

A close-up, black and white photograph of a giant panda's face, focusing on its eyes, nose, and mouth. The panda's fur is white with characteristic black patches around its eyes and on its ears. The background is dark, making the panda's face the central focus.

**saving and protecting species
at home & abroad**



2013 ANNUAL REPORT

message from the Toronto Zoo Chair and CEO

With the world losing an alarming amount of species each year, the role of accredited zoos has never been more critical.

The Toronto Zoo, one of the largest facilities of its kind in the world, has progressively evolved since its doors were first opened in 1974. It is situated at the doorstep of the Rouge National Urban Park, Canada's newest park. While we are fortunate to have more than 5,000 animals representing more than 450 species and drew more than 1.46 million visitors in 2013, the Zoo's priorities have increasingly broadened beyond its borders and focused on saving and protecting species through wildlife care, research and education throughout Canada and the world.

an animal ark for the world

When the Zoo opened in 1974, the planet was losing one or two species a year. Today, the global extinction rate has soared to three species lost each day. In an effort to stem the effects of habitat destruction and other impacts, the Toronto Zoo collaborates with government, agencies, universities and animal experts to reduce the further loss of wildlife species. The Zoo also has a captive breeding program and reintroduction program. To date, the offspring of a variety of rare and endangered species including the black-footed ferret, Vancouver Island marmot, trumpeter swan, Puerto Rican crested toad and native Ontario turtles have been bred in controlled settings and released back into their natural habitats. The Zoo also assists scientists who are investigating the causes of population declines.

pandas in focus

In 2013, the Toronto Zoo welcomed Canada's only giant pandas, Er Shun and Da Mao, as part of a giant panda conservation breeding program with China. This unique 10-year agreement shared between the Toronto Zoo and Calgary

Zoo, will enable Canadians to experience one of the worlds' most critically endangered species up close. The Toronto Zoo is extremely proud to be contributing critical scientific research in hopes of ensuring the survival of this incredible species.

spreading the message

The Toronto Zoo undertakes many conservation and research projects locally, nationally and globally, for the benefit of threatened and endangered species. The projects are also a great way for the public to learn about species survival, reproduction and habitat preservation. That is why we are here – to help make people care about the fragility of the species on our planet. When visitors see these dynamic, real life creatures, most of whom have been rescued from desperate circumstances, the message hits home. Extinction is real. We want our visitors to leave the Zoo saying “that spider, or that rhino, or that gorilla was awesome. I want to get involved in the effort to save them.”

in great company

We continue to be very grateful to our visitors and especially the Toronto Zoo members and our hundreds of volunteers, who enable us to continue to do this important work. Our more than 500 volunteers contribute thousands of hours of their time to educate, spark curiosity and engage our visitors. It is the enthusiasm, passion and commitment of our staff, volunteers, members, sponsors and partners that ensure the Toronto Zoo continues to be a leader in saving and protecting species at home and abroad.

Mr. Joe Torzsok, Chair

Mr. John Tracogna, CEO

5,000+
animals

450+
species

1.46 million
visitors to the Toronto Zoo in 2013





The main threat to the magnificent, at-risk polar bear is climate change. The Zoo, along with Polar Bear International, is actively involved in efforts to reduce greenhouse gas emissions and, out of 251 candidates, was voted into the top six organizations to receive the acclaimed Shell Fueling Change™ funding. The grant will support Polar Bear educational, breeding, nutritional and veterinary programs and research.

saving and protecting
polar bears

giant pandas giant year

After a 28-year absence, giant pandas returned to the Toronto Zoo in 2013. The arrival of a breeding pair of giant pandas began as a plan between Prime Minister Stephen Harper and Hu Kintao, President of China, and involved over 10 years of planning by the Chinese and Canadian governments. A female panda, Er Shun, from Chongqing Zoo and a male panda, Da Mao, from Chengdu Research Base were chosen to come to the Toronto Zoo for five years, as part of a long-term conservation partnership.

the pandas have landed!

Er Shun and Da Mao's arrival on March 25, 2013 was a historic and memorable morning for the Toronto Zoo, the City of Toronto and many others around the world. Over 50 Canadian media outlets and millions of onlookers worldwide awaited the landing of two giant pandas at Pearson International Airport. Travelling in a specially chartered MD-11F FedEx Panda Express aircraft, both pandas received first class treatment throughout their trip, which included 200 kg of apples and 200 kg of bamboo. They were accompanied by Toronto Zoo veterinarian Simon Hollamby to ensure their 18 hour flight spanning over 8,000 miles from Chengdu, China went smoothly. Upon landing, the giant pandas were met by Prime Minister Stephen Harper, who signed for them on the FedEx tarmac. A welcome ceremony emphasized this conservation partnership with speeches by Prime Minister Stephen Harper, Toronto Zoo CEO John Tracogna, FedEx President Lisa Lison, and Ambassador Zhang Junsai of the Embassy of the People's Republic of China. A 30-day quarantine followed, while Chinese giant

panda experts, Toronto Zoo keepers and veterinary staff monitored their overall health and behaviour, after which, both pandas were moved into their new habitat.

learning about giant pandas

For visitors, the Zoo's giant panda journey begins with the award-winning Panda Interpretive Centre. Here visitors are encouraged to learn about giant panda conservation, panda habitats and their diets through interactive touch screens and audiovisual displays. Er Shun and Da Mao's new state-of-the-art home in the Zoo's Eurasia section includes two separate habitats, as giant pandas are naturally solitary animals in the wild. Each habitat has enrichment elements such as climbing structures, plantings, a pool and a climate-controlled indoor area.

giant pandas meet their fans

Er Shun and Da Mao made their official debut on May 16, 2013, with a special VIP ceremony and media event. The next day, over 10,000 excited Zoo members got a sneak preview of the Xie Shou Giant Panda Experience, while over 15,000 visitors attended the grand opening on Saturday, May 18, 2013. The excitement continued all weekend with a record breaking total of more than 56,000 visitors.

For the next five years, our pandas will continue to symbolize the partnership between Canada and China, and raise awareness for conservation efforts for this critically endangered species. With only 1,600 giant pandas left in the wild and 300 in captivity, the Toronto Zoo hopes to play a role in the revival of this rare and enchanting species through breeding and research.

56,000

Zoo visitors on giant panda opening weekend, a new record for the Zoo!

