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2007 Annual Report of Taipei Zoo Table of Contents

Words from the Director

It was no easy feat for Taipei Zoo to be awarded the “Benchmark Award”, the highest honor in the 6th Taipei City Government Quality Award of 2007. This goes to show that the brilliant performance of Taipei Zoo over the past few years has been recognized. Receiving this award would not have been possible without the joint efforts of all the staff members in the Zoo, therefore, we have everyone to thank for bringing us this great honor.

Since 1998, Taipei Zoo had been gradually promoting quality management, drawing up operation guidelines and establishing incentive measures to implement the objectives of the establishment of a sound management system, set a standard within the Zoo, expand the content of customer service and conduct trial organizational restructuring in reviving the institution. “Warmth—Respect for Life” and “Harmony—Care for Nature” constitute the core values of Taipei Zoo, in which through clear operation guidelines and continuous quality improvement, we are poised to make Taipei Zoo as the leading regional conservation hub in Asia, the number one recreational spot in Taiwan, and the foremost environmental education center in the Taipei area. From objective management to organizational restructuring, Taipei Zoo is riding the wave to carrying out the mission of our times; we change with the visitors and the visitors change with us, as we expand our operations and services in all possible perspectives—from the “animal’s perspective”, the “staff’s perspective” and the “environment’s perspective”—for Taipei Zoo to become an outstanding world-class zoo.

The business of Taipei Zoo is undeniably complicated, pressing and professional, and the reason for maintaining the quality and performance relies on the common objective the staff have for the Zoo. Over the years, working partners’ endeavor, the conviction for quality learning, and the encouragements from higher levels have spurred the brilliant performance now recognized by people of all circles.

April On April 2nd, I was promoted from Deputy Director of Civil Affairs Bureau, Taipei City Government to Counselor of Taipei City Government and Director of Taipei Zoo. My future work includes the following three key points:

1. Passion for Life and Protection for Ecology

Modern zoos emphasize on the core value of “Respect for Life”, where zoos provide an opportunity for the public to get closer to nature through the presence of healthy animals and well-designed display environments, triggering people’s affection for animals, and

in turn prompt them to care for wildlife animals. With the global awareness of ecological conservation, zoos have been given the great responsibility of ex situ conservation. For example, ex situ conservation for giant pandas is done through the concerted efforts of various zoos to share the risk of species preservation and become bastions for global conservation.

2. Connect with the Globe and Sharing of Resources

Taipei Zoo is one of the few fully-fledged urban zoos in the world. International exchange activities in the zoo have established a good foundation, in which to build on the existing base, we will expand our linkage with the globe by means of issuing academic reports, publication of scientific papers, sharing of conservation experience and resources, to increase exchanges with zoos around the world, thus promoting Taiwan on the international stage.

3. Life Education and Passing of Cultural Inheritance

Conservation education is the most important function of zoos. Taipei Zoo receives over 3 million visitors each year, where study sheets, interpretation boards, summer camps, mobile zoo, energy-saving house, elementary school field trips are ways of conveying the importance of animal welfare, the concept of animal conservation, and the promotion of environmental protection and energy saving in establishing a teaching zoo for environmental education.

“Conservation,” “Education,” “Research,” and “Recreation” are the four functions of a modern zoo. In the future, Taipei Zoo will be actively participating in local animal ecology and habitat conservation work to provide diversified educational activities that relate to what’s going on in the world. We will also enhance the animal science research at the Zoo to promote people’s understanding on animal behavior and animal welfare and to provide visitors with a recreational environment suitable on both the intellectual and spiritual levels.



保育牆開幕



動物園邁入 21 週年園慶

》》 General Information

Established 93 years ago, Taipei Zoo was relocated to the current Muzha site in October 1986. The new Zoo boasts 4 major features: education, research, conservation, and recreational purposes. Taipei Zoo covers a total area of 165 hectares, and is among the world's ten largest urban zoos. In addition to the original four Divisions and six Offices, two more units have been established over the past 3 years to meet new business developmental challenges -- the "Engineering Team" (established in January 2005) and the "Conservation Research Center" (established on December 15th, 2006). As of 2006, there are a total of 323 personnel, including 77 staff members, 209 workers, 12 contract employees, and 33 security guards.

》》 Current Status

Nearly 100 hectares in the Zoo have been developed and utilized, while the remaining areas are reserved as natural secondary forests. A total of 6 Houses (Education Center, Nocturnal Animal House, Penguin House, Koala House, Amphibian and Reptile House, and Insectarium) and 8 Areas (Formosan Animal Area, Children's Zoo, Asian Tropical Rainforest Area, Desert Animal Area, Australian Animal Area, African Animal Area, Temperate Zone Animal Area, and Bird World) are open to the public.

In 2007, the number of visitors to the zoo was 3,370,000, securing the zoo's status as the most popular recreational resorts in Taiwan, and fifth in the world. Now the zoo houses 430 animal species at about 2,909 (excluding insects).

Animal Conservation and Research Efforts

»» Animal Management

(1) Animal Breeding Results

The Zoo is home to 2,909 animals representing 430 species. The number of animals bred in the Zoo was 157 of 53 species in 2007.

● Animal Species Breeding Program

“Conservation” is one of the four functions of Taipei Zoo. In addition to conserving and protecting displayed species and their habitats, ex situ breeding and research efforts targeting endangered species were in place. The Malayan tapirs, the lesser pandas, toucans, the Greater Indian hornbills, Testudinidae, the Gila monsters, the golden-cheeked gibbons, and the orangutans plus a dozen other species are part of the focus species breeding program. A special task force was formed that constitutes members from the Animal Team, the Veterinarian Office, and the Conservation Research Center, jointly researching and collecting reference materials or study reports to build domestic breeding databanks with a view to learning of animal species’ habitual behaviors and previous experience and records. The program also makes sure the source of breeding pairing and to detect and measure their breeding cycles, study their nutrition, behavior and management needs, in order to ensure breeding success in each focus breeding species. In addition, the planning process of animal breeding and conservation techniques was established (records in writing, use of movie clips, as well as time tracking).

This year, successful breeding was seen in Malay bears, white-handed gibbons, Gila monsters, Burmese star tortoises and Malayan tapirs. In particular, after three years of low-temperature stimulation research, two Gila monsters were successfully bred for the first time. On the other hand, first successful breeding of Malayan tapirs had finally been realized since the Zoo was transformed into a government operating zoo ninety two years ago in 1915.

On top of the research and breeding efforts within the Zoo itself, at the same time, it is cooperating with relevant organizations at home and abroad. A Chinese lesser civet conservation and breeding program was jointly launched in conjunction with the Adoption Center at National Pingtung University of Science and Technology. The Zoo is responsible for breeding related work,

in which four Chinese lesser civets from National Pingtung University of Science and Technology were paired and bred with the one Chinese lesser civet in the Formosan Animal Area. The Zoo joined forces with Bronx Zoo in New York in a Burmese star tortoise conservation and breeding project. We are also trying to establish a tortoise working circle for the breeding of Burmese star tortoises and Aldabra tortoises, collaborating with the Department of Animal Science and Technology at National Taiwan University in researching nutrition and reproductive monitoring related to breeding. An ongoing Chinese crocodile lizard conservation program is still in effect where pairing and breeding endeavors are underway.

(2) Animal Health Care and Epidemic Prevention

Since January, the health care system in the Zoo underwent a restructuring, in which an all-purpose medical team providing integrated medical service replaced the existing zone-oriented specialized veterinarian medical attention system. This change in the health care system can be attributed to the research visits to Disney Zoo and San Diego Zoo in the United States two years ago. Ten years ago, well-known zoos in the United States had already changed their health care system from zone-oriented specialized medical attention system to an all-purpose veterinarian medical team providing integrated medical service, aimed at sharing medical experience with the entire veterinarian team to gain experience rapidly and to properly and flexibly allocate human resources for professional and technical development, provide medical services for other related organizations and carry out professional research. For the wild animals held in captivity in the zoo, there are a wide range of species but few animals in each species. In the case of the division of labor in the conventional medical system, many veterinary cases only appear once and seldom come up again, for some specialized veterinarians may not be able to fully put their expertise to work. In addition, since these specialized professional veterinarians rarely have the opportunity to exchange experience with their peers, some medical service could very well head toward a deadlock and never have

any improvement. With this in mind, from this year onwards, in hope to join up the concerted efforts of veterinarians and animal caretakers in the Zoo, we have established a new medical health care system.



● In addition to treating day-to-day medical emergencies and injuries as well as internal diseases, the Zoo has successively completed health checkup, TB testing, chip injection and vaccination for 691 animals according to plan; 1,140 cases of blood test disease analysis; 3,405 cases of excrement and urine tests; 1,297 X-ray examinations for a total of 407 animals. The related animal medical records are as follows:

Taipei Zoo 2007 Annual Animal Medical Record

Unit: Animal (individual)

Treatment Item	Medication	Anesthesia	Vaccination	Health Checkup	Disease Prevention	Injection Drug Delivery	Debridement	Bandaging
Total	2,306	608	366	693	1,882	3,192	625	208
Treatment Item	Vermifuge	Surgery	External medication	Dipping	Examination	Hoof and Claw Trimming	Scaling	Observation
Total	2,349	140	106	112	3,795	274	91	1,377
Treatment Item	Ear marking	Chip injection	Quarantine	Feeding	ShelterSpray change	Input administration	oldrecords medical	Input X-ray images
Total	17	244	256	246	175	93	11	405

Taipei Zoo 2007 Annual Animal Inspection and other Records

Unit: Animal (individual)

Item	Number of Animals			Number of Times
X-ray examination	407			1,297
Clinical Pathology Examination	5,576			31,886
Microbe Examination				94
Admission quarantine	Mammals	Birds	Reptiles	
	64	64	43	
Specimen production	Whole-body stripped production	Skull	Whole-body fur and skin	Identification fur and skin
	10	11	2	1

● This year, the inter-division office established a working circle for giraffe parasite control ad hoc project to monitor and control the parasitic infections of giraffes, and to reduce the frequency of parasitic infection. Concrete practices include increase of feeding baskets at living quarters for animals to gain easier access to food, as well as to avoid pollution; long-term nutrition observation is carried out to make adjustment to the feed, increase use of leaves and reduce the use of fruits. We also introduced oral vermifuge drugs obtained under this ad hoc project.

