



toronto
ZOO

TORONTO ZOO 2009 ANNUAL REPORT



a world
of difference

creating a new way of life



protecting our natural world

2009 overview

vision of the Toronto Zoo

The Toronto Zoo will be a dynamic and exciting action centre that inspires people to love, respect and protect wildlife and wild spaces.

the Toronto Zoo's green vision

Our vision toward a green and sustainable future will include

- eco-ethical partnerships
- green funding plans
- green staff culture
- promotion of green programs and achievements
- sustainable energy use and production

protecting our precious world

As the threats to natural environments and wildlife species increase, the Zoo continues to step up efforts to help protect our fragile planet. From taking a leadership role in a wide range of green initiatives here at the Zoo to conducting vital research that can help strengthen animal populations to taking part in conservation efforts around the world, the Zoo is making a difference.

In 2009, the World Association of Zoos and Aquariums (WAZA) Year of the Gorilla brought



these magnificent animals and the threats to their survival into focus. Hunting and habitat encroachment continue to impact gorillas in the wild, however the efforts of both international and local groups to combat these threats are stronger than ever. The Zoo is involved in many different initiatives that help and protect gorillas. Our own troop of western lowland gorillas is thriving and helping to raise awareness of these fascinating creatures. Female gorilla Ngozi arrived in 2008 and quickly became a favourite of silverback Charles. The big news in 2009 was that Ngozi gave birth to a bouncing baby male, Nassir. Through the Zoo's Endangered Species Fund, the Zoo supports two projects that actively discourage hunting of wild animals, such as gorillas, in central Africa - the Bushmeat Crisis Task Force and the Bushmeat Awareness Project.

Also in 2009, the black-footed ferret, a species that had been extirpated in the Canadian prairies for close to 70 years, was successfully reintroduced with the help of the Zoo's captive breeding program. The Zoo has bred hundreds of ferret kits for release in the US and Mexico, and now has been able to help repopulate our own Canadian prairie with this engaging creature.



2009 overview continued

taking green leadership

Since the Zoo's ambitious Green Plan was introduced in 2007, the Zoo has become a leader in environmental stewardship. Initiatives such as introducing green roofs and geothermal heating, challenging businesses and partners to implement green strategies, participating in international efforts such as disease screening for Wyoming toads and active involvement in protecting our local Rouge Park ecosystem all add up to a Zoo that gets greener every year!

research in action

The Zoo is world renowned for the research conducted here and in partnership with other researchers. By adding to the global knowledge about the health, behaviour and well-being of animals, the Zoo increases their chances of survival. In 2009, the Zoo conducted research on turtle habitats in the Rouge River area, the effects of Vitamin A on toads, the endangered Vancouver Island marmot and many other topics.

changes at the Zoo

2009 was a year of change, with the retirement of Chief Executive Officer Mr. Calvin White after 23 years at the Zoo. Mr. White will be remembered for his key role in creating the Zoo we know today.

Mr. Peter Evans, who has served on the Zoo's Board of Directors for many years, took over the position as Interim Chief Executive Officer while the search for a new Chief Executive Officer was conducted.

Also in 2009, the Zoo said a fond farewell to Zoo Manager of Education, Caroline Greenland. In her 30 years at the Zoo, Ms. Greenland built the Volunteer Program, and created an Education Program that made learning about our wild world a fun, engaging experience.

award-winning Tundra Trek opens

The much-anticipated 10-acre Tundra Trek celebrating our northern wildlife opened in 2009 to rave reviews. With polar bears, Arctic wolves and foxes, reindeer, snowy owls and lesser snow geese, the Tundra Trek is not only an interesting exhibit, it also carries a message of the devastating effects of climate change.

always something new at the Zoo

From new Zoo babies to seasonal events to special exhibits such as Sharks at Stingray Bay, 2009 was a year of learning and excitement for all at the Zoo.



something for everyone at the Zoo

message from the Chair and CEOs



Councillor Raymond Cho
Chair, Toronto Zoo Board
of Management

This past year was an exhilarating one for the Toronto Zoo and visitors alike. Our leadership in conservation and green initiatives grew stronger than ever and in 2009 an impressive 1,459,574 visitors made a Zoo experience part of their lives - the third highest annual attendance figure in the Zoo's history! The Zoo's membership base continues to grow with over 34,000 households now enjoying Zoo membership. The educational value of the Zoo remains unsurpassed and in 2009, over 150,000 children attended the Zoo as part of a school group, from basic tours to special curriculum-based programs. Our education programs continued to capture the imagination of the public and programs such as the Zoo's popular Zoo Camp for kids and our special overnight Serengeti Bush Camp experience were fully booked.

the Arctic comes to the Zoo

The most exciting news at the Zoo for 2009 was the opening of the award-winning Tundra Trek exhibit, a 10-acre opportunity for Zoo visitors to experience Canada's most northern region. The Tundra Trek features the return of our three polar bears, Inukshuk, Nikita and Aurora, who were orphaned in the wild. Their new home has five times more space, an ice cave for underwater viewing, a bear den to go up close and personal with Zoo visitors, and an environmentally-friendly green roof. Our Arctic wolves have lots of space to roam, and other northern inhabitants such as snowy owls, Arctic foxes, reindeer and lesser snow geese are there to add to the experience. The Goose Camp and Inuit Node tell a story of life and survival in the North and invite visitors to learn more about northern Native

Canadians. The Tundra Trek exhibit also carries a more serious message about the environmental crisis taking place in the North and the impact of climate change. By engaging visitors in appreciating the beauty and value of our North, the exhibit challenges them to help preserve our northern heritage and offers ways to take action on a personal basis.