13%

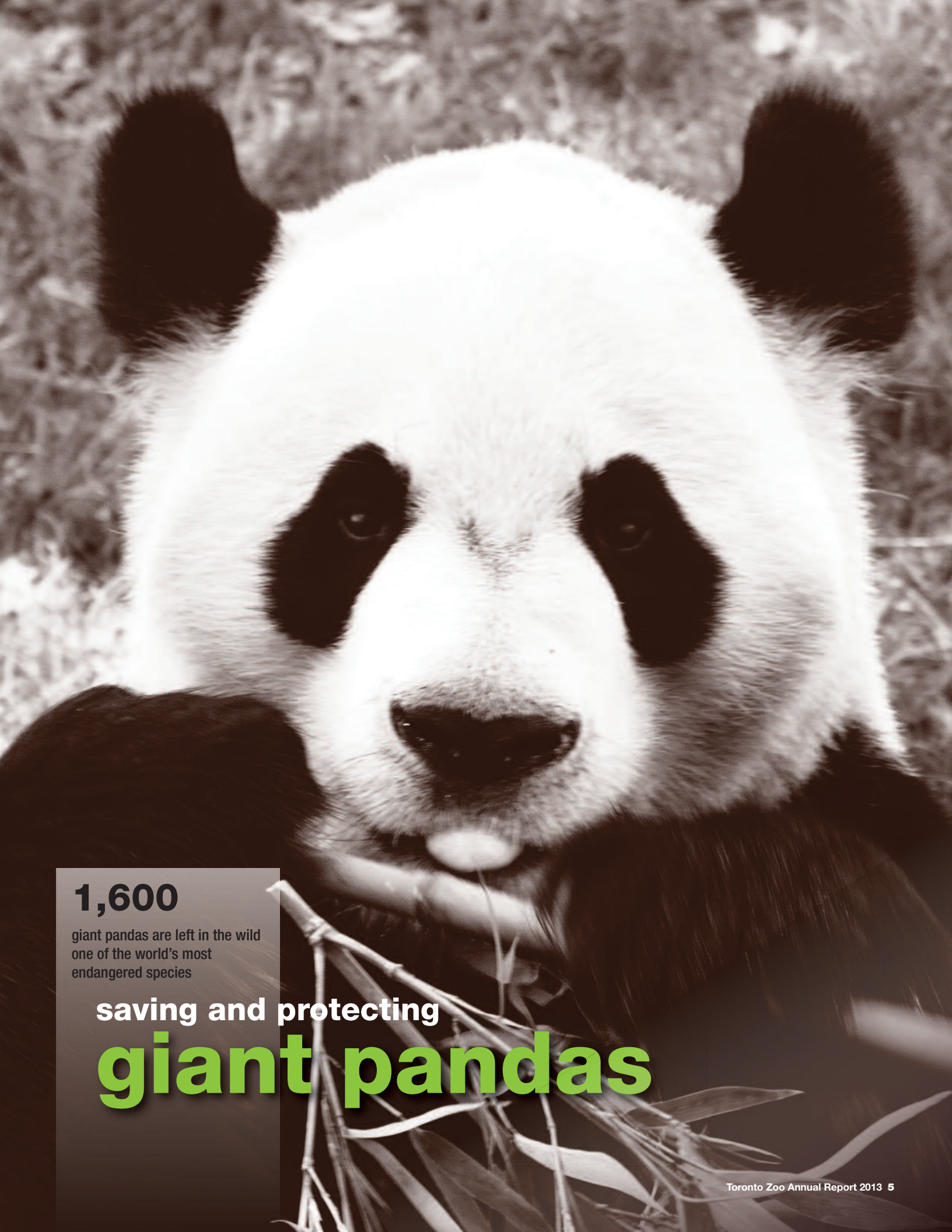
increase in annual attendance, the highest level in 18 years!

Zoo's Panda Interpretive Centre wins 2013 HOW International Design Award of Merit

for signage, way-finding and environmental graphics.

The centre's innovative conservation and educational features encourage adults and children alike to explore, through a variety of graphics and model displays, interactive features, multi-media games and audio visual presentations.





1,600

giant pandas are left in the wild
one of the world's most
endangered species

saving and protecting

giant pandas



promoting the Zoo and giant pandas year-round

The Marketing, Communications and Partnerships Division had an exceptionally busy year that started out with incredible international media coverage of the arrival of the giant pandas and continued throughout the entire year.

giant panda highlights

- new signs on Highway 401 and the Don Valley Parkway to promote giant pandas and the Toronto Zoo
- 34 giant panda mascot outreach events
- giant panda VIP events including a gala hosted by the Chinese Consul General with guests including Premier Kathleen Wynne, Minister of Finance Charles Sousa, Minister of Tourism and Minister Responsible for Pan/Parapan American Games Michael Chan and Michael Coteau, Minister of Citizenship and Immigration
- another VIP event with over 300 invited guests and dignitaries from the Government of Canada, Government of Ontario, City of Toronto and representatives from China were on hand for the opening of the Giant Panda Experience on May 16, 2013
- *Rick Mercer Report* features Toronto Zoo and giant pandas in October watched by more than 2.7 million viewers
- giant panda featured as one of the top Newsmakers of 2013 by *Maclean's* magazine
- giant pandas featured as part of Tourism Toronto's outdoor advertising and radio campaign outside of the Greater Toronto Area, and into the border communities in the United States

sponsors and partners

Without the generous support of our partners, the Giant Panda Experience would not be possible. Thank you to FedEx Express Canada, Mandarin Restaurants, Government of Ontario, *Toronto Star* newspaper,

the Chinese Cultural Centre of Toronto, Coca-Cola Ltd. and Pelco/STS.

Zoo highlights

- Toronto Zoo featured in *The Amazing Race Canada*, watched by more than 3.6 million people
- advertising campaign to encourage visitors to come to the Zoo in the fall and winter, consisting of billboards and a new interactive winter map on the Zoo's website, resulted in 600,000 unique visits to our website
- Zoo Facebook reached 40,000 fans in 2013, an increase of 87% from 2012

Black and White Gala

Presented by Manulife Financial and hosted by Toronto's newest five-star hotel, the Shangri-La Toronto, 250 guests enjoyed an exclusive VIP experience hosted by TELUS, including a cocktail reception and a memorable dinner. Highlights of the evening included a performance by vocalist Tina Li, an exquisite dragon dance and exceptional entertainment by performer Sean Jones. The Master of Ceremonies for our festivities was Pauline Chan, a *CTV News* health reporter and anchor.

Seafood for Thought™ presented by Scotiabank

Almost 75% of the world's fisheries are fished to capacity, or overfished, with many species being faced with extinction. The Toronto Zoo works hard to raise awareness about the importance of buying sustainable fish and seafood products to ensure a future with an abundant and healthy aquatic ecosystem. The Toronto Zoo's 5th Annual Seafood For Thought™ fundraiser and sustainable seafood event, presented by Scotiabank, was an exclusive and elegant event designed to help educate guests on choosing sustainable seafood, while raising funds for key Zoo conservation projects.

110+ group events


resulted in a record 19,000 visitors and \$700,000

\$4 million ad value

in national media coverage of the Zoo and our pandas

giant pandas

on the cover of November *Reader's Digest Canada*, read by more than 5 million Canadians



saving and protecting
**Puerto Rican
crested toads**

Since 2004 the Toronto Zoo has bred Puerto Rican crested toads, a critically endangered species previously thought to be extinct. The breeding program, which also involves other zoos, has released over 125,000 tadpoles into the wild. A management program for the care and breeding of the Puerto Rican crested toad was also developed at the Toronto Zoo, and is in use in over 20 zoos.



learning for life

The Toronto Zoo is committed to educating the public about the urgent need to save species and protect world biodiversity. By encouraging an appreciation and interest in the natural world, while highlighting the plight of endangered species, the Zoo inspires students of all ages to be part of the global conservation effort.

school tours & workshops

- 132,187 students visited the Zoo in 2013 as part of a school group, a 5.2% increase over 2012 school field trips
- 10,400 students attended our half-day, curriculum-based elementary level workshops in 2013, which demonstrates continued interest and demand in our, staff-led curriculum programs
- new 45-minute giant panda presentations in schools launched in fall of 2013, with 724 participants

helping teachers

- 3,082 teachers attended enhanced Teachers Days, designed to help teachers make the most of Zoo school trips
- professional development sessions to help 207 science teachers and 63 student teachers understand the importance of biodiversity, and the critical role the Zoo plays in conservation
- promoted educational opportunities for teachers and students through the redesigned School Programs brochures, Attractions Ontario Field Trip Planner for Educators, and our monthly e-newsletter
- six education student interns served with the Education Branch and helped develop teacher resources, panda presentations, and new Parent & Tot programs

helping students

- Zoo School, the Zoo's grade 11 biology Education-Ministry-recognized credit course, continued to be enrolled at capacity with an 18-month waiting list
- Operation Conservation, a two-day immer-

sion program designed for at-risk students in the Jane-Finch and Malvern communities, served 215 students with funding from the Tippet Foundation and Geoffrey H. Wood Foundation