● A total of 171 animals were quarantined. These animals came from day-to-day confiscation of illegal possession of protected animals, and those given to the Zoo by the public or from inter-zoo exchange. We have helped local governments take in and look after pangolins, Formosan serows, tigers and continuing care for red-crested cranes. In June, we assisted Taipei County Government in the investigation of identifying the unidentified animal attacks on sheep herds at Linkou and other relevant matters. In the same month, we assisted Laboratory Animal Center at National Defense Medical Center in successfully performing uterine fibroids surgery on Formosan macaques at the Quarantine and Rescue Center.

(3) Construction and Renovation

Through the years, Taipei Zoo has been keen on improving animal living space. In 2007, a total of 123 maintenance and repair cases on exhibition and display venues were conducted; green landscaping for 20 exhibition spaces were performed, including exhibits for Formosan sika deers, African elephants, Chapman's zebras, giraffes, and Formosan black bears. These renovations were done to expand the living space of animals, promote animal well-being and reproductive rate and to strengthen animal exhibition environment, thus enhance the quality of display.

(4) Care for Protected Wild Animals

The Zoo's Wildlife Rescue Center is dedicated to take in protected wild animals confiscated by conservation authorities due to smuggling, illegal hunting, selling and displaying of protected wild animals. In 2007, we have helped investigated and seized 101 individuals who had the above-mentioned illegal conduct, providing assistance to the investigation cases while rescuing 1,923 animals representing 125 species. Taipei Zoo continues to assist in the handling of wild animal rescue commissioned by county and municipal government agencies, and goes on taking in and adopting all types of animal species over the years entrusted by the authorities, including bears, big cats, birds (parrots), primates, amphibians, and reptiles, amounting to 2,303 animals representing 233 species. We also conducted animal rescue and adoption related professional seminars and education activities, and received a total of 991 people from 25 tour groups.

(5) Animal Behavior Enrichment Research and Development Project

1. Animal Behavior Enrichment Facilities

This year, the animal behavior division continued to collect information on animal behavior and develop animal behavior enrichment facilities for specific animals to enhance the animal management processes so as to construct a standard of procedure for animal behavior enrichment in Taipei Zoo. The animal behavior enrichment this year focused mainly on primates and carnivorous animals. Concrete results are as follows:

- Set up feeding ladders for chimpanzees
- Provide more climbing vines in the lemur glass exhibit
- Hide food in various locations to guide and increase the range of activity and feeding activities of Malayan sun bears in their exhibition area in the Rainforest Animal Area
- Produce hammocks using fire hose and enrich the feeding diversity for gorillas in the African Animal Area, and provide tires and more canopy facilities in their exhibition area
- Provide gray wolves in the Temperate Zone Animal Area with enriched feeding tools and blood ice blocks, but the enriched feeding tools are more likely to be damaged and buried by the wolves; it is recommended to continue to provide wolves with blood ice blocks in the summer
- Set up floating woods with food-hiding facilities for brown bears in the Temperate Zone Animal Area to increase brown bear foraging activities
- The two new female brown bears in the Temperate Zone Animal Area were given the opportunity to gradually familiarize with one another so that they could be co-displayed, effectively promote the interaction between animal individuals.
- Set up new canopy nets for Asiatic black bears in the Temperate Zone Animal Area, to improve on the animals' tendency to hide at the entrances.
- Set up new brushing passageway on the outdoor activity area for pumas in the Conserved Animal Area, while increasing the complexity of wooden platforms and resting woods in the exhibit.
- Set up new resting woods and hanging planks in the outdoor activity area for the white-handed gibbons in the Conserved Animal Area to increase the complexity of their activity space for them to climb on.
- Set up complex facilities for Malayan sun bears in the Conserved Animal Area, such as resting platforms, used tires, swings and other facilities.
- To eliminate the potential danger of Bengal tigers in the outdoor activity area in the Conserved Animal Area, some of them were fixed on ropes, while visual barriers were added to enhance the space complexity in the exhibition area.
- Provide guidance to summer interns in observing animal behavior and carrying out discussions on research methods, in turn producing Formosan black bear animal behavior enrichment tools for 5 animals.
- In the Formosan Animal Area, habitat enrichment facilities such as plant decorations, resting woods and feeding apparatus were installed for Formosan black bears, Formosan macaques, and Formosan black pigs.

(6) Cooperation with Academia to Promote Animal Education

Taipei Zoo continues to work with the Department of Veterinary Medicine at National Taiwan University in animal clinical technique exchanges. We have maintained a close cooperative relationship with the academia to construct a complete database of the cause of death of the zoo animals for interns and students to use for teaching and research purposes. In 2007, a total of 94 internship opportunities were provided to 872 NTU students for training in pathology.

Other co-operations with the academia with relevant agencies to promote education are as follows. In June, we co-organized a wildlife medical treatment and rescue course with the Bureau of Animal and Plant Health Inspection and Quarantine, Keelung Branch; in early June, we helped the Bureau of Animal and Plant Health Inspection and Quarantine, Council of Agriculture, and Department of Veterinary Medicine of National Taiwan University in holding “2007 Animal Disease Diagnosis Seminar” in the Zoo Auditorium; in September, we travelled to Kaohsiung Municipal Institute for Animal Health to carry out the Bird Rescue Seminar under the wildlife rescue project of Council of Agriculture; in October, we went to the Office of Animal Health Inspection and Quarantine at Taitung County to carry out the bird rescue fracture operation courses under the wildlife rescue project of Council of Agriculture; in November, Taipei County Fire Bureau came to Taipei Zoo to conduct wild animal capture courses; in the end of November, Chichi Endemic Species Center First Aid Station invited veterinarians in Taipei Zoo to guide the surgery of compound fracture fixation.

(7) Organizing Professional Seminars and Staff Education Training Courses

1. Professional Seminars

- In June, “2007 Animal Disease Diagnosis Seminar” was held in the Zoo Auditorium in collaboration with Bureau of Animal and Plant Health Inspection and Quarantine, Council of Agriculture, and Department of Veterinary Medicine at National Taiwan University.
- In June, Taipei Zoo co-organized “Seminar on Wildlife Exhibition Management and Medical Teams in Zoos” with National Museum of Marine Biology and Aquarium at Pingtung, which was also a member gathering for the Aquarium Association.

- In conjunction with Taichung City Animal Protection and Health Inspection Center and Tainan City Animal Health Inspection Institute, we co-organized “Seminar on Animal Protection Lesson Plan” on October 2nd, 4th, and 5th in northern, central and southern Taiwan, respectively, with approximately 100 participants.
- Together with Taiwan Endemic Species Center and Pingtung Technology Center, we jointly organized the “Seminar on Formosan Black Bear Research and Protection.”

2. Staff Education and Training

To enhance the quality of professional animal caretakers, to promote and implement the concept of lifelong learning, to enhance the interactions and experience exchange between animal administrators, and to promote the professional operation of development and research in the Zoo, we continued to offer professional training for staff members. Course content and directions were designed for gaining professional knowledge on animals, technical application expertise, exchange and handing down of management experiences.

In addition to inviting experts and academics in the field to teach relevant professional skills, we also organized professional briefings for Zoo workers and offer a channel for exchange of management experience. In 2007, 16 professional events were held on topics related to animal professions, in which we invited external experts and scholars to offer their expertise in 9 events. 11 experience exchanges were held for zoo caretakers to put forward and share their animal rearing experiences with their co-workers. We also held 23 professional animal medical training events, where we invited external experts and scholars in four events.

(8) Introduction and Exchange of Animals

Through the introduction and exchange program at the Zoo, we have introduced and send out animals that are well bred at home and abroad on a project basis, in view of enriching the educational exhibits in Taipei Zoo, and to renew the blood relationship of the animals, ensuring the implementation of animal welfare and protection of wildlife animals. In 2007, we introduced 71 birds representing 19 species, 24 mammals representing 10 species, and 24 amphibians and reptiles representing 14 species. Major results are as follows:

1.Domestic Exchanges:

- Zhaofeng Farm Wild Boar Exchange Program: Taipei Zoo used 0.2 color-spot boars and 3.3 wild boars in the Formosan Animal Area in exchange of 0.2 Taoyuan boars. This program was tailor-made for the “Year of the Pig Special Exhibition” in the Children’s Zoo.
- Giving Hsinchu Zoo Formosan Reeve’s Muntjac and African spurred tortoise as presents: on January 30, after environmental assessment, Taipei Zoo decided to give Hsinchu Zoo 5.5 Formosan Reeve’s Muntjac and 6 African spurred tortoises as presents to enrich the educational exhibition at Hsinchu Zoo.
- Exchange program of Common Squirrel Monkey with Leofoo Village Zoo: Taipei Zoo used common squirrel monkeys (5

males and 8 females) in exchange of one pair of Lynx from Leofoo Village Zoo, in order to enrich the educational exhibitions of both zoos.

