ (7,648,858)</b> |
| <br>   |                       |
| <b>NONOPERATING REVENUES</b>   |                       |
| Grants .....   | 7,382,929             |
| Investment Income .....  | <u>81,596</u>         |
| <b>NET NONOPERATING REVENUES</b> .....                                 | <b>\$ 7,464,525</b>   |
| <b>DEFICIT OF REVENUES AND APPROPRIATIONS UNDER EXPENDITURES</b> ..... | <b>\$ (184,333)</b>   |

NOTE: This information is subject to audit by the State of Minnesota Legislative Auditor.  
A complete financial report is presented in the State of Minnesota's annual report.