- 633 students from disadvantaged Toronto communities attended four hour curriculum-based workshops at the Zoo, thanks to an anonymous donor
- learning opportunities for families with financial limitations were expanded through the Model Schools Passport Program, which allowed students and their families the chance to experience the Zoo and share an enriching learning opportunity together. In 2013 a total of 1,300 children and 1,513 adults participated

educational programs for all ages

The Toronto Zoo provides the perfect setting for individuals of all ages to comfortably explore plant and animal life from around the world. A variety of public programs including: Parent & Tot, Critter Crew, Zoo Crew, EnviroRangers, plus family and adult focused programming are offered throughout the year

- Bush Camp continued to grow, with an increase in attendance of 8.8% over 2012. The Bush Camp overnight program includes a variety of interactive educational activities, tours, behind-the-scenes opportunities, and roasting marshmallows over the campfire
- Youth Badge Programs reached over 500 scouts, guides, brownies and cubs, who earned environmental badges at a half day program at the Zoo
- Adult Valentine's Day dinner and program focusing on animal courtship had strong participation in 2013 with 92 participants
- Panda programs for all ages were wildly popular and included "Breakfast with the Pandas", an evening "Panda Lantern Parade" and an overnight family "Panda Pyjama Party"

10,400+

elementary students attended curriculum-based workshops at the Zoo

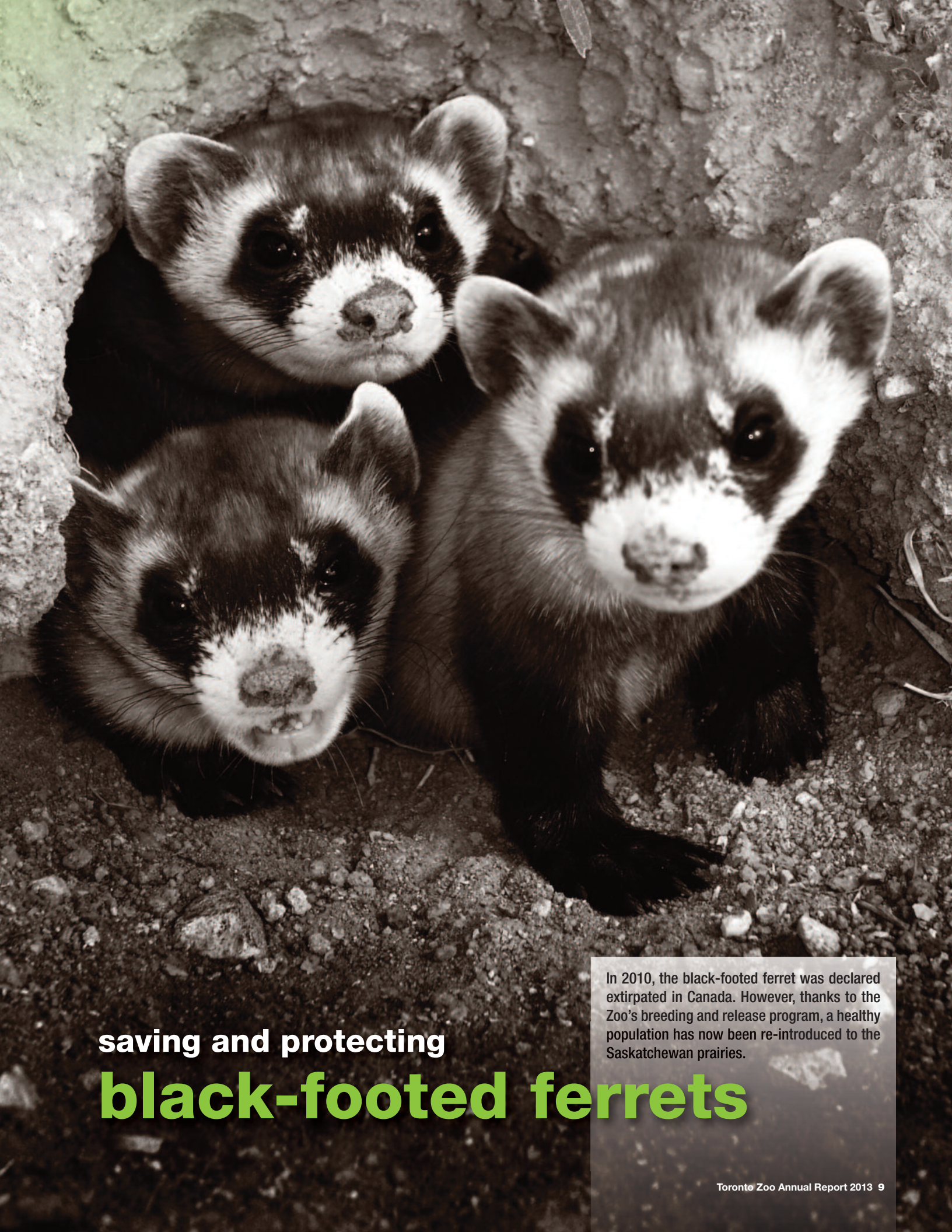
77,297

people reached through Zoo presentations, workshops and events

5%

increase in Zoo Camp attendance, Zoo Camp voted best GTA day camp by Toronto4Kids

Zoo's Grade 11 University Preparation course enrolled to capacity third year in a row



saving and protecting

black-footed ferrets

In 2010, the black-footed ferret was declared extirpated in Canada. However, thanks to the Zoo's breeding and release program, a healthy population has now been re-introduced to the Saskatchewan prairies.



leaders in conservation

Every day, the Toronto Zoo pushes forward with new and sustained efforts to protect and nurture the wild diversity of our planet. From breed and release programs, to fundraising for endangered species to setting examples with sustainable onsite initiatives, the scope of the Zoo's commitment to conservation knows no bounds.

encouraging participation

- Toronto Zoo's Great Lakes Outreach Program works in over 700 classrooms, educating more than 20,000 students and the public about the importance of the Great Lakes and the species that rely on them. Participants are encouraged to "Keep Our Great Lakes Great!"
- Students in the Zoo's Aqua-Links Program, which links students in Ontario with students in Uganda to discuss water conservation, released 200 Atlantic baby salmon that had been reared in classrooms, into the wild
- The Zoo presented a special award to Matthew Clowater, an elementary school student, for his initiative in raising funds for the highly endangered axolotl, a Mexican salamander
- The Zoo's internal Polar Bear Interest Group hosted the first-ever Winterfest event at the Polar Bear Exhibit, to celebrate International Polar Bear Day, and to raise awareness and support for polar bears
- Bundle Up for Polar Bears invited schools, businesses, families, and individuals to "bundle up" and turn down the thermostat by two degrees Celsius between February 25 and March 1, with 137 participants saving 258.06 kg (569 lbs) of CO₂

partners in conservation

- In 2013, the Zoo's new partnership, the Magnetawan First Nation Species at Risk Program, was formed to protect critical habitats of species at risk. Magnetawan