- Exchange program of Lions with Leofoo Village Zoo: Taipei Zoo used one pair of gray gibbons and six African spurred tortoises in the Conserved Animal Area in exchange of African lions (one male and two females) to enrich the diversity of display species.
- Collaboration Project between Kaohsiung Shoushan Zoo for Breeding and Exhibition: the two zoos exchanged Formosan black bears for the purpose of conservation breeding. At the same time, Taipei Zoo gave a pair of black swans as a gift to enrich the educational exhibition at Kaohsiung Shoushan Zoo.
- Exchange Program of Nicobar pigeons with Nanyuan Farm: in May, Taipei Zoo used ten Nicobar pigeons in exchange of a pair of red jungle fowls, a pair of green jungle fowls, one pair of grey pheasant and six Chinese bamboo-partridges to enrich the diversity of display species.
- Animal Exchange Program with Leopard King Safari Zoo: Taipei Zoo introduced 48 western crowned pigeons representing 18 species from Leopard King Safari Zoo, while we provided 45 animals representing 4 species such as Aoudad sheeps in order to enrich the educational exhibits in the two zoos. The exchange list is presented in the following table:

Animal Exchange List between Taipei Zoo and Leopard King Safari Zoo

Common Name	Scientific Name	Number
Western crowned pigeon	<i>Goura cristata</i>	4
Green Turaco	<i>Tauraco persa</i>	3
Toco Toucan	<i>Ramphastos toco</i>	2
Wood Duck (Carolina Duck)	<i>Aix sponsa</i>	8
Swinhoe’s Pheasant	<i>Lophura swinhoii</i>	6
Ostrich	<i>Struthio camelus</i>	5
European Legless Lizard	<i>Ophisaurus apodus</i>	1
Common pine snake	<i>Pituophis melanoleucus</i>	1
Pueblan milk snake	<i>Lampropeltis triangulum campbelli</i>	2
Rainbow boa	<i>Epicrates cenchria</i>	1
Black Mexican King Snak	<i>Lampropeltis getula nigrita</i>	3
Nelson’s Milksnake	<i>Lampropeltis triangulum nelsoni</i>	3
Suriname Toad	<i>Pipa pipa</i>	1
Pig-nosed Turtle	<i>Carettochelys insculpta</i>	2
Grand Anglehead lizard	<i>Gonocephalus grandis</i>	2
D’Albert’s water python	<i>Leiopython albertisii</i>	1
Malagasy giant hognose snake	<i>Leioheterodon madagascariensis</i>	2
False gavial	<i>Tomistoma schlegeli</i>	1
Barbary (Aoudad) Sheep	<i>Ammotragus lervia</i>	20
Nicobar Pigeon	<i>Caloenas nicobarica</i>	10
Ostrich	<i>Struthio camelus</i>	5
Sheeps		10

2. International Exchanges:

- Exchange Program with Seoul Zoo in Korea: on July 4th, Taipei Zoo sent a pair of Grey Crowned Cranes and a pair of black swans to Seoul Zoo.
- Exchange program with Leipzig Zoo in Germany: Leipzig Zoo in Germany was informed that Taipei Zoo is well-experienced in rearing pangolins, and had been enthusiastically keeping in contact with Taipei Zoo and sent caretakers to Taipei Zoo twice to learn about the keeping, medical care, food preparation for pangolins. Through bilateral consultation, Taipei Zoo sent one pangolin in December to Leipzig Zoo in Germany. By this pangolin exchange, we have promoted Taiwan endemic species to Germany as well as allowing Germany to see Taiwan's efforts in animal conservation.

Statistics of Animals Reared in the Zoo

Category \ Time	Mammals		Birds		Reptiles		Amphibians		Fish		Total	
	species	individuals	species	individuals	species	individuals	species	individuals	species	individuals	species	individuals
Beginning of Year	134	1002	153	1,218	130	598	28	163	17	177	462	3,164
End of Year	123	975	139	923	130	673	26	161	14	177	430	2,909

» Animal Adoption Project

It has been five years since the Animal Adoption Project was first launched in February 2003. This project has provided the public to take part in wildlife animal conservation, as they are given the opportunity to support conservation work. By gathering the public in promoting biodiversity conservation, this project has effectively assisted Taipei Zoo in the enhancement of conservation education and animal welfare.

(1) Animal Adoption Achievements--Individual Adopters

The total accumulated number of individual adopters has reached 6,572 persons, with an annual increase of 1,108 persons in 2007 (671 animal nannies, 437 animal treasurers). To inform the adopters about the Zoo's latest activities, management strategies, zoo keeping experiences, and animal education, weekly Zoo e-Paper and Taipei Zoo Quarterly are issued to establish a platform for knowledge sharing.

(2) Animal Adoption Achievements--Group Adopters

The total accumulated number of group adopters welcomed 13 new organizations, with an annual revenue of \$NT 6,600,253, effectively contributing to the promotion of international exchanges, various conservation education projects and improvements on animal welfare. Achievements are listed as follows:

- Daikin Air-conditioning Armor Protection:

Daikin Inc., Ltd. continues to put great concern on pangolin conservation work, as it has donated air conditioning facilities and provided related equipment for installation works to offer pangolins a living environment kept at a constant temperature. Their support has helped out a series of research into nutrition improvement, mother and child interactive bonding, analysis of diseases and breeding studies.

- Buggy Magnifying Glass:

the world of insects can be awfully strange and sometimes ugly, but it can also be very dangerously beautiful! Through "Buggin' With Ruud" program on the Animal Planet Channel, "Let's Find Some Bugs" activities, Insectarium live animal display and "Insect Expert Challenge Games," Taipei Zoo interacts with the public through games and activities to promote the knowledge of insects, so that the general public can catch a glimpse of the complex yet colorful insect world!

- The Butterfly Story:

in order to make available to the people in Taiwan the dire impact of climate change on the island, the Zoo began and realized the conceptual framework in using butterflies as indicator species for long-term monitoring and investigative research. Hotai Motors has been actively involved in providing resources to help in the long-term research project "Climate Change on the Ecological Impact of Butterfly Populations in Taiwan" and has co-organized activities such as butterfly watching tours, teacher training camp, and other educational activities, all in the endeavor to safeguard Taiwan's butterfly resources for a sustainable future.

- Building a Green Zoo with Recycled Used Toner Cartridges:

making an effort on ecological conservation, the well-being of the earth has become a most important matter of every human being who is living on this planet! Hewlett-Packard Development Company has not only been giving practical support for wetland conservation works, it has held a series of environmental education and shoot-and-print activities, inviting children from Northern Region Children's Home to visit Taipei Zoo and the Wetland Park. The Company has also held three wetland and Taipei grass frog workshops to increase people's awareness on wetland ecological conservation issues. At the same time, tourist benches made by recycled used toner cartridges were given to the Zoo as donations, so that people can understand that by recycling they can do more for the environment and make it "better" and "greener."

- Animal Adoption in Everyday Life:

VIBO Telecom realized that the key to sustainable ecological conservation lies in each and every human being on earth. This is why in addition to sponsoring animal welfare improvement and conservation education promotion, at the same time, VIBO cooperated with Taipei Zoo in launching "3G Digital Zoo," which integrates fun and education in one package, so that everyone can become animal ecological observers while developing an understanding of ecological conservation concepts, in turn reaching the ultimate goal of ecological sustainability.

- Treasured Formosan Leopard Cat:

Formosan leopard cat's calm and cool-headed nature is in sync with the investment philosophy of JPMorgan Asset Management, thus JPMorgan has joined into the line of corporate adoption, participating in animal conservation charity activities. In September, JPMorgan Asset Management and

Taipei Zoo co-held a specially designed parent-child carnival, in which we invited well-known children's performing group to give a live performance, one musical play that portrays the ecological difficulties faced by Formosan leopard cats. Through dancing and singing, as well as interactions with the crowd, children can establish the concept of caring for animals starting from early days to take root in animal conservation work.

● Hope of the Flamingo:

Pai Shih Cultural and Educational Group adheres to the idea that the present is the cornerstone of changing the future, as it has continued to adopt flamingo species, encouraging more parents and kids to form a closer bond to nature, make contact with animals, so that children can learn, experience and respect all living things and the way of life for all to live in harmony.



(3) Animal Adoption Activities

In addition to putting forward animal adoption promotional activities during festivities, we have planned exclusive activities for adopters to participate in, giving adopters a chance to interact with each other. A total of six adoption events were held throughout the year, in which sincere gratitude goes to groups and individuals who support wildlife conservation research by adopting animals, and to share their animal conservation experience and results through the activities.

Activity Type /Date	Name of Activity	Co-organizers
Animal Adoption Activities		
02/11	Pai Shih Gifted Mathematics Education and Adoption Activities	Pai Shih Cultural and Educational Group
02/22-25	Treasured Pig Greets Flamingos” Parent-Child Learning Camp	
04/07	Taipei Zoo Week Series Activity--Happy Kids	
05/06,13,20	“Medical Journey in Taipei Zoo” Parent-Child Camp	
06/17-19	Giant Panda Animated Film Screening (27 shows)	Taiwan Access Inc.
08/26	Preview screening of Movie “Komaneko”	Atom Cinema Co.
Animal Adoption Achievement Activity		
10/29	21 st Anniversary of Taipei Zoo’s Relocation	
Animal Adoption Promotion Activities		
02/18-25	“Good Luck in the Year of the Pig”	
02/10	“Buggin’ With Ruud” Preview and Press Conference	Animal Planet Channel
06/30-07/01	“HP Shoot-and-Print Cool Summer Party”	Hewlett-Packard Development Company
07/07-08,14-15	“HP Shoot-and-Print Cool Summer Party”	Hewlett-Packard Development Company
07/21	TOYOTA “Butterfly Image” Activity	Hotai Motors
09/15	JPMorgan Formosan Leopard Cat--Family Zoo Day	JPMorgan Asset Management



(4) Animal Adoption Conservation Results

Project Type	Name of Project
Animal Welfare	Interpretation Education and Environment Construction Project for Formosan Black Bears
	Management and Medical Assistance of Zoos in Asia
Conservation Research	Conservation Research Project for Formosan Black Bears
	Phylogenetic Relationship Construction and Conservation Genetic Application for Formosan Black Bears
	The Construction and Application of the Genetic Relationships of Formosan Serows--Using Ribosomal DNA Sequencing Analysis
	Prevention and Cure for Parasites in the Digestive Track of Formosan Serows and the Determination of the Digestive Ratio of Feed Surface
	Research on the Physiology, Ecology, Pathology and Rearing Method for Pangolins
	Conservation Project for Taipei Grass Frogs
	Conservation Project for Terrestrial Ecology at Green Island
	Asian Elephant In Situ Conservation Project
	Investigation on Diseases of Wildlife Animals in Northern Taiwan
	Sex Determination and Reproduction of Birds of Prey
Environmental Education	Habitat Conservation Project for Farmland Green Tree Frog
	Planning and Installation of Environmental Education Interpretation Systems at the Insect Valley in the Insectarium of Taipei Zoo
	Habitat Construction Project for Bats
	Conservation Wall Interpretation Facilities and Conservation Education Visual Image Facilities at the Entrance of Formosan Animal Area

»» International Cooperation and Exchange

Zoos nowadays are the strongholds of wildlife conservation and environmental education, as they are one of the vital strategies for the conservation of wildlife biodiversity in the world of ex situ conservation. The development of operations at Taipei Zoo also aims for the preservation of species and respect for life and by means of international collaboration to build up specific actions for international exchange. The Zoo also obtains health species through a systematic and planned cooperation and through programs of borrowing animals for breeding, giving them as gifts, or mutual exchanges, and by way of international cooperation, species conservation breeding programs and ex situ conservation projects to achieve the purpose of sustainable biodiversity conservation, establishing international status. Major international promotion achievements in 2007 are as follows:

(1) Participating in International Conferences

In terms of international affair exchanges, in addition to participating in the Lineage Book Project of ISIS (International Species Information System), International Zoo Yearbook, ARKS (Animal Recordkeeping Systems) with various zoos in a joint effort to establish animal databases, Taipei Zoo continued to take part in zoo-related organizations all over the globe, such as World Association of Zoos and Aquariums (WAZA), South East Asia Zoos Association (SEAZA), International Zoo Educators Association (IZE) to collectively promote the conservation of regional animals. We also participated in specific professional and technical seminars to exchange and share our experiences. In 2007, 13 zoo staff members attended 7 international conferences.