Calvin White
Chief Executive Officer,
Toronto Zoo
(retired June 2009)



Peter Evans
Interim Chief Executive
Officer, Toronto Zoo



message from the Chair and CEOs continued

Stingray Bay packs in the crowds

The hugely successful Stingray Bay special exhibit returned in 2009, but with an awesome addition - sharks! Sharks at Stingray Bay - a Touching Experience attracted big crowds all summer long and helped to boost Zoo attendance to near-record levels. Over the years, special exhibits have proven to be an important draw for the Zoo and we look forward to new and exciting exhibits in the years to come.

African Rainforest renovation plans take shape

Now with the amazing Tundra Trek up and running, the next project on the list for the Zoo is the renovation of the African Rainforest Pavilion. Zoo staff has been hard at work on developing plans for a much-needed facelift of the southern half of this pavilion, which has remained basically unchanged since 1974. The plans call for a compelling, natural-looking habitat that includes barrier-free public pathways and increased animal amenities such as feeders, waterers and behavioural enrichment devices. The chameleon holding area will also be refurbished and a new chameleon nursery added so visitors can see our baby chameleons. The northern half of the exhibit, which houses the dramatic two-acre Gorilla Rainforest will remain open during the renovation, which will be completed in 2011.



preserving nature

This year the Zoo continued its efforts to preserve our natural world with new research and increased conservation efforts, both at the Zoo and around the world. But what gets everyone excited is the new babies that arrived at the Zoo. Not only are they wonderful additions to our collection, but they also represent our mission to preserve endangered species for generations to come. In 2009, new babies included a western lowland gorilla, three cheetah cubs, two snow leopard cubs, a Przewalski's horse foal, a wood bison calf, Barbary sheep, common marmosets, a mandrill, olive baboons, American flamingoes, a Bactrian camel calf, a Himalayan tahr calf, a moose calf, black-footed ferrets, Vancouver Island marmots, Puerto Rican crested toads, Malaysian painted turtles, boa constrictors, and many others.

thank you to everyone who helps make the Zoo a success

The Toronto Zoo is proud to be well supported by the commitment of our many members, volunteers, donors and sponsors, as well as our hard-working staff. On behalf of the Toronto Zoo, we would like to thank everyone who helps make the Zoo a success. We couldn't do it without you!

spreading the message of the Zoo

marketing and communications

sending a green message

The Zoo just keeps getting better - and greener! In 2009, the Zoo continued to expand and grow the message of responsible stewardship of our natural world. With the third highest attendance in the Zoo's history, 2009 was a memorable year. By setting an example of environmental responsibility, educating visitors on the urgency of environmental issues and offering positive ways to help make a difference, the Zoo combines a powerful message with a fun and engaging experience.

northern exposure

The much-anticipated Tundra Trek opened to rave reviews and large, enthusiastic crowds in the summer of 2009. With a VIP reception that featured acclaimed Canadian singer, songwriter and conservationist Chantal Kreviazuk, the Honourable Donna Cansfield, Minister of Natural Resources, along with Zoo management, media, and over 8,000 Zoo members, the 10-acre Arctic exhibit opened with a splash. The Tundra Trek, with its polar bears, Arctic wolves and foxes, reindeer, snowy owls and lesser snow geese opened to the public on Saturday, August 1, 2009.

return of the rays

The special stingray touch tank exhibit that allowed visitors to safely interact with several types of stingrays returned with even greater success in the summer of 2009, in a new version called Sharks at Stingray Bay - A Touching Experience. Visitors of all ages were thrilled to be able to touch the friendly and velvety soft southern red and cownose stingrays, along with the harmless nurse and bamboo

sharks. The exhibit consisted of a large 60,000 gallon low-walled, salt-water pool that allowed visitors to see these graceful sea creatures and interact with them. The exhibit attracted over 400,000 visitors, from May to October 2009.

seafood for thought™

In June 2009, the Zoo introduced Seafood for Thought™, a special event designed to raise awareness for new Zoo partner, Seafood Watch. This program, introduced by the Monterey Bay Aquarium, encourages consumers and the food service industry to buy seafood from fisheries and fish farms whose practices support sustainable practices, to help ensure a future with abundant ocean wildlife. Over 400 guests sampled delectable tastings from some of Toronto's top chefs, wineries and brewers.





marketing and communications continued

focus on gorillas

One of the highlights of 2009, the Year of the Gorilla, was the birth of a healthy western lowland gorilla baby, Nassir, to mom Ngozi on September 2. Over 2,000 name suggestions were submitted and thanks to over 11,000 on-line voters the top five names were chosen. Then Nassir's dad, Charles got in on the act and chose the winning name by selecting the fruit bucket marked Nassir for his snack.

fundraising efforts

As part of the Zoo's ongoing support of the community, a number of fundraising events were held at the Zoo such as the Great Strides Walk for Cystic Fibrosis, the McGregor Socks Make-A-Wish Scavenger Hunt and the Zoo's own fundraiser, the Oasis Zoo Run. These successful events bring new visitors to the Zoo, attract valuable media attention and generate goodwill with the public.



fun times at the Zoo

Popular events happen all year long at the Zoo! International Migratory Bird Day, Party for the Planet, Rattlesnake Workshop and the Spring Toad Festival all raised awareness of environmental concerns. Our annual Love Bugs at the Zoo, the Easter "Egg" Stravaganza, Mother's and Father's Days events, Migratory Bird Day, the Wild Toy Animal Hospital, Canada Day festivities, Senior's Day, Boo at the Zoo, Christmas Treats Walk and the New Year's Family Countdown kept visitors coming back. Plus Zoo members enjoyed special members-only events such as the annual photo contest and previews of the Tundra Trek exhibits and Sharks at Stingray Bay.

partners and sponsors

It's great to have friends and the Zoo is proud to be working with an impressive list of sponsors and partners. Mark's Work Wearhouse now provides Zoo staff uniforms. Seafood Watch encourages people to choose seafood from sustainable sources. The Delta Toronto East hotel was part of a successful radio campaign that reached out to southern Ontario and US listeners. Media partners such as CTV, 97.3 EZ Rock, 98.1 CHFI, Toronto Star and loyal sponsors Zellers, Hbc, Coca-Cola, Hershey Canada, Today's Parent and YTV all bring wonderful opportunities to promote the Zoo, while our creative and media planning/buying partners Lowe Roche and ZenithOptimedia make our multi-media advertising campaigns possible.



creating a greener world

conservation, education and research

greening the future

The Toronto Zoo has a strong record of environmental protection and energy efficient operation. Management encourages staff, volunteers and the public to live sustainably in balance with nature.

reducing greenhouse gases

Part of the Zoo's Green Plan is a significant reduction in greenhouse gas emissions. Our goal is to reduce our emissions by 6% below 1990 levels by 2012, and 95% below 1990 levels by 2027.