First Nation (MFN) are leaders in Blanding's turtle conservation

- Toronto Zoo partnered with key conservation organizations for Ontario BioBlitz: Rouge Park 2013, which brought scientists and the public together to try to identify as many plant, animal, and fungal species as possible over a 24-hour period
- In 2013, 13 Venomous and Dangerous Reptile Training Workshops provided techniques for understanding and avoiding snake bites, first aid and treatment options for Canadian Forces, the Poison Control Centre, Animal Services and hospital workers
- The Turtle Island Conservation partnership between the Zoo and First Nations communities, which recognizes the significance of traditional teachings to conservation initiatives, reached 305 people through our partnerships for 2013

caring for wetlands

- Adopt-a-Pond outreach events and presentations reached 55,975 people with our message of wetland conservation
- Ontario Turtle Tally is a community science program that inspires people to care for local wetland habitats and turtle populations. In 2013, 673 turtle sightings were added to our online database
- Canadian Wetland Guardians Registry links communities across Canada, and provides a forum in which people can share innovative wetland conservation methods and build on others' experiences. 31 stewards participated in 2013
- FrogWatch Ontario is a citizen science program that engages individuals and families in wetland stewardship, by providing them with a fun way to learn about the diversity of amphibians and the significance of wetland habitats. 282 people participated in 2013

1,284 trees

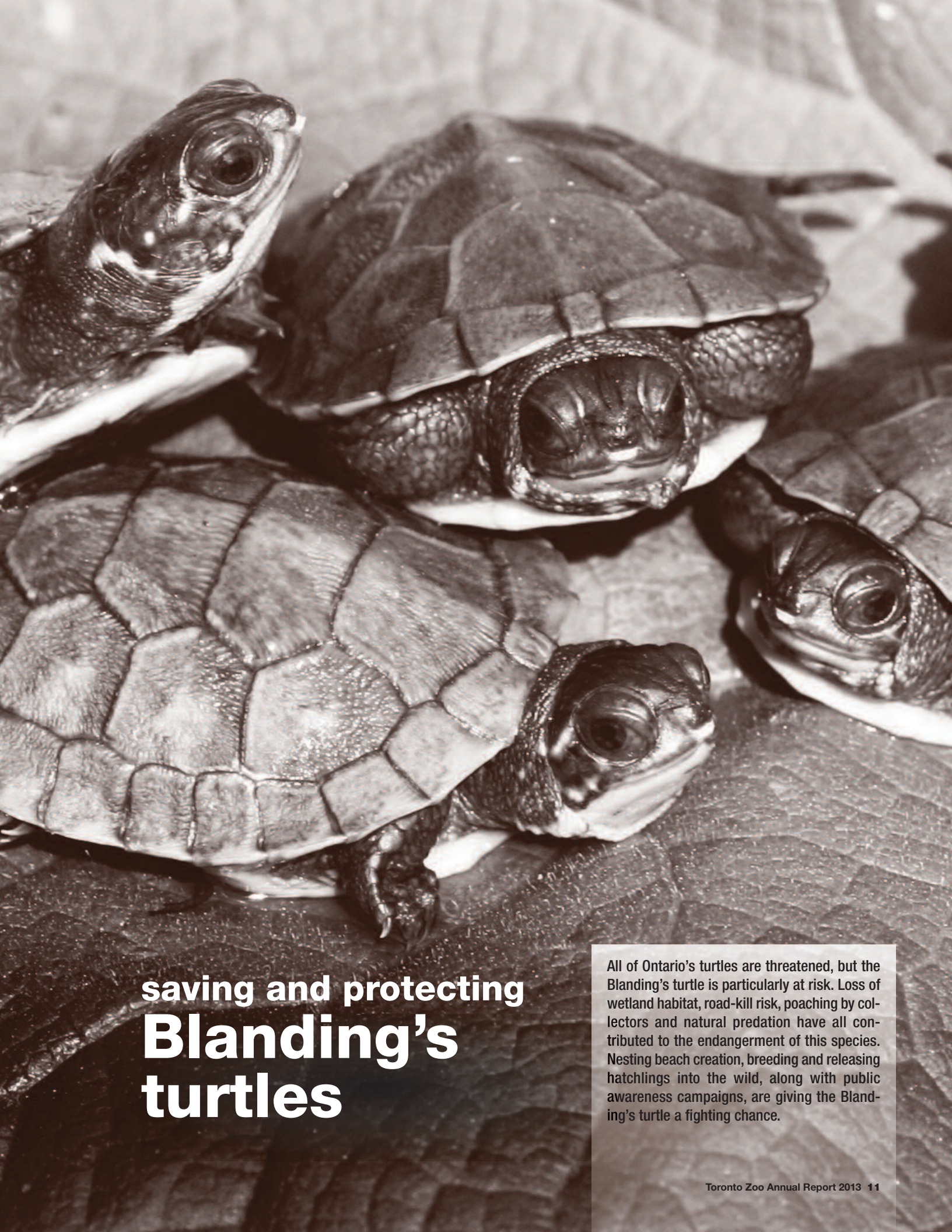
were planted by Toronto Zoo Staff, with the help of Symcor, to decrease CO₂ levels

1+1 = 3

Polar bear cub Humphrey's parents were both rescued as young wild orphans

less than 700 g

Humphrey's weight at birth



saving and protecting
Blanding's
turtles

All of Ontario's turtles are threatened, but the Blanding's turtle is particularly at risk. Loss of wetland habitat, road-kill risk, poaching by collectors and natural predation have all contributed to the endangerment of this species. Nesting beach creation, breeding and releasing hatchlings into the wild, along with public awareness campaigns, are giving the Blanding's turtle a fighting chance.

working together

The Volunteer Services Unit recruits, trains and co-ordinates a large group of volunteers who help to support the objectives of the Zoo, providing an educational experience for Zoo visitors, inspiring people to live in sustainable ways that promote the well-being of our natural world.

the volunteer spirit grows

In 2013, due to a successful recruitment campaign associated with the arrival of the giant pandas, 250 new volunteers were recruited and trained bringing our volunteer numbers to 516. These volunteers raise the public's awareness of and involvement in conservation, interpret the zoogeographic and ecological relationships of the animal and plant kingdoms, and most importantly, enhance the experience of Zoo visitors. Our newest categories of volunteer, Panda Ambassador Interpretive and Panda Ambassador Special Event Volunteer, contribute by providing interpretation and way-finding support on-site and assisting with off-site special events.

valuable animal data gained from volunteer observations

Volunteers observed numerous animals this year, lending their analytical skills to important data collection on a variety of species. The Volunteer Coordinator is an active member of the Enrichment Task Force, and organizes volunteer support for many of the enrichment studies. As part of this initiative, volunteers were engaged in observations of the following animals: pygmy hippopotamus, Matschie's tree kangaroo, Lake Malawi cichlids, lemurs, white rhinoceros, tahr, warthog, spotted-necked otter, polar bear, cygnet, river otter, Indian rhinoceros, giraffe and red panda.

student volunteers assist with summer camps

Our 34 student volunteers not only helped the Zoo last summer; they also gained valuable

knowledge and experience that will last a lifetime. After the Zoo Ambassador student volunteers completed their training in June, they assisted staff with day camps throughout the summer.