Month	Name of Conference	Number of Attending Zoo Staff Member
02	Attended "Seminar on the Impact of Agriculture in the Changing World on Amphibians and Reptiles" in the United States	1
05	Attended the "1 st International Seminar on Bats of South East Asia" in Thailand	1
05	Attended the "Professional Report on Helicobacter pylori in Serval (<i>Leptailurus serval</i>)" of the Annual Meeting of European Association of Zoo and Wildlife Veterinarians	1
08	Attended the "8 th International Conference on Environmental Enrichment" in Vienn	1
08	Attended the "1 st Asia Zoo Educator's Conference" in Singapore	4
08	Attended the "62 nd Annual Meeting of World Association of Zoos and Aquariums" in Hungary	2
09	Attended the "16 th Annual Meeting of South East Asia Association of Zoos and Aquariums" at Kuala Lumpur National Zoo in Malaysia	3
Total	7 Conferences	13 People

(2) Observation Visits and Exchanges

To enhance the quality of zoo professionals and increase experience sharing and to correspond to relevant special operations in Taipei Zoo, we sent staff members to other zoo-related units in the world for observation visits and exchanges. This includes the visit to Singapore Zoo in early January, where we observed and learned about the simple, easy-to-understand and vivid colored direction signs, the diversified and high-quality interpretation boards and system, and the zookeeper's animal feeding commentary show. On the other hand, a senior veterinarian was sent to Beijing Zoo in Mainland China for a three-month professional exchange program. In response to the Shin Kong Special Exhibition Hall that will soon be completed and the plan to introduce the giant panda, we sent staff members to Sichuan Giant Panda Research Center at Wolong Nature Reserve in Mainland China to learn about breeding management, nutrition and reproductive health care techniques for giant pandas, in order to serve as a reference for constructing related operating procedures in the future when the giant pandas are introduced to the Zoo.

Month	Name	Number of Attending Zoo Staff Member
01	Participating in municipal benchmarking quality learning; visiting well-established enterprises and government departments with high quality management in Japan	2
01	Observation visit to Singapore Zoo and Night Safari and Jurong Bird Park	6
03	Exchange program with veterinary staff at Beijing Zoo in Mainland China	1
05	Visiting Sichuan Giant Panda Research Center at Wolong Nature Reserve in Mainland China for giant panda rearing facility and medical personnel training program	3
05	Participating in animal training and medical training seminar and serving as lecturers in Shanghai, Mainland China	2
09	Taking part in the inspection program of well-known tropical rain forest and conservation research center in Asia	3
11	Serving as lecturers in animal training workshops at Zoo Negara in Malaysia	3
12	Visiting Xishuangbanna Reserve in Yunnan, Mainland China--Asian Elephant in situ Conservation Project	2
12	Participating in the municipal quality of Singapore's National Quality Award benchmarking study	3
Total	9 Events	25People

In addition, on the basis of international zoo exchanges, Taipei Zoo also welcomed and received other zoos in observation and exchanges:

In May, veterinarians at Hong Kong Ocean Park came to Taipei Zoo for a one-week visiting research. In August, veterinarian at Beijing Zoo and the director of the Reptile House came to Taipei Zoo for a period of 45 days for professional exchanges. Tama Zoo and Hirakawa Zoo in Japan came to visit the exhibition halls and the animal behavior enrichment facilities, as well as sharing the behavior enrichment examples in their zoos. Staff members from Leipzig Zoo in Germany came to Taipei Zoo once again in December following their 2006 visit to learn about rearing, food and medical care, and other techniques for taking care of pangolins. Other than refining the rearing and management techniques for pangolins, they also exchanged their experiences with our zookeepers. They also accompanied "Toufen," the pangolin given by us in taking the plane together back to Germany. Through pangolins, we shared with the people in German the fruitful results of conservation efforts in Taiwan, as well as introducing endemic species of Taiwan to them.

(3) Sister Zoo Exchanges

In June, two staff members from a sister zoo in Sai Kung visited us, where they gave an interim report on the Gibbon Conservation Project sponsored by Taipei Zoo through the animal adoption program, and observed the Zoo in learning and sharing animal behavior enrichment facilities and examples. In November, Seoul Zoo in South Korean sent their nutritionists and veterinarians to Taipei Zoo, where our staff directed and guided them in a one-month professional learning and experience sharing.

(4) Others

1. Joining the Amphibian Ark established by CBSG/WAZA in becoming involved in the promotion of international amphibian conservation.

2. Taipei Zoo had co-organized a Butterfly Eco-exhibition with Munich City in 1998. In 2007, we collaborated with Nuremberg Zoo, a sister zoo in Germany, providing 400 butterfly pupae endemic to Taiwan to participate in the Nuremberg Zoo's "World Insect Exhibition" from mid-December in 2006 to April 15 in 2007. This butterfly exhibition left a deep impression on the local public and media, letting them understand the rich resources of butterflies in Taiwan, successfully utilizing Taiwan's butterflies to expand Taiwan's external relationships with foreign countries.

■ Asian Zoo Animal Management and Medical Assistance Program ■

Veterinary Training Workshop at Shanghai Zoo



《Program Content》

In view of saving the ecological system of planet Earth, cooperating in conservation works without borders, and to actively participate in international animal conservation affairs, improve animal medicine and breeding management in Asia, Taipei Zoo dispatched veterinarians and animal keeping professionals to other zoos in Asian that had animal-related professional and technical needs in offering courses in animal health care and rearing management. This program was launched with the intention of establishing good international relations, promoting international animal conservation knowledge and skills and enhancing the well-being of animals.

Taipei Zoo is well received by many zoo professionals in Asia owing to its excellence in animal rearing management and techniques, as well as the scale and top-notch facilities of animal health care. In 2006, 5 veterinarians and nutritionists were invited to serve as speakers at the South East Asia Zoo Veterinary Training Workshop, and in the process, we realized the profound needs for animal management, health care, and animal training in the Southeast Asian region, including Mainland China and South Korea. The Zoo should make full use of its professional capability and stretch out to zoos in South East Asia that are in need of guidance, so as to establish a leadership position, and in real terms to help these zoos to promote their wildlife veterinary medical techniques and gain related medical knowledge for animals, on top of improving animal rearing management quality, enhancing animal health care efficiency, and promoting the well-being of animals. The training program in 2006 was a big success with high opinions from zoos across South East Asia, in which SEAZA members marveled at Taipei Zoo's achievements in veterinary health care.

This year, staff members in Taipei Zoo were speakers at Veterinary Training Workshop at Shanghai Zoo in Mainland China, and Courses for Zoo Animal Training at Zoo Negara in Malaysia.

《Results》

● Veterinary Training Workshop at Shanghai Zoo

Following the invitation in 2006 by Beijing Zoo to organize zoo animal training workshops for the North China region, which was very well received; this year, we upheld our professionalism aiming to enhance professional animal health care and rearing management techniques, and were once again invited to Shanghai Zoo to organize animal training courses and give talks about behavior enrichment, with a total of 70 attending participants. Through talking about the experience of case handlings, we shared our productive results in animal medicine, training and behavior enrichment, which was of great assistance to Shanghai Zoo in making diagnosis and giving treatment, improve animal welfare and medical techniques. We hope the workshop has strengthened and established a good relationship with zoos in Mainland China, so that professional exchanges could be facilitated.

In addition, since Shanghai is the waterfront gateway of China with endless number visiting groups each year, both domestically and from abroad, it serves as the window for zoos in western countries to enter into zoos in Mainland China, therefore it is the benchmark zoo for other zoos in the country, which will no doubt help Taipei Zoo in conducting professional learning and exchanges with other international zoos.

● Courses for Zoo Animal Training at Negara Zoo in Malaysia

To maintain and strengthen effective exchanges with Southeast Asian zoos, to facilitate future exchange and introduction of zoo animals, and to enhance the veterinary technical knowledge in Southeast Asian zoos, thus promote regional conservation education, from November 19 to 21 in 2007, three veterinarians from Taipei Zoo went as speakers to Negara Zoo in Malaysia for animal training and environmental enrichment courses, with 54 participants attending from 13 zoos and aquariums in Malaysia.

Through practical animal training and operation exercises, this training program enlightens zookeeper's interest towards animals and through healthy interactions to enhance the quality of animal management, increase opportunities for close observation of animals, so as to obtain essential information on the animals, in turn reduce medical costs, achieving an overall improvement on animal well-being and the quality of educational display.

» Research and Development Projects

Research projects for fiscal year 2007 include: 1 City Government annual project, 9 Central Government commissioned projects, and 16 staff research projects. For fiscal year 2006, all of 13 research projects and staff researches were awarded by Taipei City Government, including 2 first prizes, 7 second prizes, 9 third prizes, and 1 special award.