In 2009, the new 1.2 kW solar Photo Voltaic system on the Aurora Borealis Weather Station was installed to power the fan systems and demonstrate the benefits of renewable electricity. The Zoo added another green roof last year, on the polar bear exhibit. Green roofs filter particles from the air, turn carbon dioxide into oxygen and cool air around the building. Recent studies have indicated that greening just 6% of the City of Toronto's rooftops could save around \$1.0 million in energy costs per year.

ECOexecutives™ – challenging businesses to go green

ECOexecutives™ is a new program of free, one-day sustainability workshops for executives of small-to-mid-sized businesses. ECOexecutives™ provides them with the necessary toolkit and inspiration to initiate change from the top down. Zoo staff uses Zoo resources to teach executives about the role of businesses in fighting climate change. Topics include energy conservation, renewable energy,

green roofs, waste management and green social and business marketing.

ECO-CELL™

In 2006 the Zoo joined forces with other North American zoos and aquariums and ECO-CELL™. African mining for minerals used in the manufacturing of small electronics is disrupting the habitat of the lowland gorilla and many other species. By recycling cell phones, pagers, PDA's, and other electronic devices, we can decrease the demand for these raw materials. In 2009, the Toronto Zoo collected 4,400 units and raised over \$2,500, once again beating all 175 participating partners!





conservation, education and research continued

interest in Adopt-A-Pond grows

In 2009 the Adopt-A-Pond Wetland Conservation Programme enjoyed one of its most successful years to date. Environment Canada's Habitat Stewardship Program provided close to \$70,000 for new wetland projects and participation in Ontario Turtle Tally almost doubled. The Urban Turtle Initiative mapped out potential wetland restoration sites and Adopt-A-Pond helped to construct a 1000-square-metre turtle-friendly wetland, with a nesting beach and over-wintering space. The 10th annual Spring Toad Festival with "Toady" the mascot and fun learning for all ages, was a big success. The Social Marketing and Chelonian Sustainability Workshop for professionals and academics presented new research and ideas on helping turtles at risk.



stellar year for Turtle Island Conservation

As a First Nation community-mandated grant-funded program we were honoured to receive one of the largest Zoo grants ever! The Museum Assistance Program funded a diverse collection of projects, along with other funding partners Aboriginal Funds for Species at Risk, Young Canada Works and Canadian Heritage. Many First Nation community initiatives were related to wetlands and biodiversity preservation.

ongoing rescue and recovery

Thanks to the efforts of Zoo staff, the black-footed ferret has returned to the Canadian prairies after an absence of close to 70 years. In 2009, 34 Zoo-bred black-footed ferrets were successfully released into the wild and are now thriving in their new home. The Zoo continued to work with the Panama Frog Rescue Program to train staff in maintaining healthy survivor frogs in captivity, while solutions to the deadly chytrid fungus plague can be found. The Canadian Organization for Tropical Education and Rainforest Conservation (COTERC) continued their work in Caño Palma Biological Station, researching and protecting the sea turtles along the Playa Norte of Tortuguero in Costa Rica. The Zoo also helped the Eastern Loggerhead Shrike Recovery Program release approximately 100 young birds to bolster this endangered species.

research for our future

Research is an important part of the Toronto Zoo and Zoo staff led many vital research projects that helped to preserve and protect endangered species around the world. The Toronto Zoo is a major player in reproductive biology research and in 2009, our Reproductive team completed its veiled chameleon research study. The valuable information gained will now be used to promote reproductive health in many types of endangered reptiles. A new study on wood bison was started in 2009 to help develop a viable reproduction strategy for wood bison.





conservation, education and research continued

the world is our classroom

Using the Zoo as a living classroom, the Education Branch provides opportunities for people to understand their connection to the natural world and inspires them to live in more sustainable ways.



something for everyone

Rise 'n' Shine with the Sharks at Stingray Bay, a unique family program consisting of breakfast, an informative talk, interactive activities, and an early morning stingray feeding experience was enjoyed by 504 participants during the summer months. Parent and Tot programs have proven to be consistently popular with sessions filling up one to two days after registration begins. Youth Badge Programs are one of the longest operating programs at the Zoo in which Scouts, Guides, Brownies and Cubs attend a half-day program on-site to earn any one of 14 badges.

Zoo Kids and Zoo Camp programs continue to be highly popular providing wild experiences for children in which learning is disguised as fun! This year, 2,180 children,

ages 4-16, were introduced to our wild world and conservation messages in our weeklong summer camps. The older campers in Zoo Camp (ages 11-16) focused on an environmental letter-writing campaign, making Prime Minister Harper aware of Canada's green plan and encouraging him to attend the upcoming Copenhagen Protocol meetings. As a whole, Zoo Campers collected over 500 cell phones for the ECO-CELL™ program this summer! Serengeti Bush Camp continues to provide a unique overnight camping experience, for youth/school groups and families, with 3,056 participants in 2009.



grant funding extends learning opportunities

With generous support from The Geoffrey H. Wood Foundation, Tippet Foundation, and Weston Family Foundation, Operation Conservation, a two-day immersive program at the Zoo continues to touch the lives of youth from the Jane-Finch and Malvern communities. In 2009, 246 grade six students from these inner city areas were treated like VIP's, gaining a glimpse of the "hidden Zoo" with behind the scenes tours, hands-on educational opportunities and activities.