volunteers mentor BioCampers during summer Zoo Camp

Again this past summer, as part of the leadership-themed camp weeks, BioCampers (ages 13-16) partnered with year-round volunteers at six interpretive stations/carts. Campers had the opportunity to expand their knowledge of the area and participate in on-site, frontline interpretive opportunities with visitors.

bears at the library

A unique outreach program was developed by Toronto Zoo staff, and delivered by volunteers at three Toronto Public Libraries in May. The "A Wild Bear Picnic" program was designed to appeal to children of all ages in learning about a variety of bears, such as the polar bear, grizzly bear and giant panda. The youngsters learned about where these bears eat, where they live, how they play and their role in nature. Another bear-themed program, "Bear Necessities", was delivered at two Toronto Public Libraries in October.

corporate/community volunteer activities at the Toronto Zoo

In addition to the activities of the Volunteer Services unit, the Toronto Zoo also engages corporate and community groups/individuals in various volunteering opportunities, as part of the Conservation, Education & Wildlife Division. These included tree plantings, removing invasive species such as garlic mustard from locations on Zoo site, "browse" cuttings for our animals, and participating in conservation and research through special events. In 2013, a total of 1,001 people participated in these activities, donating 15,232 hours of their time.

516 volunteers

were welcomed at the Zoo in 2013,
an increase of 250 from 2012

\$898,819

the monetary value of active
Zoo volunteers' contribution

1000+

corporate and community members
volunteered 15,232 hours of their time
in Zoo programs

our student volunteers contributed

1,575 hours





saving and protecting **the redside dace**

This little minnow-size fish is an endangered species who's natural home is right on the Zoo's property. Threats include loss of habitat and water pollution. The Toronto Zoo is actively involved in protecting and improving habitat along the Rouge River watershed, and has constructed a fish way (naturalized ladder) to assist fish movement. The Zoo also works on surveys, research, and public awareness programs.

vital research that supports survival

Toronto Zoo published articles 2013

ecology/field conservation/reintroduction

Gasbarrini, D., Powley, D. and Rapley, W. A. *Toronto Zoo Conservation and Education Activities Report 2012-2013*. July 2013.

reproductive physiology/technology

Mastromonaco, G. F., Gonzalez, L., Filice, M. and Comizzoli, P. Somatic cells, stem cells, and induced pluripotent stem cells: How do they now contribute to conservation? *Reproductive Sciences in Animal Conservation – Progress and Prospects*. Holt WW, Brown JL and Comizzoli P, editors. (in press)

Terwissen, C.V., Mastromonaco, G. F. and Murray, D. L. Influence of adrenocorticotrophin hormone challenge and external factors (age, sex, and body region) on hair cortisol concentration in Canada lynx (*Lynx canadensis*). *General and Comparative Endocrinology* (2013) 194:162-167.

Toosi, B. M., Tribulo, A., Lessard, C., Mastromonaco, G. F., McCorkell, R. B., and Adams, G. P. Superovulation and embryo transfer in wood bison (*Bison bison athabasca*). *Theriogenology* (2013) 80:542-551.

Seaby, R. P., Alexander, B., King, W. A. and Mastromonaco, G. F. In vitro development of bison embryos using interspecies somatic cell nuclear transfer. *Reproduction in Domestic Animals* (2013) doi: 10.1111/rda.12180.

Majchrzak, Y., Korver, W., Burness, G. and Mastromonaco, G. F. Validation of salivary cortisol: using saliva to measure cortisol in dromedary camels (*Camelus dromedarius*). Proceedings of the International Society for Wildlife Endocrinology. Chicago, Illinois (2013).

Gonzalez-Grajales, L., Littkeman, M., Smith, L., Heron, R., Mastromonaco, G. F., Madan, P. and King, W. A. Pregnancy rates using a timed-artificial insemination protocol in water buffalos during the breeding and non-breeding season in Ontario, Canada. Proceedings of the Society for the Study of Reproduction. Quebec, Canada, (2013).

veterinary medicine/physiology

Berkvens, C. N., Hyatt, C., Gilman, C., Pearl, D. L., Barker, I. K. and Mastromonaco, G. F. Enzyme immunoassay in the African house snake (*Lamprophis fuliginosus*) and its evaluation in the Eastern Massasauga rattlesnake (*Sistrurus catenatus catenatus*). *General and Comparative Endocrinology* (2013) 194:1-9.



Vancouver Island marmots are only found on Vancouver Island, British Columbia, and only 30 remained in the wild in 2003, due to predation and habitat alteration. In 2013, 27 young Zoo-born marmots took their first steps on Vancouver Island, bringing the total captive-born marmots released to 434 since 2003. The population is now holding steady at 350-500 individuals, with the birth of 80 babies in the wild. The miraculous recovery of the wild marmot population is a perfect example of how successful the Zoo's captive breeding and release programs can be.

saving and protecting

Vancouver Island marmots

research projects supported by the Toronto Zoo in 2013

Toronto Zoo

- 1 Milk Snake Population Monitoring in Rouge Park
- 2 Establishment and Characterization of Cell Cultures from Freshwater Fishes
- 3 Establishment of Artificial Fertilization Techniques for Puerto Rican Crested Toad
- 4 Manipulation of the Reproductive Cycle in Veiled Chameleons (*Chamaeleo calyptratus*)
- 5 Prevalence of Avian Bornavirus infection in wild waterfowl in Southern Ontario and susceptibility of domestic poultry to experimental infection with Avian Bornavirus
- 6 Urinary Reproductive Hormone Levels in Female Chinchillas
- 7 Multi-Cultural Conservation Programme
- 8 Atlantic Salmon Re-introduction Program
- 9 Distribution and Population Monitoring of Malayan Tapir

- 10 Healthy Waters - Healthy Wildlife Lake Stewardship
- 11 Alvar in Ontario
- 12 Rouge Park Species Monitoring
- 13 Ape TAG
- 14 Species at Risk Nest Protection
- 15 Turtle Mitigation
- 16 Blanding's Turtle
- 17 First Nations Way of Knowing Susceptibility of Wild Canada Geese to Natural in Ova Infection with Avian Bornavirus
- 19 Investigation of Key Physiological Measures to Evaluate Loggerhead Shrike Success in Captivity
- 20 Manipulating Reproduction in the Vancouver Island Marmot
- 21 ACTH Challenge for Validation of Hair Cortisol Analysis in Reindeer

Canada Ontario

- 22 Captive Studies to Improve Diet Estimates and Bioenergetics Modeling of Polar Bears in the Wild

Alberta

- 23 Assessment of Nutrient Parameters of Captive and Wild Eastern Massasauga Rattlesnakes

United States

- 24 Bamboo Restoration and Research in situ
- 25 Giant Panda Nutritional Analysis of Bamboo
- 26 Characterizing Reproductive Cycles and Pregnancy: Assessment of Steroid Hormone Metabolites and Pregnancy Biomarkers in Urine
- 27 Hematologic and Biochemical Reference Intervals Determination in Owl Species

International

- 28 Wild clouded leopard conservation in Thailand

status of live populations as of December 31, 2013

(not including domestic species)