List of City Government Research Projects for Fiscal Year 2007

No.	Project Title	Research Unit
1	Research on foraging and habitat choice of forest bats in Taipei Zoo	Conservation Research Center

List of Staff Research Projects for Fiscal Year 2007

No.	Project Title	Researchers
1	Animal training development and promotion in Taipei zoo	Chang Ming-Xiong, Chen Xiang-Fan, Lin Hua-Qing
2	Behavior patterns and use of space by captive Eurasian otters	Cao Xian-Shao, Chen Xiang-Fan
3	Hematology and serum chemistry reference value of captive Formosan serows	Guo Jun-Cheng
4	Using multi-primer target polymerase chain reaction method to more accurately and easily identify the sex of birds	Wang Li-Qian, Jin Shi-Qian
5	Impact of feed adjustments of Formosan pangolins on fecal bacteria	Jin Shi-Qian, Yang Xi-Wen, Lian Zhen-Ye, Chen Jun-Lin
6	Impact of adjusted ratio in forage (C:F) in the foraging patterns and manure of Formosan serows	Yang Xi-Wen
7	Feed and nutrition of amphibians and reptiles in Taipei Zoo	Yang Xi-Wen
8	Terrestrial vertebrate diversity in natural forests and plantations at Hsitou in central Taiwan	Hsieh Hsin-Yi
9	Wild vertebrate and plant biodiversity at Feng Huang Natural Education Park	Hsieh Hsin-Yi
10	Three new records of dragonflies in Taiwan	Tang Hsin-Jie, Chen Ci-Long
11	History and diet of captive pangolins	Yang Xi-Wen, Jin Shi-Qian
12	Preliminary Study on the Change of Landscape and Ecology in Sitou Tract of NTU Experimental Forest	Hsieh Hsin-Yi
13	Sexing a wider range of avian species based on two CHD1 introns with a unified reaction condition	Wang Li-Qian, Jin Shi-Qian
14	Involving local communities in amphibian conservation: Taipei frog <i>Rana taipehensis</i> as an example	Lin Hua-Qing, Cheng Li-Yi, Chen Bao-Zhong, Chang Ming-Xiong
15	Diurnal Retreat Site Selection by the Arboreal Chinese Green Tree Viper (<i>Trimeresurus s. stejnegeri</i>) as Influenced by Temperature	Lin Hua-Qing
16	Ventral coloration differentiation and mitochondrial sequences of the Chinese Cobra (<i>Naja atra</i>) in Taiwan	Lin Hua-Qing

List of Central Government Commissioned (Funded) Projects for Fiscal Year 2007

No.	Subsidized Project Title	Funded by	Executed by
1	Business plan for protected wild animal rescue stations and adoption centers	Forestry Bureau	Conservation Research Center, Veterinary Division
2	The establishment of wildlife animal product morphology identification laboratory in Northern Taiwan (11)	Forestry Bureau	Conservation Research Center
3	Production of wildlife animal safety operation videos and confiscated ivory preservation management	Forestry Bureau	Veterinary Division
4	Conservation biology research on Watanabei lanternfly (2)	Forestry Bureau	Education Division
5	Genetic diversity research on point-scaled pit vipers in Taiwan (III)	Forestry Bureau	Conservation Research Center
6	City administration management plans for animal protection	Council of Agriculture	Education Division
7	Study on population genetic structure and echolocation calls of cave dwelling Formosan leaf-nosed bats and common bentwing bats	National Science Council	Conservation Research Center
8	Project of using Insect Eco-park for promotion of biodiversity conservation and environmental education	National Science Council	Education Division
9	Living Science: Bat Sharing--creating habitats for bats and natural science education promotion project (2008 Science Season)	National Science Council	Conservation Research Center

Environmental Education and Promotion

» Diverse Collection of Animals and Eco Exhibits



We have been actively creating a natural display of ecological exhibition environment, simulating and strengthening natural animal habitats, improving animal welfare and quality of exhibition service, in addition to the continuous green landscaping of exhibition areas, animal shelter renovations and green landscaping of zoo environment, in order to offer visitors exhibits that are natural in essence yet diversified.

● Aquatic Botanical Garden - Ecological Balance in Your Hands

After the Animal Festival in 2006, "The Wizard of Oz" site was selected to hold "Rainwater Park and Aquatic Plant Special Exhibition." To continue the theme of environmental education and diverse display of aquatic plants, we added more exhibition content to the "Aquatic Botanical Garden" this year, including more than 100 species of aquatic plants in Taiwan. Visitors who are fond of aquatic plants take their time in enjoying and appreciating one of the multi-functional wetlands that takes on water purification, conservation, landscaping, food and teaching, among other functions. This Garden is a health package offered by the Zoo, a place cultivated by the gardeners and the concepts of biodiversity, where the results allow everyone to learn together and share their experiences through the understanding of the aquatic plants and their ecology and functions.

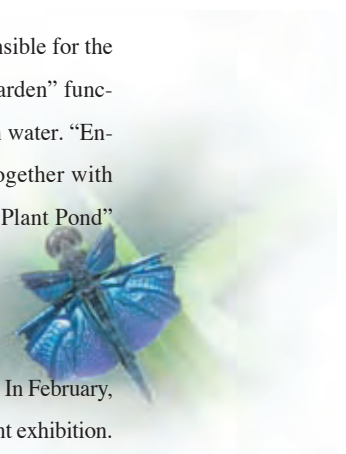
Aquatic Botanical Garden also has a super mission--it is responsible for the purification of water used by animals. "Purification Botanical Garden" functions to remove water impurities and increase dissolved oxygen in water. "Endemic Plant Pond" houses a variety of rare plant species, and together with "Landscape Plant Pond," "Edible Plant Pond" and "Educational Plant Pond" forms the five major sections of the Garden.

● Eco - exhibition of Diverse Plants

We constructed designated interpretation areas for plant exhibits. In February, to tie in with the Year of the Pig theme, we put forward a special plant exhibition. In April, we completed the children exhibition area for nectar source plants. In June, in coordination with the Animal Festival, we used recycled water in the construction of Aquatic Botanical Garden. In August, the original gray wolf shaped flower slope was turned into a tropical rain forest crop area. We compiled and made use of existing information to build an interpretation database for exhibition plants, while we also updated 170 plant interpretation boards to help visitors learn about the diverse facts of plants.



教學植物池



» Establishment of Environmental Education Area

● Water Conservation and Energy-saving Environmental Education Area

Taipei Zoo continued to promote water conservation and energy saving as well as recycling to the public, as we are gradually turning the entire Zoo into an environmental education area with first-rate hardware and software facilities. In 2007, we set up a water conservation and energy-saving team to promote the energy-saving measures in the Zoo. In terms of water conservation, time controllers were added for the water supply reservoirs and water pipes in the Temperate Zone

Animal Area, fences and roofs were built for the brown bears, an additional five-ton rain water storage tank was placed in the Reptile House and a 20-ton rain water storage pond was established at the exhibition area of the Energy-saving House. We also made improvements on the rain/used water recycling pipeline to increase the efficient usage of rain and used water. In addition, the pool water in the exhibition area of mallards and pig-tailed macaques in the Rainforest Zone are used and gathered into exhibition pool of Sarus cranes, in which the overflow water will be recycled into the Aquatic Botanical Garden for purification by nature and then re-used.

In terms of energy saving, Penguin House (including Temperate Zone Animal Area) took on several energy saving measures, including control of air-conditioning temperature, time control settings and the reduction of the load of air conditioners. By doing this, we saved 15,000 kilowatt-hours each month on electricity.

In the promotion of water conservation and energy-saving education, the water and energy saving facilities and rain/used water utilization areas in the Zoo were divided into four zones, A, B, C and D. We completed water conservation and energy-saving interpretation standard outline for zoo tour guide and interpretation to explain to visitors when they come to see the water and energy saving facilities, with the aim to promote the achievements in the establishment of this environmental education area. At the same time, we organized "Let's Go Penguin" parent-child camps, where trained docents explain the living environment, air conditioning, and the reuse of recycled water in black-footed penguin exhibition pools in the Penguin House, promoting the concept of water conservation and energy saving in ecological conservation education.



● Animal Excrements as Compost, Recycling for Reuse

Emphasizing on recycling and reusing used materials, we recycled the excrements of large herbivores and produced 312 tons of compost more than enough for plants in the Zoo to use. This action has in turn improved the soil under the shrubs in the Zoo and reduced the cost needed for chemical fertilizer.

● Zoo's Garbage Continues to be Taken Care of by Contractors

There are a total of 159 recycling bins and composite plastic recycling bag units. We strongly encouraged garbage sorting in the Zoo. A total of 48,824 kilograms of waste was recycled in 2007.

● Promoting "No Smoking Model Zone"

In order to create a quality visiting environment and recreation area, Taipei Zoo continues to promote no smoking in public areas by asking people not to smoke and increasing the number of "No Smoking" signs. In April, in view of the "No Smoking Model Park" policy, we joined forces with the Health Service Center in Wenshan District in creating a "No Smoking Zoo" and chose the endangered "Formosan Sika Deer" as the spokesanimal for the 400 plus species of animals in the Zoo, promoting the concept of "no smoking in the Zoo." We set up 27 small-sized no smoking signs and placed them in flower beds, and large signs in Temperate Zone and African Animal Areas as well as at the shops at the entrance. This preliminary completion of a No Smoking Zoo set up welcomes the public to experience firsthand a new world non-smoking fun.



» Educational Promotion Activities

● Enhancing and Promoting Zoo's Regular Educational Visits

A total of 31,622 fourth grade students from 131 elementary schools in Taipei City participated in the educational Zoo visits; while 770 persons attended the 22 parent-child learning camps. 325 groups (15,711 persons) made reservations for guided tours. In addition, we continued to carry out holiday stationary guides, scheduled zoo keeper interpretation service, and put out bilingual interpretation boards.

● Promoting Themed Educational Activities Both Inside and Outside the Zoo

In conjunction with major holidays and specific themes, educational activities were designed. We continued to hold a series of activities such as the Annual Animal Festival "ICE ZOO--Love for Taipei Zoo" in which through these kind of interactive activities, visitors can learn more about animals and foster the concept of cherishing nature and animal conservation.