With funds from an anonymous donor, 14 youth aged 11-16 from the Mount Dennis Community in the Old City of York enjoyed a weeklong experience at our summer Zoo Camp. Additional funding from the same donor allowed 1,204 students to attend a four-hour curriculum-based workshop at the Zoo.

In 2009, 2,889 teachers attended bi-annual Teachers Days, which demonstrated the relevance of a field trip to the Zoo in enhancing classroom curriculum, and over 9,700 students participated in workshops.





conservation, education and research continued

making connections through technology

With funding from the Museum Assistance Program (MAP) and in partnership with Grande Yellowhead District School Board in Alberta for the provision of equipment, distance education programs were developed to support elementary and secondary curriculum. A number of pilot programs were successfully delivered to over 120 students in Alberta and Ontario schools. As a tool for continuing education, a number of video conference sessions were also arranged to connect Zoo staff and Volunteers with Polar Bears International (PBI) to learn more about climate change and the effects on polar bears.

teaching tomorrows educators

Fourteen students from six institutions served internships with the Education Branch in 2009. Four interns from Humber College, Multimedia Design and Production Program developed a series of interactive games and learning activities for the education webpage and various videos on orangutan enrichment, geothermal energy, black-footed ferret breeding, and western lowland gorillas Species Survival Plans for our website and on-site screens. Early Childhood Education students helped develop an educational outreach program for kindergarten students. University Education students redeveloped and enhanced our grade two outreach program, revised our outreach program on biodiversity for grade six students and our program for secondary level students/adults on sustainability. Museum Studies students created a new "Gorilla Experience" volunteer touch table, posters for Dja Research Station in the African Rainforest Pavilion and a tour script on evolution for grade 12 students. The Zoo also delivered summer credit courses for high school students including grade 11 biology, anthropology and evolution, grade 12 environmental leadership and conservation biology. Overall, 16 students attended these two-week courses.



The past year saw a successful blend of programs that delivered both educational value and strong revenues. Progress on the establishment of a Centre for Sustainable Life and Learning will allow the Zoo to expand education opportunities both on-site and through outreach activities.

bringing the Zoo to life

volunteers

enhancing the visitor experience

Volunteers are a key component of the diverse and multiple programs the Zoo is able to deliver both on-site and in the community. Volunteers add tremendous value to the visitor experience by providing that personal connection, and helping to bring education messages to life. Overall, in 2009, our roster of 340 Volunteers donated 27,846 hours of their time to the Zoo and contacted approximately 794,700 people.

As valued members of our Zoo family, Volunteers themselves embrace their connections to the Zoo as showcased by the number of long-term Volunteers that have continued to dedicate their time to us. In 2009, one Volunteer was recognized for 30 years of service to the Toronto Zoo, another for 25 years, and four individuals achieved 20-year recognition. An additional eight Volunteers celebrated 15 years of dedication to the Zoo and another 10 were recognized for contributions of 10 years.

volunteering at the Zoo - a win-win partnership

As a dynamic place, the Zoo offers a wealth of opportunities for lifelong learning, not only for the public, but also for our team of Volunteers delivering our education programs and messages. In addition, volunteering at the Zoo connects individuals with other like-minded people with a keen interest in wildlife and conservation. Also, it's a way to improve health, stay active, and develop a new social network. In 2009, 18 people completed 13 weeks of training to become Year-Round Volunteers, providing them with the knowledge and skills to deliver student workshops and guided tours, operate touch tables and other interpretive areas around site, and to deliver outreach presentations in the community.

Sixty-three Summer Information Volunteers were recruited and trained to assist visitors at interpretive stations throughout the Zoo during the busy months of May to August. In addition, 28 new Zoo Ambassador Student Volunteers (high school or post secondary students) joined our Volunteer roster to provide assistance at special events and with our Zoo Kids summer camp programs.





volunteers continued

upgraded training program

In the fall of 2009 significant revisions were made to our training program for Year-Round Volunteers, providing them with more practical sessions that directly relate to their core responsibilities. With one of our staff as a Certified Interpretive Guide and Trainer, we were able to incorporate proven interpretive techniques into our training to assist Volunteers with engaging visitors and making the connection to key messages.

To support the Year of the Gorilla and to enhance our interpretation in the African Rainforest Pavilion, a new touch table aimed at showcasing the connections and similarities between gorillas and humans was developed. At this table Volunteers interpret the concept by exploring comparisons in diet, bone structure, facial expressions, pregnancy, social organization as well as briefly looking at the current research in the field.



volunteers and research

Volunteers lent their analytical skills to important data collection in 2009, on a variety of animal species. In particular, they completed a two-month study of the lion-tailed macaques housed in their new geothermal-heated exhibit. The study was designed to record how the animals used their renovated exhibit. Many other observations were carried out including snow geese, cheetahs, elephants, and Komodo dragons.

The Volunteer Program is a valuable asset to the Zoo that furthers our education and conservation mandate with the public. The program benefits from a stable and long-term group of Volunteers who are deeply committed to the work of the Zoo and importantly, thoroughly enjoy interacting with our visitors of all ages.

research that helps our natural world

research

research projects supported by the Toronto Zoo in 2009

Toronto Zoo

- 1 Alpaca Reproduction Research
- 2 Cortisol Research Project
- 3 Cytogenetic Study
- 4 Elephant Contraceptive Study
- 5 Elephant Vitamin E study
- 6 Non-Surgical Artificial Insemination in Cheetahs
- 7 Puerto Rican Crested Toad Vitamin A Study
- 8 Reptile Contraceptive Study
- 9 Rouge River Turtle Study
- 10 Snake Implant And Stress Study
- 11 Toad Vitamin A Study
- 12 Wood Bison Research
- 13 The impact of dietary change on undesirable behaviours and activity levels in Western lowland Gorillas at Toronto Zoo.
- 14 A study on the development of browse preservation techniques
- 15 A study on the development of a cricket gut-loading diet



Canada

B.C.