	Mammals	Birds	Reptiles	Amphibians	Fish	Inverts	TOTAL
orders	10	20	4	2	18	31	85
families	37	47	24	11	49	48	216
species	85	100	65	28	116	89	483
specimens	601	361	292	219	160	146	1779
# in groups	0	0	10	203	1956	619	2788
grand total	601	361	302	422	2116	765	4567

projects supported by the Endangered Species Reserve Fund 2013

Canada

Toronto Zoo & Ontario

- 29 Loggerhead Shrike
- 30 Polar Bear Biodiversity Studies
- 31 Great Lakes Outreach
- 32 Karner Blue Recovery Group
- 33 Butterfly Conservation Initiative
- 34 Rouge Park Species at Risk Monitoring
- 35 North America Save the Rhino Campaign
- 36 Cell cultures from Lake Victoria cichlids
- 37 Marine Conservation - Sharks
- 38 Shoreline and Wetland Assessment, Restoration for Species at Risk
- 39 Artificial fertilization techniques for Puerto Rican crested toads - Phase 1
- 40 Blanding's Turtles in the Rouge Watershed
- 41 Burmese Star Tortoise Reintroduction
- 42 Sumatran Tiger Conservation

Saskatchewan

- 43 Black-footed ferret (BFF) Canadian Reintroduction - Post release Monitoring

United States

- 44 Ape TAG
- 45 Wyoming Toad SSP Disease Screening/Population Monitoring

Central America & Caribbean

- 46 Panama Frog Rescue Program (Invert Production)
- 47 Canadian Organization for Tropical Education and Rainforest Conservation (COTERC)
- 48 Puerto Rican Crested Toad Field Conservation and Education

South America

- 49 Golden Lion Tamarin Conservation

Africa International

West Africa

- 50 Ape Action Africa, Mefou National Park, Cameroon

East Africa

- 51 Lewa Veterinary Conservancy & Vet Program
- 52 Aqua-Links
- 53 Grevy Zebra Conservation in Ethiopia and Kenya

South Africa

- 54 Intl Elephant Foundation - Waterways & Dura Recovery Project
- 55 African penguins
- 56 Predator Conflict Mitigation Project

Madagascar

- 57 Madagascan tortoise
- 58 Golden mantilla frog
- 59 Toronto Zoo Conservation in Action: Lake Tseny

China

- 60 Giant Panda

Southeast Asia

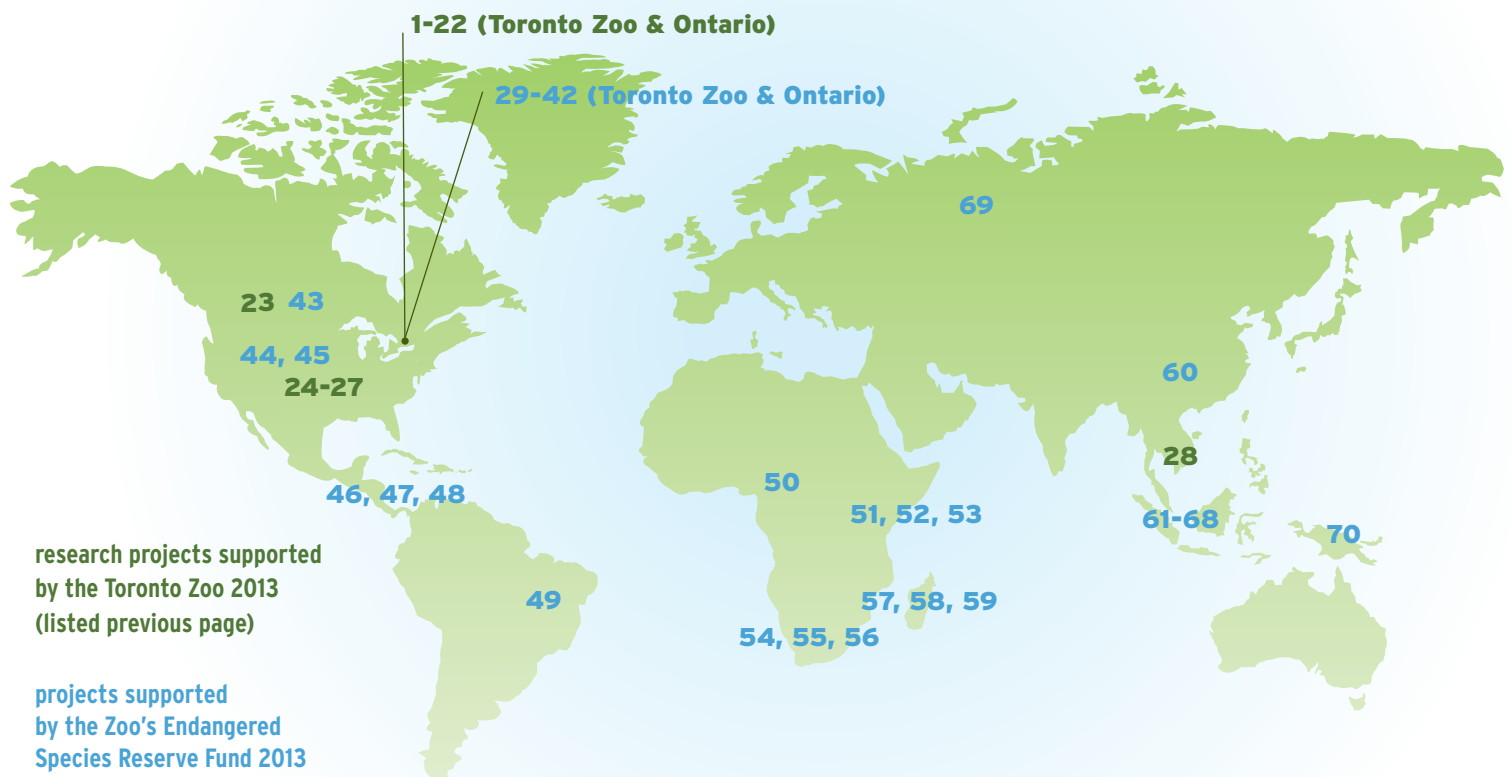
- 61 Asian Turtle Crisis Range Country Conservation
- 62 Project Seahorse
- 63 Malayan Tapir
- 64 Project Punde Kundo (Red Panda)
- 65 Rehabilitation and Management Centre for Indian Turtles in Lucknow
- 66 Sulawesi Habitat Preservation and Education Programming
- 67 False Gharial Conservation in Indonesia
- 68 Hutan Reforestation Efforts in Kinabatangan

Russia

- 69 Saving the Northern River Terrapin

Papua New Guinea

- 70 Tree Kangaroo and Biodiversity Conservation



making a difference for wildlife

In 2013, capital fundraising priorities were focused on our new Giant Panda Experience. We were very fortunate to secure a substantial gift from the Government of Ontario, which was directed towards the Giant Panda Interpretive Centre, an education-based facility that allows us to provide additional information about giant pandas and the need for greater species preservation efforts for these animals and many other species that share their habitat.

Additionally, proceeds from the Black and White Gala, held on February 28, 2013, at the Shangri-La Hotel, were directed towards the Giant Panda Conservation, Research and Education program. The event, which was sold out with 250 guests in attendance, was a great success. Based on participant feedback, it seemed that those in attendance had a fantastic evening and the event was an exciting and enticing way to introduce our Giant Panda Experience to the community.

annual giving programs

The Toronto Zoo continues to successfully raise funds through direct mail, major gifts, planned giving, tribute giving, events and the

Adopt-an-Animal program for our annual conservation, research and education projects. Thanks to our committed donors, we were able to support these important annual projects in 2013:

- Acres for the Atmosphere from Symcor, including a day of planting by Symcor staff
- Operation Conservation: Jane Finch and Operation Conservation: Malvern
- a student visit/workshop program for disadvantaged youth
- the Great Lakes Outreach program, which was supported by a number of private major donors
- Wildlife Health Centre equipment from the Marjorie and Joseph Wright Foundation
- conservation programs supported by Scotts Canada and a number of bequests

thank you!