● Themed Educational Activities

Date	Name of Activity	Co-organizers
01/16	Mobile Zoo	Taipei Zoological Foundation
02/22	Topic Speech--"My Story, My Smile"	
02/22-25	Winter Break Parent-child Learning Camp--"Treasured Pig Greeted Flamingos"	
03/03	Mobile Zoo	Taipei Zoological Foundation
03/04	2007 Chinese New Year Blessing Celebration and Animal Lantern Riddle Activity	Association of Friends of Taipei Zoo
03/13	Zoo Week Series --Press Conference of the Opening Ceremony of 2007 Children's Month in Taipei	Department of Education, Taipei City Government
03/13	Zoo Week Series --"Run for a Better and Healthy Taipei": Road Run of Students in Daan and Wenshan District	Department of Education, Taipei City Government
03/14	Children's Zoo Rice Transplanting Activity	Bojia Primary School and Farmer's Association of Shenkeng
03/26-04/08	Zoo Week Activity Series	
03/26-04/08	Happy Kids--Penguin Encyclopedia Photo Activity	Warner Bros. Entertainment, Inc
03/31-04/08	Happy Kids--Happy Feet Animated Film Activity	Warner Bros. Entertainment, Inc
03/31	Happy Kids--Conservation and Protection of Gorillas	Association of Friends of Taipei Zoo
04/01	Happy Kids--Sharing of Warmth Charity Event	Zhongyi Foster Home
04/01	Happy Kids--Face to Face with Mumble and Ramon from Happy Feet	Warner Bros. Entertainment, Inc
04/04-04/30	Happy Kids--Happy Feet Penguin Coloring Work Exhibition	Warner Bros. Entertainment, Inc
04/05-08	Happy Kids--"Let's Go Penguin" Parent-Child Learning Camp	
04/01	Mobile Zoo	Department of Education, Taipei City Government
04/22	Cute Baby Giant Pandas Drawing Contest	C.C.C.I.A for Giant Panda
04/27	"Pledging Ceremony of Smoke-quitting Volunteers"	Wenshan District Health Center

Date	Name of Activity	Co-organizers
04/27	Mobile Zoo	Taipei Zoological Foundation
05/03	Workshop for Environmental Interpretation and Dissemination Techniques	
05/06,13,20	Medical Journey in Taipei Zoo” Parent-Child Camp	
05/22	Conservation of Farmland Green Tree Frog in Yunlin--Love for Frogs and Bamboo Shoots: Press Conference for the Promotion of Green Labels	Yunlin County Government, Chinese Wild Bird Federation, Aletheia University, Transworld Institute of Technology and Taipei ZOOlogical Foundation
06/09-10	Farmland Green Tree Frog Ecological Interpreter Training Camp	Taipei Zoological Foundation, Wild Bird Society of Yunlin and Transworld Institute of Technology
06/23	Eco-working Holiday--Be A1 Gore in Taiwan	Society for Wildlife and Nature
07/10	Children’s Zoo:“ Rice Harvest--Little Farmers” Activity	Bojia Primary School
07/12	Press Conference for the 2007 Animal Festival “ ICE ZOO--Love for Taipei Zoo”	
07/14-08/31	Summer Parent-child Bonding Series Activities: Po Yo Bird Parent Child Arts Camp	Taipei Zoological Foundation and Department of Economic Development
07/20-21	“ Little Wildlife Detectives” Training Camp	Taipei Zoological Foundation
07/21-22	“ Animal Fun in Hakka” Activity	Council for Hakka Affairs
08/04, 08/05	Promotion of Conservation for Farmland Green Tree Frog and Organic Agricultural Product Exhibition and Sales Carnival	Taipei Zoological Foundation, Jiayi County She Tuan Primary School, Wild Bird Society of Yunlin and Gukeng Rural Township Dapu Community Development Association
09/25	Ducky Surfing Competition	Taipei Zoological Foundation, Tunghan University, Taiwan Nature Trail Society and Wenshan Community College
10/20	Dreaming Night at Taipei Zoo Activity--Koala Hugs	Bread of Life Christian Church in Taipei
10/28	Series of Celebration Activities for the 21 st Anniversary of Zoo Relocation	Association of Friends of Taipei Zoo
10/30	2007 Recreation Activities for Taipei City Public and Private Elementary School Self-contained Special Education Class	Tanmei Elementary School
12/01-12/24	King Penguin Naming Internet Voting Activity	
12/02	A Merry Swiss Christmas	Taipei Zoological Foundation
12/08	Activities for International Anti-Corruption Day	



● Themed Special Exhibitions

Date	Name of Activity	Co-organizers
01/27-04/30	“Children’s Smiling Faces, Animals, and Love” Oil Painting Exhibition	Mr. Jie-Lun
02/18-12/31	“2007 Good Fortune in the Year of the Pig” Year of the Pig Special Exhibition	Animal Technology Institute Taiwan
05/13	Educational Promotion of Gender Equality-- “Insect Gender Cooperation Exhibition”	
96/06/30-97/04/30	Frog Special Exhibition	
08/01-31	“Healthy Life, Wonderful Life” Poster Exhibition	Department of Health

● Seminar and Workshops

Date	Name of Activity	Co-organizers
06/13-14	2007 Animal and Plant Inspection and Quarantine Staff Education and Training	Bureau of Animal and Plant Health Inspection and Quarantine, Keelung Branch
06/01	2007 Taipei City Workshop on the Identification of Protected Wild Animals	
06/28-29	Workshop on Diagnosis and Identification Technique for Important Disease and Pest Inspection and Quarantine of Animals and Plants	
07/02-07/03	Workshop on Diagnosis and Identification Technique for Important Disease and Pest Inspection and Quarantine of Animals and Plants	
09/01	Asian Zoo and Wild Animal Medicine Symposium	
10/02,04,05	Animal Protection Teaching Materials Design Workshop (North, South, and Central Taiwan)	Taichung City Animal Protection and Health Inspection Center and Tainan City Animal Health Inspection Institute
11/20,24 12/01,09	Butterfly Biodiversity Conservation and Sustainable Management Training Courses (North, Central, South, and East Taiwan)	Society for Wildlife and Nature and Forestry Bureau
10/17,20,24,27	Butterfly Conservation Teacher’s Workshops	Hotai Motors
12/14	Formosan Black Bear Academic Symposium	Taiwan Endemic Species Center



》 Publications and News



- Taipei Zoo continues to publish zoo magazines, annual reports and academic journals. In addition, we reprinted the first edition of "World Zoo and Aquarium Conservation Strategy-- Their Important Roles in Global Conservation". We also issued an Introductory Guide to Common Frogs in Taiwan in conjunction with the Special Frog Exhibition. In addition we published an Eco Guide Book for Insect Valley and a Insect Valley Learning Handbook to guide parents or teachers and students by using the maps and graphs in the books to explore and discover the intricate ecological networks in the Insect Valley of the Insectarium, and the secret of interdependent and competitive relationships among the species; through these books that teach the public the beauty of nature observation, people can be more aware of the changes in the environment, thus be on board for the mission to create a sustainable Earth!
- The Zoo put forward conservation and educational messages via the media as it serves as a channel for promotion. In 2007, Taipei Zoo issued 130 press releases. We strengthened our web service in which all the web content on the Zoo Website is updated in real time. The entrance page received 1,707,200 hits in 2007.

■ Numbers of Press Releases and Media Reports for Fiscal Years 2005, 2006, and 2007

Unit : piece of news

Fiscal Year	Number of Press Releases	Number of Media Reports
2005	134	2,028
2006	143	1,793
2007	130	1,345

Taipei Zoo Library Service

■ 2007 Library Statistics

Item	Chinese Books	Western Books	Japanese Books	Total
Number (books)	7,362	4,404	526	12,292

■ 2007 Number of Borrowers and Borrowing Statistics of Library Collection

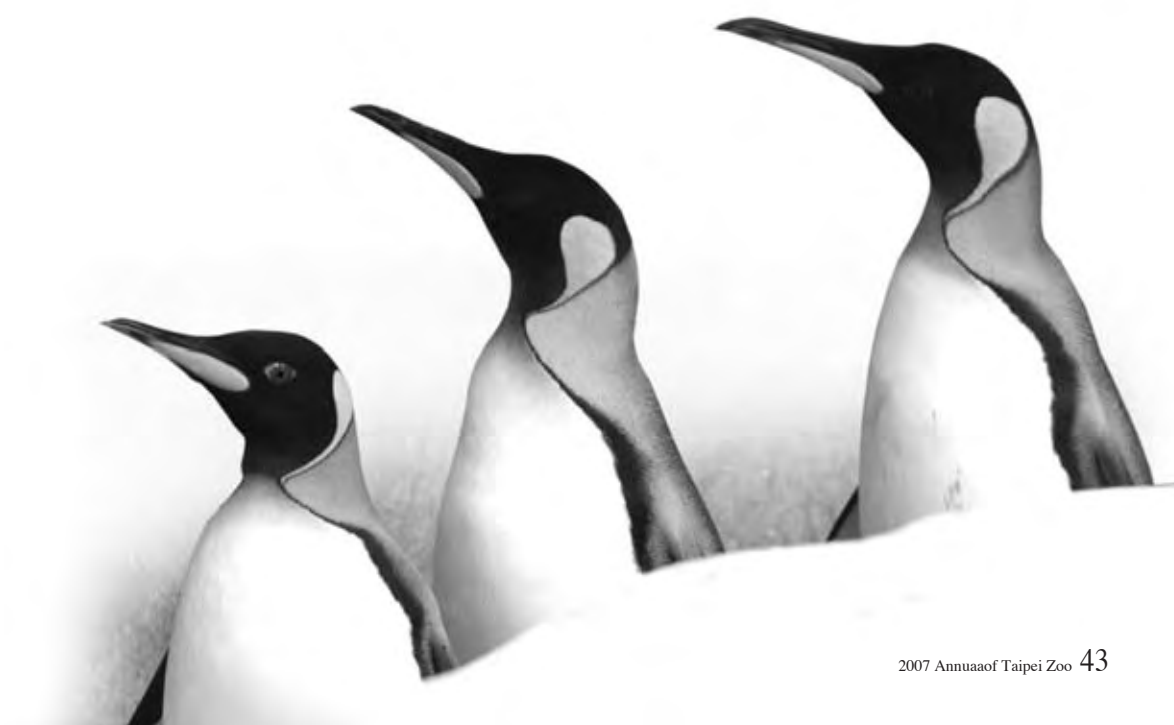
Number of Borrowers	Number of Borrowed Books
1,173	3,299