- 16 Reptile Embryo Study
University of British Columbia

Ontario

- 17 The Effect of Allowing Service Dogs on Site at the Toronto Zoo
University of Guelph
- 18 Monitoring Thyroid Function In Polar Bears
University of Guelph
- 19 Reindeer Telemetry Study
University of Guelph
- 20 Hyena Gnawing Effects On Bones
Trent University
- 21 Reindeer Camera Study
Canadian Forest

United States

- 22 Body Condition Index for African Elephants
George Mason University,
Smithsonian National Zoological Park
- 23 Barbary Ape Research
University of Washington
- 24 Elephant Temperature Study
Indiana State University

status of live collections as of December 31, 2009

(not including domestic species)

	Mammals	Birds	Reptiles	Amphibians	Fish	Inverts	TOTAL
orders	12	19	4	2	18	31	86
families	33	49	21	11	46	61	221
species	88	101	59	26	113	112	499
specimens	592	353	252	129	242	187	1755
# in groups	0	0	11	56	3637	590	4294
grand total	592	353	263	185	3879	777	6049

research continued

projects supported by the endangered species reserve fund 2009

Canada

Toronto Zoo & Ontario

- 1 Butterfly Conservation Initiative
- 2 Canadian Association for Bushmeat Awareness
- 3 Endangered Pollinators of Ontario
- 4 First Nations Ways of Knowing Turtle Island Conservation
- 5 Great Lakes Outreach-Dace/Salmon/ Eel/ Darter
- 6 Karner Blue Recovery Group
- 7 Loggerhead Shrike
- 8 Management of Captive Hoofstock Sorted Sperm
- 9 NA Save the Rhino Campaign
- 10 Ontario Crayfish Program
- 11 Polar Bear Biodiversity Studies

- 12 Project 400 - Ontario Road Ecology
- 13 Recovery of the Dusky Salamander
- 14 Urbanization impacts on Redside Dace

Saskatchewan

- 15 Black Footed Ferret Reintroduction in Grasslands National Park

United States

Wyoming

- 16 Wyoming Toad SSP Monitoring

Mexico

- 17 Conservation of Axolotl and other Amphibians

Central America & Caribbean

- 18 Canadian Organization for Tropical Education and Rainforest Conservation (COTERC)

- 19 Panamanian Frog Rescue
- 20 Panama Frog Rescue Program
- 21 Puerto Rican Toad Field Conservation and Education

Brazil

- 22 Golden Lion Tamarin Captive Breeding & Reintroduction

Africa - International

- 23 Bushmeat Crisis Task Force

West Africa

- 24 Pygmy Hippo and Manatee Conservation in Ivory Coast
- 25 Centre for Education, Research & Conservation of Primates and Nature (CERCOPAN)

Central Africa

- 26 Poaching Control WAZA National Park, Cameroon
- 27 Nouabale-Ndoki Project

East Africa

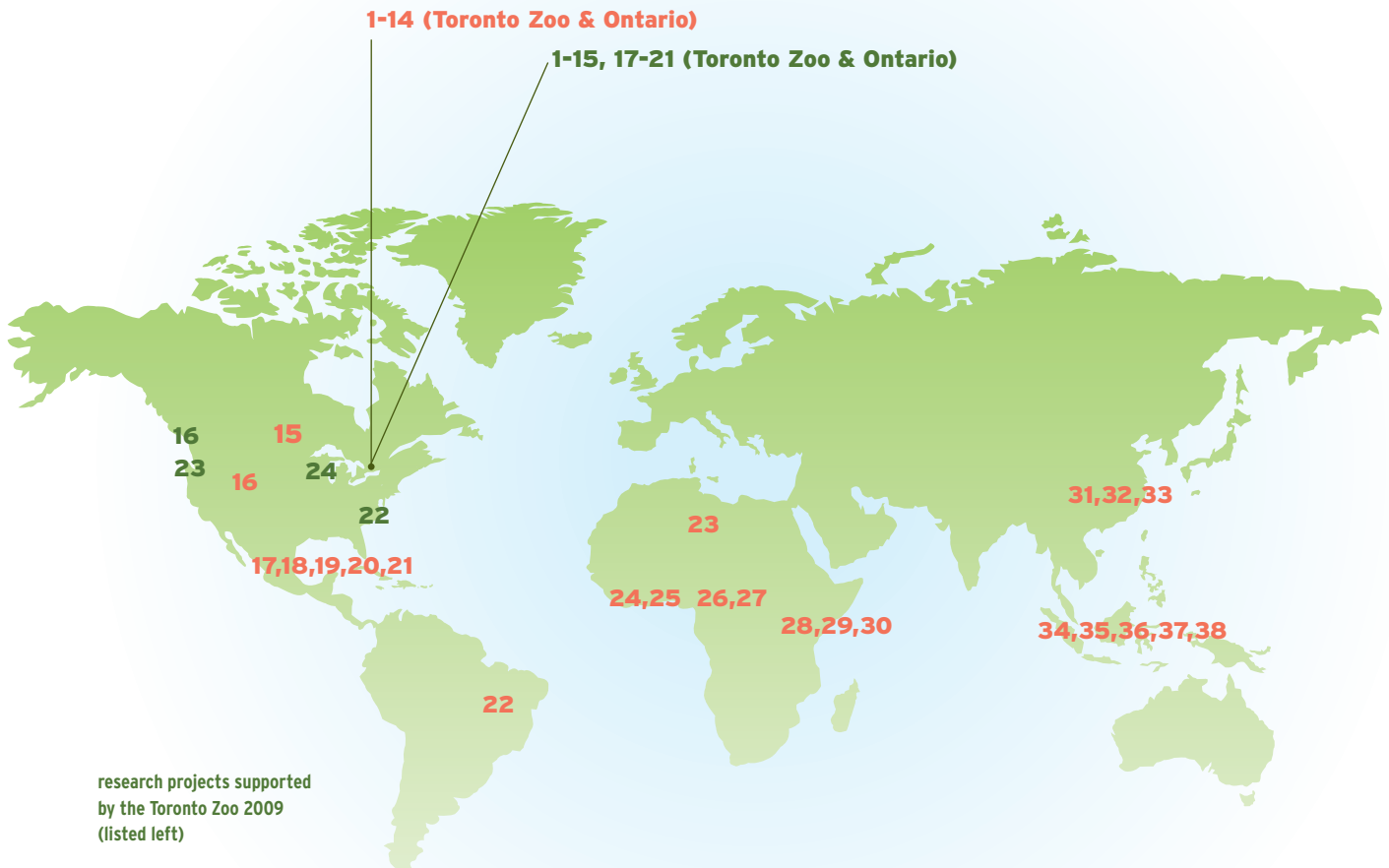
- 28 Lake Victoria Cichlids Species Survival Program
- 29 Lewa Veterinary Conservancy and Vet program
- 30 Grevy's Zebra Trust