We want to thank all of the individuals, foundations, corporations and government agencies who, through their generous support, have contributed to the success of the Toronto Zoo and helped to establish an ongoing legacy of conservation and preservation of species and the wild spaces they inhabit.

250 guests

showed their support for giant pandas at the Black and White Gala

giant panda priority

in 2013 fundraising

our committed donors

help us continue to save and protect wildlife





saving and protecting
giraffes

With a rapidly declining population and just over 24,000 giraffes left in wild protected areas, the birth of female baby giraffe Mstari was a very important event. The primary threat to giraffes is habitat loss and poaching in national parks. The Toronto Zoo is part of the Masai Giraffe Species Survival Plan (SSP), which conducts vital research, habitat protection efforts and breeding programs to maintain genetic viability. This is the 17th Masai giraffe born at the Toronto Zoo.

our sincere thanks to all our generous donors in 2013

benefactors

(\$250,000 - \$499,999)

Ministry of Tourism, Culture
and Sport

guardians

(\$100,000 - \$249,999)

Environment Canada
Shell Canada Ltd.

conservators

(\$50,000 - \$99,999)

The Estate of Margerite Blonski
The Estate of Elsa Maire Karha
Pizza Pizza Ltd.
Royal Bank of Canada
Security Technology Services Inc.
The Estate of Gerlinde Wessinger

protectors

(\$25,000 - \$49,999)

Earth Rangers
The Estate of Elsie Eva White

stewards

(\$5,000 - \$24,999)

AGF Management Limited
Barrick Gold Corporation
BeaverTails Canada Inc.
Canada Goose Inc.
Canada Running Series Inc.
The Cavelti Family Foundation
Chinese Cultural Centre
of Greater Toronto
Colliers International
Dianne Hunchak
The K.M. Hunter
Charitable Foundation
Claire Lindsay
Patty Lee Loney
Lowe's Home Improvement
Warehouse
- North Scarborough
Councillor Gloria Lindsay Luby

Manulife Financial
Milliken Meat Products Limited
Ministry of the Environment
Ministry of Natural Resources
Natural Resources Canada
Premier Diamonds
The Estate of Eleanor Sanderson
Scotts Canada Limited
Symcor
TD Friends of the Environment
Foundation
Tippet Foundation
Toronto Field Naturalists
Toronto & Region
Conservation Authority
Unikron Inc.
University of Toronto
- Scarborough Campus
The Geoffrey H. Wood Foundation

donors (\$1,000 - \$4,999)

Aqueduct Foundation
Mr. and Mrs. William Barnett
Nicole Boivin
BRC Canada
Calgary Zoo
Connie Campbell
Karen Campbell
William Cheng
Cundari
Paul Doyle
FCM Recycling Inc.
Debbie Fitzgibbon
Gareth Frost
GFL Environmental East
Corporation
Sabrina Fiorellino
Susan and Doug Gunton
Hidden Bench Vineyards
Hill and Knowlton Canada Limited
Ingredion Canada Inc.
John Kajioka
Peter Kircher
Patricia Koval
Allan & Esther Lee

Lisa Lisson
Maclaren
Patricia MacPherson
James McConnell
Katherine McGuire
Dr. Kay Mehren
& Mr. Peter Mehren
Robert Merrill
Miller Memorial Foundation
Natural Resources Canada
Mark Northwood
One World Futbol Project
D. M. Parr
Rod Phillips
Powis Family Foundation
SCI Interiors Limited
Tony & Caley Taylor Family Fund
Harry Terhune
Bonita To
Toronto Atmospheric Fund
Toronto Convention
& Visitors Association
Joseph L. Torzsok
Robert Tucker
Vital Link
Dr. William Waters
June Watkins
V. Lorraine Williams
The Marjorie & Joseph Wright
Memorial Foundation

sponsors

Black & White Gala

Hainan Airlines
Manulife Financial
Shangri-La Hotel
National Post
TELUS
BMW Toronto
Seafood For Thought™
Scotiabank

media sponsor

CTV Toronto



saving and protecting wood bison

The Toronto Zoo has been actively involved in wood bison conservation since 1977 with captive breeding and reintroduction of animals back into the wild. Since that time, the combined efforts of the Zoo and other organizations have resulted in the species being down listed from “endangered” to “threatened”. However, ongoing disease concerns in remaining wood bison populations continue to threaten this species.

financials

BOARD OF MANAGEMENT OF THE TORONTO ZOO

Statement Of Operations And Net Assets

Year ended December 31

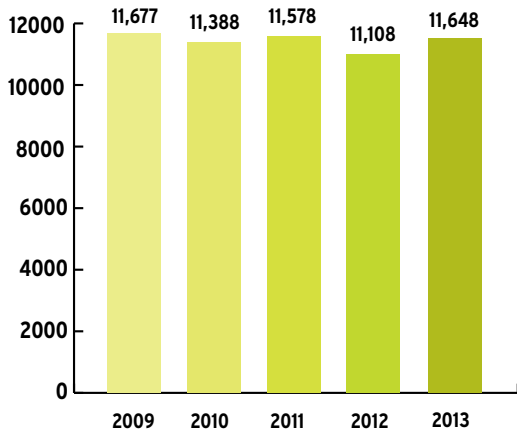
	2013	2012
	\$	\$
REVENUE		
Funding from City of Toronto		
General appropriation	11,648,288	11,108,000
Capital works contributions	-	171,000
Admission	17,535,062	12,255,672
Membership	3,877,727	3,398,284
Food services	7,712,376	6,049,073
Gift shop operations	4,046,962	2,589,029
Parking	3,720,585	3,023,559
Rides and rentals	1,182,049	795,863
Education programs	870,086	798,475
Other revenue and recoveries	1,694,972	1,918,536
Development	1,574,901	787,145
Funding from deferred revenue*	481,235	954,951
Interest	6,530	16,688
	54,350,773	43,655,275
EXPENSES		
Operations & Administration	20,968,971	16,764,106
Conservation, Education & Research	14,999,839	13,868,746
Marketing & Communications	3,364,430	3,094,601
Food services	5,853,331	4,914,508
Gift shop operations	2,703,295	1,987,008
General management	3,217,702	1,987,008
Development	1,093,392	940,876
Amortization of capital assets	626,359	493,488
Post-employment benefits	132,535	245,169
	52,959,854	44,306,950
Excess of revenue over expenses before the following	1,390,919	(651,675)
Transfer to Toronto Community Foundation	(543,247)	-
Additional transfer (to) from City of Toronto	-	(47,007)
Transfer (to) from City of Toronto	132,535	245,169
Excess of revenue over expenses for the year	980,207	(453,513)
Net assets, beginning of year	2,070,188	3,424,122
Net assets, end of year	3,053,197	2,070,188

Note: The required information has been submitted in accordance with the Public Sector Salary Disclosure Act, 1996.