Publications

List of Publications in 2007

Category	Title	Publication Date
Periodicals	Taipei Zoo Quarterly (Issue 105-108)	January, April, July and October of 2007
	Volunteer Monthly	Beginning of each month
	Annual Zoo Journal	December, 2007
	Annual Report of Taipei Zoo	November, 2007
Special Publication	“World Zoo and Aquarium Conservation Strategy--Their Important Roles in Global Conservation”	July, 2007
	Moving Toward a Better Taipei Zoo--Director's Diary and Eco Guide Book for Insect Valley	December, 2007
Learning Sheet	Insect Valley Learning Handbook	December, 2007
Electronic Publication	Introductory Video of Taipei Zoo (5 min)	October, 2007
Fold-out Pamphlets	ICE Zoo--2007 Animal Festival, Insect Language by Sato, Hide and Seek Map, and Introductory Guide to Common Frogs in Taiwan	July, 2007
	Bear Special Exhibition, Animal Feces Exhibition and Tropical Rain Forest Plants Exhibition	August, 2007
Poster	Hide and Seek Map and ICE Zoo--2007 Animal Festival	July, 2007
Invitations	ICE Zoo--2007 Animal Festival	July, 2007
Stickers	Year of the Pig Special Exhibition Stickers	January, 2007
	Festival Activity Stickers	July, 2007
	Stickers for Insect, Amphibians and Animal Feces Special Exhibitions	August, 2007
Calendar	2008 Animal Desk Calendar	December, 2007
Souvenirs	Year of the Pig Commemorative Gold Coins	January, 2007
	Insect L-shaped Document Folder--Gender Equality Activity	May, 2007
	Insect Poker Cards--Insect Valley Activity	December, 2007
	21 st Anniversary Commemorative Wristlet	October, 2007



》》2007 Animal Festival Activities

“ICE ZOO--Love for Taipei Zoo” is the theme for the 2007 Animal Festival Activity Series, where I stands for I, C represents Conservation, and E denotes Environment. The spirit of “I.C.E.--I, Conservation and Environment” penetrates the series of activities and special exhibitions. We hope that all the people coming for the festival can learn more about animal conservation and the importance of ecological protection in a motivating setting so they can have fun and enjoy the learning process; in turn we look forward to seeing the public take actions to realize the concept of I.C.E.



(1) Multi-themed Activities Design

Animal conservation, environmental education, and biodiversity are the main themes. Coupled with the Cool Summer facilities in the Zoo, we also integrated community resources in designing the themes, showing the diverse faces of the zoo in the summer, with a view to providing tourists diverse educational theme activities.

(2) Strengthening Zoo Night-time Activity Marketing and Service Satisfaction

Take into account the well-being of animals in the Zoo, we opened up part of the Zoo on weekend nights in holding themed training camps to enhance night time visitor's satisfaction, providing the public with a relaxing leisure time in terms of body, heart and spirit in midsummer's nights.

(3) Integration of Social Resources

In conjunction with the City Council, private sector corporations, we expanded the performance perspective in Zoo activities, while the recruiting of sponsors and increased publicity marketing enhanced the marketing effectiveness via media.

(4) The Implementation of Animal and Plant Ecological Environment Conservation Education

To combine the Animal Festival activity themes and animal exhibition areas, we integrated plant themed special exhibitions to introduce the ecological environment of the zoo, endemic and exotic species of plants, so that visitors can move closer to natu-

ral plants and understand the environment, thereby reducing damage to nature for the purpose of habitat conservation.

“Animals, Nature, Stars, and Music” are the features in the 2007 Animal Festival “ICE ZOO--Love for Taipei Zoo” activities, where environmental and ecological conservation, water, and sustainable renewable energy are the three major subthemes for the design of a series of 15 activities. The activities are rich in content, diversified, so visitors can spend a rewarding, interesting and relaxing weekend in the zoo, where people can enjoy the special exhibitions in the daytime, and starlight and music in the nighttime. A series of activities are as follows:

● “ICE ZOO--Love for Taipei Zoo”

Parent-child Night Concert

A total of 9 “ICE ZOO--Love for Taipei Zoo” Parent-child Night Concerts were held in 2007 related to themes revolving animals, including King of the Jungle Symphony, Elephant Tango, Small Frog Rhapsody, Formosan Black Bear March, Koala Waltz, Insect Duets, Mermaid Fantasia, Penguin Happy Song and ICE Whirlwind Festival. Taipei Zoo was turned into a paradise filled with joy, romance, a tint of young fanatics, where the different styles of performance brightened the nightlife at the Zoo. The first concert “King of the Jungle Symphony” kicked off the musical celebration with its grandiose and moving melodies. Taipei Zoo lets people wander about under the night sky in mid-summer nights, embracing in the leisurely romantic ambience in the animal garden of Taipei.

“Night-vision Goggles Animal Ecological Observation”

“Night-vision Goggles Animal Ecological Observation” is the latest innovative activity of Taipei Zoo, where 4 night-vision goggle facilities were set up at the exhibition areas of Formosan black bear, Formosan Reeve’s muntjac, Formosan Sika deers and Formosan macaques in the Formosan Animal Area. Through real-time video transmission through night-vision goggles, the public are able to observe animal behaviors at night, yet they do not have to worry about disturbing or frightening the animals.

Hide and Seek in Taipei Zoo

With the operation of Maoking Gondola, Taipei Zoo launched a themed activity by using “Hide and Seek Map” to go about the zoo. People were invited during summer break to be “Cat” Explorers, where they tried to find out the “cats” hiding inside the zoo with their “Hide and Seek Maps.” Visitors were able to use “Hide and Seek Map” to visit all the felines in the Zoo and understand the geographical distribution of felines in the world, as well as their ecological status and the crisis of survival, so they could have a better and more in-depth appreciation for the felines. Visitors can also uncover the keywords in the “Meow Password,” in which by collecting all 7 different Meow Passwords they will be able to complete the Meow Password on the Hide and Seek Map, making the visitors cat finding experts.

Conservation Discovery Activity Series

We presented the animal conservation research results of Taipei Zoo in the form of special exhibitions, with content including Special Exhibition of Frogs in Taiwan, Insect Language by Sato-Insect Special Exhibition, “BEAR In Mind” Conservation Exhibition, and Animal Feces Specials Exhibition. These series of exhibitions allow us to be aware of the important link between animal conservation and environmental protection.

Come and See --Animal Feces Special Exhibition

In the summer of 2007, we began to introduce related information on animal feces in public toilets in the Zoo for visitors to see and learn. Through the various humorous and innovative displays, the public can understand the value and use of feces. The first stage of operation used five public toilet facilities in succession to tie in with “Come and See Animal Feces Special Exhibitions” and educational activities of the 2007 Animal Festival.

The first stage involved turning five public toilets into five themed restrooms: “Golden Art” at the public toilet east to the front gate; “Super Feces Fun” at the public toilet in the Formosan Animal Area; “Turn Feces into Gold” at the public toilet in the Rainforest Zone Animal Area; “Feces Transformation Stations” at the public toilet in the Desert Animal Area; “Feces for Thought” at the public toilet in the African Animal Area.

The proposal of this creative activity entered the Taipei City Government Innovative Proposal Contest, and won first place in the “Innovation Award”. Award-winning reviews are as follows :

“the creative ideas combined the feature and resources of the institution to play a role in carrying out the social and educational mission...” The result of this can be attributed to the many creative ideas accumulated over the years, including safeguarding the environment for many years and creating a stage for creative development; animal management professional contributed to the themed exhibitions in the stringent inspection of the planning and content revisions. The cornerstone of success lies in the close-bonding professional team in Taipei Zoo.



Insect Language by Sato--Insect Special Exhibition

In the summer, Taipei Zoo launched “Insect Language by Sato--Insect Special Exhibition” where through the beetle specimen, donated by Japanese beetle taxonomist Professor Masataka Sato, which had immense contribution to insect taxonomy and regional observation of insect distribution in Taiwan, coupled with live beetle displays, we encouraged Taiwanese students who are currently feverish about insects (especially beetles) and trained them to possess a scientific mindset in joining into the world of insect taxonomy research and becoming the new blood in the promotion of biodiversity conservation.

“Insect Language by Sato--Insect Special Exhibition” is the first cooperation between Taipei Zoo and National Museum of Natural Science, in which the public are able to see the exhibition in both Taipei and Taichung. By introducing beetles, the main research focus of Professor Masataka Sato, we selected, in particular, the most popular live beetles to be displayed in the Insectarium to convey the concept that even though there are abundant number of insects, we still need the right attitude for conservation to achieve sustainability.

“BEAR In Mind” Conservation Exhibition

“BEAR In Mind” Conservation Exhibition features full-size exhibition models of 8 kinds of bears, in addition to a wealth of information regarding the bear family with various interactive interpretation materials, so that people can get hands-on fun or use their brains in playing the games. Together with the showing of rare footages filmed by NHK Japan, including wild pandas, polar bears, and the mountain life of Formosan black bears, we offered an opportunity for the visitors to think about the crisis faced by the bears in that they should take action in bear conservation.

Special Exhibition of Frogs in Taiwan

Amphibian and Reptile House presents “Special Exhibition of Frogs in Taiwan” which is expected to display 20 to 25 species of common and special frogs in Taiwan, including the exotic species of American bullfrog. Taipei Zoo continues to put effort into the ongoing conservation for Taipei grass frogs and Farmland Green Tree Frog, in hoping that through the understanding of frogs, people can care about the problems generated by the changes in the global environment, so they can cherish and safeguard the unique frog resources and habitat environment in Taiwan.



Environment Re--Creation Activity Series

Through the Rain Forest Economic Plants Exhibition, Cool Cool Energy House Games, Farmland Green Tree Frog Conservation Festival, Water Mist Tunnel, “Wenshan Green Treasure”--Green Life Talks and Aquatic Plant Interpretation and Exhibitions, participants can truly become “Green” experts.

To remind people to pay attention to the global temperature rise and the energy crisis, “ICE Zoo” series of activities not only presented themed educational exhibitions and “Energy-saving Man of Wealth” interpretation activity at the Cool Cool Energy House, time scheduled “Misty Rain” and “Pouring Rain” experience activities were also held on the wooden plank trail in between the orangutan exhibit and Siamang exhibit in the Asian Tropical Rain Forest Animal Area. From these games and activities, people can realize that water resources are hard won and we should be saving water, as well as conveying the message in the importance of rain forest protection and water conservation.

“Wenshan Treasure Hunt” incorporated the green facilities in the zoo, such as the “Cool Cool Energy House”, “Water-saving Zoo”, “Fern Garden,” “Aquatic Botanical Garden,” “Wetland Ecopond,” “Insect Valley,” that are environment-friendly and environments for restoration of rare plants and animals into the treasure hunt activity. Visitors all around can get a taste of the mostly tangible green resources in Taipei City.