China

- 31 South China Tiger
- 32 Snow Leopard in situ conservation
- 33 Przewalski's Horse Satellite Tracking

Southeast Asia

- 34 Project Seahorse
- 35 Orangutan SOS
- 36 Malayan Tapir
- 37 Sulawesi Wildlife Crime Unit - Babirusa
- 38 Dwarf Crocodile



research projects supported by the Toronto Zoo 2009 (listed left)

projects supported by the Zoo's Endangered Species Reserve Fund 2009 (listed above)

conservation in focus

conservation highlights

the return of the black-footed ferrets - a Canadian first

After extensive research and planning, the first Canadian release of black-footed ferrets occurred on October 2, 2009 when 34 ferrets were released into Grasslands National Park in Saskatchewan. Now that the ferrets have been released onto the Canadian prairies, they will be monitored to estimate their population size, survival and reproduction. To increase the population, additional ferrets will be released annually for at least three years (2010-2012). Black-footed ferrets are finally back in Canada after being extirpated and last reported in 1937. Introducing the black-footed ferret into Canada is of great conservation significance by establishing a population in its most northerly historic range. It emphasizes the role that zoos can play in saving endangered species through captive breeding, and the value of National Parks and protected places. It also represents an example of an international and multi-institutional collaboration. Toronto Zoo spearheaded Canadian recovery efforts and all of our partners are optimistic that the ferret will make a full recovery in Canada.



Vancouver Island marmot repopulation on track

Overall, 2009 has been an outstanding year for the Vancouver Island marmot recovery program, with 68 captive-bred marmots released in 13 sites and 22 litters born in the wild, which is double the number of litters in 2008. The wild population increased from 140 to 160 in 2008 and from 230 to 280 at the end of 2009, a tenfold increase over 2003.

The year's first test of releasing young was successful and all survived hibernation. Predation mortality was not increasing proportionally to the number of marmots released or in the wild. This is the eighth consecutive year of reliable breeding in captivity and the ability to release large numbers of captive bred marmots is now really beginning to show dividends.



new Aqualinks program aims to increase water quality

Building on the success of The Toronto Zoo "Great Lakes Outreach Program" we are pleased to announce the launch of Aqua-Links as of September 2009, an international outreach education program. Aqua-Links promotes clean water practices in the two Great Lakes regions of the world - North America and East Africa. The program provides schools with aquaria containing a locally endangered fish species, and links students in Canada and East Africa together to discuss global aquatic conservation issues.



support for our natural world

supporters

the spirit of giving

The number one reason for charitable giving is a feeling of compassion toward people and the underserved. Today, there are organizations in need around every corner, locally and globally.

Over the past year, we've all become familiar with the terms global economic crisis, and recession. The effects of this recession have been substantial and for many, charitable giving has declined while the need for giving has never been greater.

Responding to the call to create a better world for all living things is the focus of the vital work that we do here at the Toronto Zoo. The Toronto Zoo is committed to the conservation of wildlife through the exhibition of animals, plants and ecological habitats and through conservation, preservation, research and educational programs. In the midst of this economic instability, you, our donors remained committed to assisting us to create positive change in helping to continue our programs and save endangered species.



Here are a few examples of the difference your generous contributions made to our vital work in 2009:

- Amphibian conservation and the Zoo's Amphibian Rescue Centre were supported by a major gift from the Garfield Weston Foundation
- The Turtle Island Initiative received a significant donation from the RBC Foundation to develop leadership camps for 50 urban First Nations youth
- Conservation programs were supported through numerous bequests including gifts from the Estates of Elizabeth Blackstock, Lilian Bloom, Evelyn Mary Davis, Silveria Ladek, Lilian Gertrude McCullagh, Isobel White, Dorothy Anne Walter, Ruby Alison Killick, and Lawrence Nicholas Krain
- through a grant from the Museum Assistance Program, the Zoo's first Distance Learning project made possible the delivery of curriculum-related Zoo workshops to schools in Alberta, British Columbia and Ontario
- Operation Conservation, an education program for students from schools in the Jane-Finch area, was made possible through donations from the Tippet Foundation and the Geoffrey H. Wood Foundation

We wish to thank all the individuals, foundations, corporations and government who, through their generous financial support, have contributed to the success of the Toronto Zoo and helped to establish an ongoing legacy of conservation and preservation for wildlife and wild spaces.