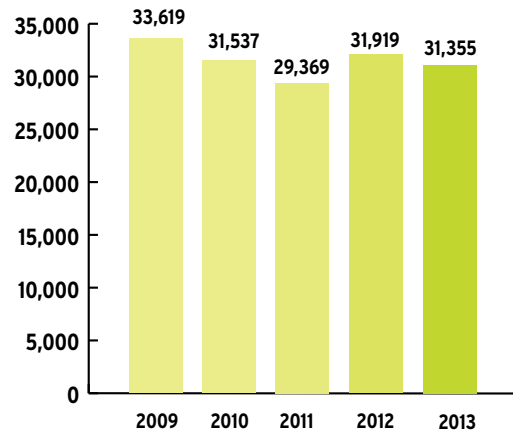
**Funding from deferred revenue is raised primarily through Development Division activities.*

financials continued

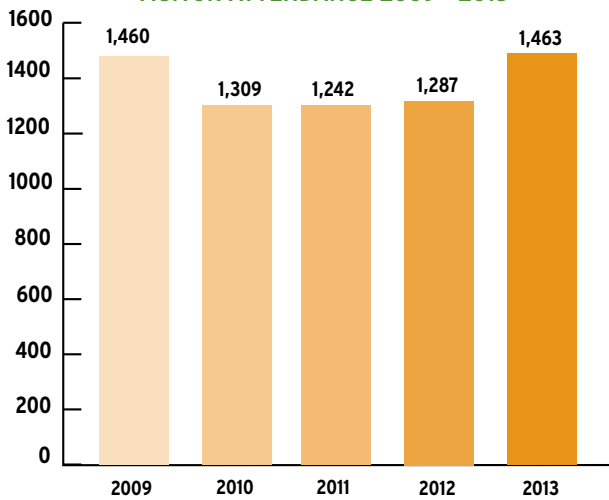
NET OPERATING COSTS
to City of Toronto 2009-2013
(excluding capital financing)



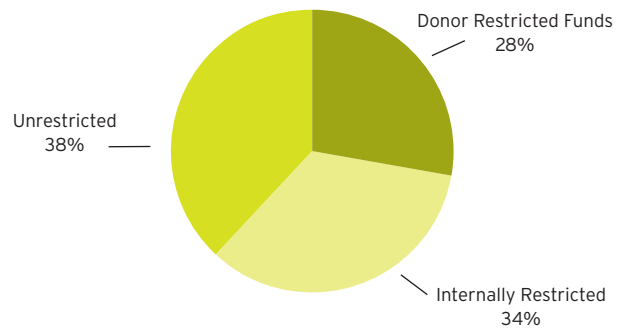
ZOO MEMBERSHIPS 2009 - 2013



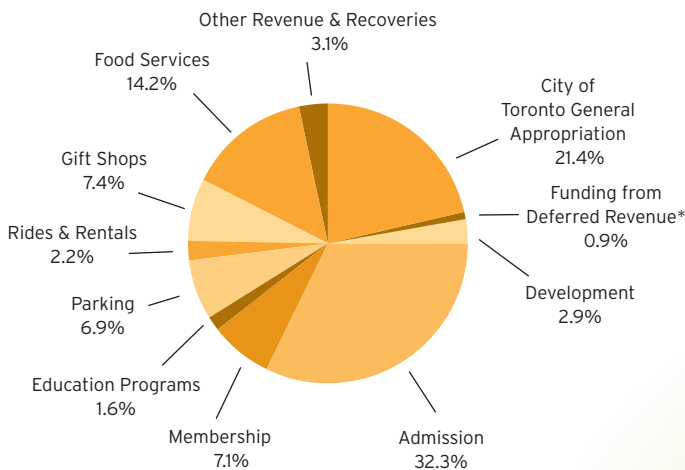
VISITOR ATTENDANCE 2009 - 2013



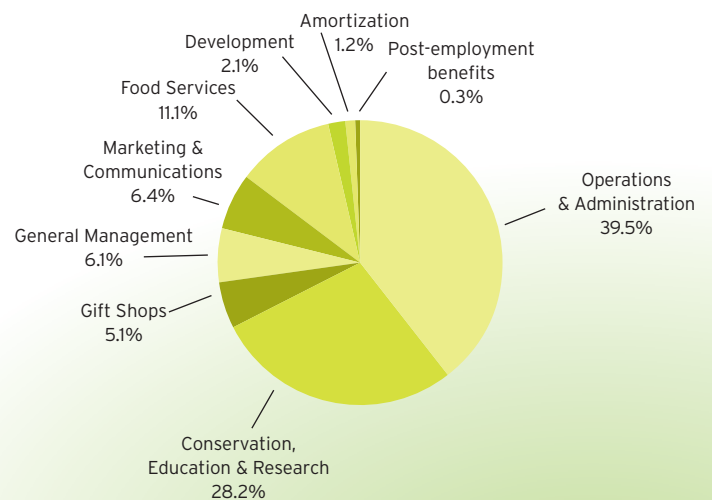
MARKET VALUE OF ASSETS
as at December 31, 2013: \$8,372,317



REVENUE 2013



EXPENSES 2013



who's who at the Zoo

Toronto Zoo Board of Management 2013



Chair

Mr. Joe Torzsok

Vice Chair

Councillor Gloria Lindsay Luby

Board Members

Dr. Cal Bricker
Ms. Tonie L. Chaltas
Councillor Raymond Cho
Councillor Glenn De Baeremaeker
Mr. Paul Doyle
Ms. Sabrina Fiorellino
Mr. Michael Ho
Councillor Giorgio Mammoliti
Mr. Joshua Vinegar
Ms. Cindy Yelle

Toronto Zoo Senior Staff 2013

Chief Executive Officer

Mr. John Tracogna

Chief Operating Officer

Mr. Robin Hale

Executive Director, Conservation, Education & Wildlife

Dr. William Rapley, D.V.M., M.Sc.

Senior Director, Marketing, Communications & Partnerships

Ms. Jennifer Tracey

Director, Corporate Planning

Ms. Susan Gunton

Director, Facilities & Services

Mr. Eric Morris

Acting Director, Wildlife Care

Dr. David Barney, B.Sc., M.Sc., Ph.D.

Senior Veterinarian

Dr. Graham Crawshaw, B.VetMed., M.Sc.,
M.R.C.V.S., Dipl. A.C.Z.M.

Business Development Officer

Mr. Peter Simpson

Campaign Director

Mr. Darryl Swain

Senior Development Officer

Ms. Marion Zimmer

Curator, Amphibians & Reptiles

Mr. Bob Johnson, M.Sc.

Curator, Birds & Invertebrates

up to March 1, 2013
Mr. Tom Mason, B.Sc.

Curator, Fishes

Ms. Cindy Lee, B.Sc.

Curator, Mammals

Ms. Maria Franke, M.Sc.

Curator, Reproductive Programs

Dr. Gabriela Mastromonaco, M.Sc., Ph.D.

Nutritionist – Animal Nutrition

Mr. Jaap Wensvoort, B.Sc., M.Sc.

Manager, Education

Ms. Heather House, B.A., B.Ed.

Acting Manager, Wildlife Care

Mr. Eric Cole

Manager, Computer & Telecom Services

Mr. Charles Duncan

Manager, Financial Services

Mr. Paul Whittam

Manager, Horticulture & Grounds

Ms. Anna-Marie Burrows

Manager, Human Resources

Ms. Shawna Findlay-Thompson, CHRP

Manager, Marketing

Ms. Kimberly Haider

Manager, Member & Guest Services

Mr. Rey deGuzman

Manager, Special Events & Community Relations

Ms. Cynthia Shipley

Manager, Retail & Rides

Mr. Andre Wattie

Manager, Safety & Security

Mr. Shane Alexander

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