we couldn't do it without you

donors

our sincere thanks to all our generous donors

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

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Mrs. Jane Buckingham
Ms. Connie Campbell
Mr. Peter Cavelti
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Ms. Joanne Eidinger
Elephant Managers Association
Mr. Paul Frazer
Mrs. Diana Goad
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Mrs. Patricia Koval
Mrs. Esther Lee
Miss Claire Lindsay
Ms. Pat Loney
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Mr. Simon Marwood
Ms. Katherine McGuire
Dr. Kay Mehren & Peter Mehren
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financials

BOARD OF MANAGEMENT OF THE TORONTO ZOO

Statement Of Operations And Net Assets

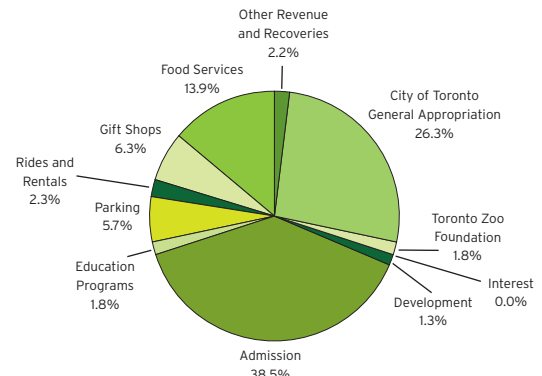
Year ended December 31

	2009	2008
	\$	\$
REVENUE		
Funding from City of Toronto		
General appropriation	11,676,507	11,720,153
Capital works contributions	-	-
Admission	17,079,020	12,393,958
Funding from Toronto Zoo Foundation	811,333	3,558,825
Development	566,401	-
Food services	6,151,509	5,501,058
Gift shop operations	2,813,533	2,909,945
Parking	2,526,715	2,313,827
Rides and rentals	1,010,286	1,028,155
Education programs	787,071	788,376
Other revenue and recoveries	974,851	573,345
Interest	8,328	41,194
	44,405,554	40,828,836
EXPENSES		
Operations & administration	20,984,639	20,796,372
Conservation, education & research	6,913,892	6,603,248
Marketing & communications	5,087,828	4,729,671
Food services	4,780,866	4,294,226
Gift shop operations	2,282,273	2,041,485
General management	1,852,308	1,335,666
Development	327,589	-
Amortization of capital assets	499,039	377,749
	42,728,433	40,178,417
Excess of revenue over expenses before the following	1,677,120	650,419
Transfer to Toronto Community Foundation	(238,812)	(174,688)
Transfer of excess funding to City of Toronto	(1,209,707)	(174,688)
Additional funding from City of Toronto	-	-
Transfer (to) from City of Toronto	441,479	648,933
Excess of revenue over expenses for the year	670,060	1,124,664
Net assets, beginning of year	3,274,940	2,150,276
Net assets, end of year	3,945,000	3,274,940

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

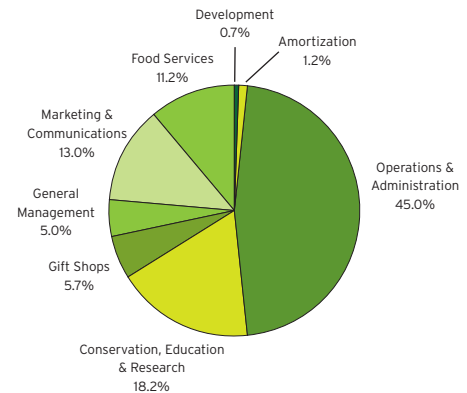
TORONTO ZOO

Revenue 2009



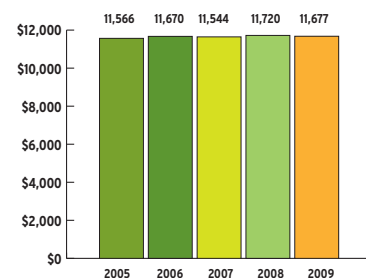
TORONTO ZOO

Expenses 2009



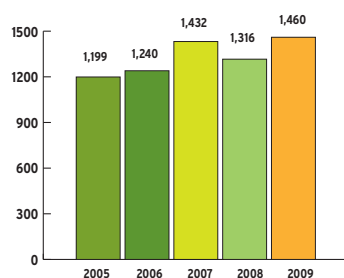
TORONTO ZOO

Net Operating Costs to City of Toronto 2005-2009 (Excluding Capital Financing)



TORONTO ZOO

Visitor Attendance 2005-2009



a world of knowledge

publications

Toronto Zoo's published articles for 2009



ecology/field conservation/reintroduction

Gunson, K., Ireland, D. and Schueler, F. *Incorporating road mortality hotspot modeling and before-after-control impact analyses into 400 level highway mitigation planning in Ontario*. PROCEEDING OF THE INTERNATIONAL CONFERENCE ON ECOLOGY & TRANSPORTATION. Duluth, MN. 2009.

Madden, D., Ballestro, J., Calvo, C., Carlson, R., Christens, E. and Madden, E. *Sea turtle nesting as a process influencing a sandy beach ecosystem*. BIOTROPICA 40: 758-65. 2008.

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Beaucherc, K. B., Johnson, B. and White, N.B. *Genetic rescue of inbred captive population of the critically endangered Puerto Rican crested toad (Peltophryne lemur) by mixing lineages*. CONSERVATION GENETICS. In press. 2009.

veterinary medicine/physiology

Crawshaw, G.J. *Clinical environment* Pp. 79-81; *Physical trauma to bats in zoological institutions* Pp. 105-108; *Anesthesia of vampire bats* Pp.309-310. In: Barnard S.M. 2009, *Bats in Captivity*, Volume 1: Biological and Medical Aspects. Logo Press, Washington D.C.

Durno, A., Hayden, S., Mackie, P. and Mastromonaco, G. *Cortisol as a potential mechanism of reproductive suppression in captive Vancouver Island marmots (Marmota vancouverensis)*, (Poster). 36TH ANNUAL SOUTHERN ONTARIO REPRODUCTIVE BIOLOGY WORKSHOP. 2008.

Dutton, C.J., Quinnell, M., Lindsay, R., DeLay, J., and Barker, I.K.. *Paraparesis in polar bear (Ursus maritimus) associated with West Nile virus infection*. JOURNAL OF ZOO AND WILDLIFE MEDICINE 40: 568-571. 2009.

Moerdyk-Schauwecker, M., Eide, K., Bildfell, R., Baker R. J., Black, W., Crawshaw, G. and Rohrmann, Jin L. *Characterization of Cervidpoxvirus isolates from Oregon, California, and Canada*. JOURNAL OF VETERINARY DIAGNOSTIC INVESTIGATION 21:487-492. 2009.

Harpley, P.J. (2009) *"Towards the Future Zoo: The Evolution of Wild Animal-Keeping in Toronto, The Tundra Trek Project"*. The Society for the Study of Architecture in Canada Annual Meeting in Toronto, Ontario, Canada. Ryerson University. May 20 - 24. Presented paper.

Harpley, P.J. (2009) *"Towards the Future Zoo: The Evolution of Wild Animal-Keeping in Toronto - The Tundra Trek Project"*. The Canadian Association of Geographers Annual Meeting in Ottawa, Ontario, Canada, Carleton University, May 26 - 29. Congress of the Humanities and Social Sciences 2009. Presented paper.

Harpley P.J. (2009) *"Tundra Trek Project, Toronto Zoo"*, South-east Asia Zoos and Aquariums (SESA) in Seoul, South Korea. Keynote speaker. Paper August 5-8, 2009.



who's who at the Zoo

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Dr. Ming-Tat Cheung

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Councillor Norman Kelly

Councillor Giorgio Mammoliti

Ms. Sylvie Tessier

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Ms. Cindy Yelle

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Interim Chief Executive Officer

(July - December 2009)

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Chief Operating Officer

Mr. Robin Hale

Executive Director,

Marketing & Communications

Ms. Shanna Young

Executive Director,

Conservation, Education & Research

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Executive Director, Development

Vacant

Director, Planning & Analysis

Ms. Susan Gunton

Director, Facilities & Services

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M.R.C.V.S., Dipl. A.C.Z.M.

Curator, Amphibians & Reptiles

Mr. Bob Johnson, M.Sc.

Curator, Birds & Invertebrates

Mr. Tom Mason, B.Sc.

Curator, Conservation Programs

Mr. David Ireland, M.Sc.

Curator, Fishes

Ms. Cindy Lee, B.Sc.

Curator, Mammals

Ms. Maria Franke, M.Sc.

Curator, Reproductive Programs

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Nutritionist - Animal Nutrition

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Manager, Education (retired October 2009)

Ms. Caroline Greenland

Acting Manager, Education

(November - December 2009)

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Manager, Animal Care

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Manager, Division Administration

- Conservation, Education & Research

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Manager, Computer & Telecom Services

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Manager, Financial Services

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Senior Development Officer

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Manager, Interpretation, Culture & Design

Mr. Paul Harpley

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Ms. Cynthia Shipley

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Mr. Rey deGuzman

Manager, Retail & Rides

Mr. Andre Wattie

Manager, Safety & Security

Mr. Shane Alexander



You CAN make a difference!
Try these simple actions for a healthier world.

- **PARK THE CAR** Walk, cycle and use public transport to reduce emissions. The Zoo has over 12 km of beautiful walkways.
- **FOLLOW THE ZOO'S ENVIRONMENTAL PURCHASING POLICIES** by rejecting excess packaging, selecting products made from renewable resources and considering product lifespans.
- **INSTALL A BACKYARD OR APARTMENT COMPOST UNIT** The Zoo uses compost from staff rooms and on-site restaurants, the Animal Nutrition Centre plus animal manure (ZooPoo) to keep our gardens beautiful.
- **REPLACE INCANDESCENT LIGHT BULBS** with energy-saving compact fluorescents. What a bright idea!
- **AVOID SENDING CHEMICALS DOWN THE DRAIN** Use a "green" cleanser to preserve water quality. Zoo programs like Adopt-A-Pond and The Race to Save the Dace help improve water quality and habitat for wildlife and people.
- **INSTALL A PROGRAMMABLE THERMOSTAT**, which reduces energy consumption at night or when you are not home. The temperature in the Zoo's Administration buildings is controlled this way.
- **USE RECHARGEABLE OR SOLAR BATTERIES**, or better yet, avoid battery-operated items altogether. Drop off your old cell phone for recycling at the Zoo and help us save wild gorilla habitats.
- **AVOID HARSH INDUSTRIAL CLEANERS** Try this safe, effective formula instead: 125 ml (1/2 cup) pure soap, 4 litres (1 gallon) hot water and 60 ml (1/4 cup) lemon juice.
- **USE BARRELS AND DRUMS TO COLLECT RAIN WATER** for your flower or vegetable gardens. Turn your lawn into a wild flower garden. Visit our Butterfly Meadow in the Eurasia area of the Zoo.
- **CONSIDER A HYBRID VEHICLE** Our propane-powered Zoomobiles lower pollution and decrease CO₂ emissions.
- **FRESHEN AIR NATURALLY** with a mixture of 5 ml (1 tsp) lemon juice, 500 ml (2 cups) hot water, 5 ml (1 tsp) baking soda in a spray bottle.
- **FIX DRIPPING FAUCETS**, leaky pipes and running toilets to save gallons of wasted water.

**361A Old Finch Avenue
Toronto, ON M1B 5K7
torontozoo.com**

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information
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**membership services
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email membership@torontozoo.ca**

**Toronto Zoo
Development Division
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