2007 Animal Festival “ICE ZOO--Love for Taipei Zoo” Activity Series

Date	Name of Activity	Co-organizers
07/06	Opening Ceremony and Press Conference for Guanwu Formosan Salamander Ecological Education Month Activity Series and Documentary Premiere	Shei Pa National Park
07/06-29	Guanwu Formosan Salamander Ecological Gallery Special Exhibition	Shei Pa National Park
07/07-13	Guanwu Formosan Salamander Ecological Education Seminar	Shei Pa National Park
07/07	Relic Species from the Jurassic Period Searching Contest	Shei Pa National Park
07/08	Guanwu Formosan Salamander Baby Crawling Contest	Shei Pa National Park
07/07	Water Conservation and Energy Saving Educational Activities	
07/07-12/31	Insect Language by Sato Special Exhibition	National Museum of Natural Science
07/08-07/29	The Inconvenient Truth--Love for Taiwan's Ecological Environment Film Festival	Shei Pa National Park
07/12	Press Conference for “ICE ZOO--Love for Taipei Zoo”	
07/14	Animal Festival Activity Series: Beginning of Use of Water Mist Cool Summer Facilities	
07/14-08/25	Parent-child Night Concert	
07/14-08/25	Night-vision Goggles Animal Ecological Observation	
07/14-08/25	Hide and Seek Map	
07/14-08/25	Insect Love--Beetles Learning Camp (6 Sessions)	
07/21,28, 08/04,11,18,25	Night-time Visit to Taipei Zoo--Parent-child Learning Camp	Taipei Astronomical Museum
07/21-08/30	Rainforest Economic Plants Exhibition	
07/27-28	Activities of 2007 Children's Arts Festival Performances	Department of Cultural Affairs, Taipei City Government
08/01-09/30	“Bear In Mind” Conservation Special Exhibition	
08/04-26	Come and See--Animal Feces Special Exhibition	Taipei Zoological Foundation
08/16-09/30	Wenshan Green Treasure Activities	Taiwan Nature Trail Society

»» Regular Services

(1) The total number of visitors in 2007 was 3,370,215.

Services provided by the Visitor's Center included: message broadcasting services (11,069 messages), lost and found (824 items), visitor telephone queries (41,575 calls), and community service opportunities for junior high school and high school students in Taipei City (1,886 persons). From January to May 20th, the number of shuttle tickets sold totaled 2,157,182.

(2) Continued efforts were made throughout the year to add a touch of green to the visitor experience and enhance the scenery.

The plant diversity display along the main path was renewed, and 65,614 flowers and ground cover plants were planted in the Zoo.

(3) Improved Restroom Security Inspections and Maintenance Cleaning

Taipei Zoo has a lot of visitors, but thanks to the hard work of the staff, the Zoo's restrooms are known for being clean and tidy. These restrooms have changed the public's perception that public toilets are always dirty and smelly. In the Public Toilet Competition in 2007, restrooms in the Education Center of Taipei Zoo won first prize in the recreational facilities group. The internal layout of the exhibition area features green landscaping according to the theme of the exhibition. We also designed our very own Animal Knowledge Stickers and drew zoo-related pictures to create a zoo atmosphere for the public. Day-to-day safety inspection and maintenance of toilets were also strengthened, in addition to maintenance of signs.

»» Creative Recreation Experience

● Summer Cooling System

Taipei Zoo continued to hold the "Foggy Forest" themed activity from 2006 Animal Festival, as the water spray cooling system was extended to the Hippo Plaza in the African Animal Area and the walkways in between the Penguin House and Brown Bear

Exhibition Area. Visitors are able to experience a refreshing zoo journey, as these water spray cooling facilities not only beautified the zoo but also cool the visitors down on hot summer days. "Water Dance Area" and "Heavy Rain Experience" in the Rainforest Animal Area were still available, producing a misty water forest recreation environment.

● Nighttime Visit to Taipei Zoo--Animal Light Show

In response to Animal Festival and Night-time opening of the Zoo, we strengthened the lighting on the visitor's path, added animal shaped lamps for a total 17 pieces at 7 locations, typesetting lamps for a total of 12 pieces at 2 locations, and installed special effect lighting on the path in between Children's Zoo to Nocturnal Animal House. At the same time, for the purpose of creating a demonstration area for environmental education that advocate energy-saving and water conservation, and for effective use of energy, 25 sets of solar power street lights were installed on the pathway between MRT Taipei Zoo South Station and Wetland Eco-pond as well as on other visitor's walkways in the Zoo.

● In light of environmental protection,

Year of the Pig for Chinese New Year celebration decorations at the main entrance plaza and its surrounding used mainly recycled material, including PET bottles, wires, all kinds of flower pots, caps from chicken essence drinks, and dried tree branches, plus the meticulous design of zoo staff, we produced 10 pink flying pigs, one gold and silver large pig and one silver piglet, which were well received by visitors for photo-taking.

● Maokong Gondola

The first cable car system in Taipei-- "Maokong Gondola" began operation on July 4. One of the stations "Taipei Zoo South Station" is located in the zoo next to the 69 kv transformer station, the visitor's movement line was changed accordingly. In the past, all visitors came in from the main entrance located adjacent to the MRT Taipei Zoo station, but after the operation of Maokong Gondola, to take into account the safety of visitors, those who

get off at “Taipei Zoo South Station” will need to take the free shuttle buses into the zoo. The shuttle service goes through the Wetland Park, where visitors can enjoy the rich and vibrant scenery of the wetland through the bus windows. In the initial period of the operation of Maokong Gondola, Taipei Rapid Transit Corporation rented two shuttle buses to get visitors in and out of the Zoo. In addition, with the opening of Maokong Gondola and for the convenience of people using EasyCards, visitors can use EasyCards for admission and take the zoo shuttle tram.

or in case visitors have any questions regarding zoo information, they can pick up an emergency telephone and staff at the “Visitor’s Center” will provide immediate real-time services and information.

» Facility Quality Improvement

(1) On-site Emergency and Query Telephone

Residing on the mountain side, Taipei Zoo is secluded and vast, therefore to cope with and minimize emergencies and to maintain security, we installed a total of emergency telephones at 12 locations in remote areas, including 3 locations in the Africa Animal Area, 2 locations in Amphibian and Reptile House and Nocturnal Animal House, respectively, and 1 location in each of the following area, Bird World, Desert Animal Area, Rainforest Animal Area, Insect Valley and Formosan Animal Area. In case of emergency,

(2) Resting Bench Maintenance

Due to the vastness of the Zoo, in order to provide visitors with a comfortable leisure environment, we performed a comprehensive maintenance for all the resting benches in the Zoo, and added 6 resting benches at the Bird World station and 10 benches opposite of the Ark toilet at the front entrance plaza.

(3) Maintenance of Instruction Signs

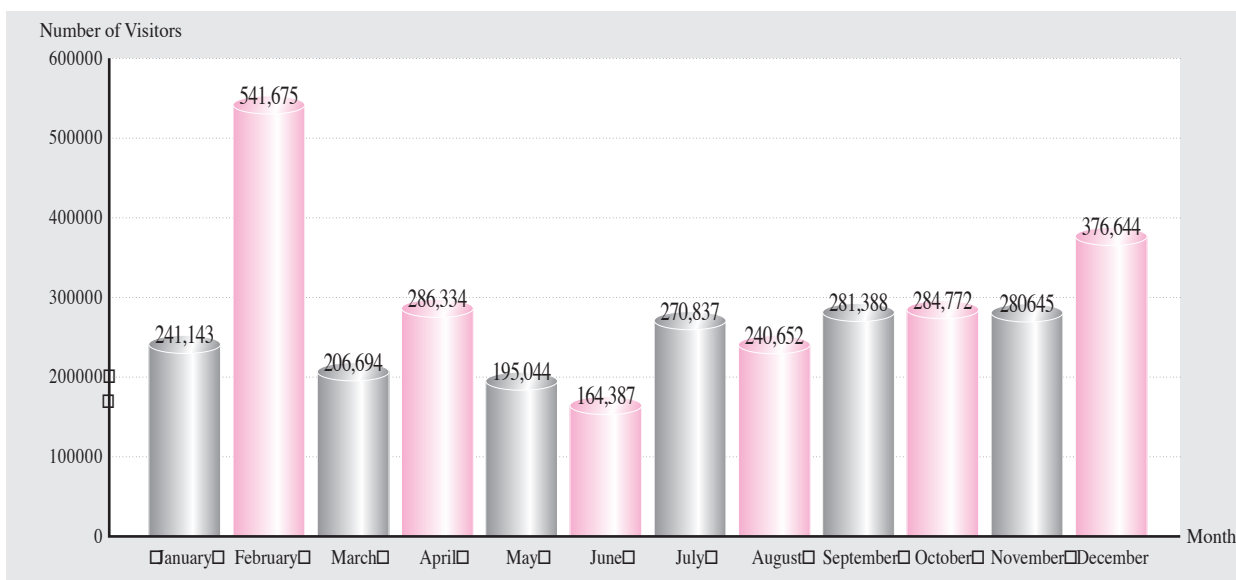
With more than 90 hectares opened to visitors and with the operation of Maokong Gondola and night-time opening, in order to provide quality visit for the public, we strengthened all the instruction signs in the zoo and performed a comprehensive statistical survey of all the signs in the Zoo for recording keeping into a database to provide fully integrated service for visitors. At the same time, to unify all the English signs in the Zoo, we gradually replaced old signs to keep to the bilingual visiting environment. A total of 52 additional signs were put up, plus maintenance of 31 signs.

» Visitor and Ticket Statistics for 2007

■ Visitor and Ticket Statistics for 2007

Item	Amount
Number of Visitors	3,370,215
Admission Revenue	NTD 94,937,325

■ Numbers of Visitors Per Month





»» 2007 Revenue

- The revenue budget was \$NT 132,498,689; and the actual revenue was \$NT 141,924,097.

»» 2007 Expenditure

- The total expenditure budget was \$NT 433,850,396.
- The operating expenditure budget was \$NT 374,422,438; and the actual operating expenditure was \$NT 373,980,889.
- The capital expenditure budget was \$NT 59,427,958; and the actual capital expenditure was \$NT 55,904,573.

■ Taipei Zoo's Budgeted and Actual Expenditures for Fiscal Year 2007

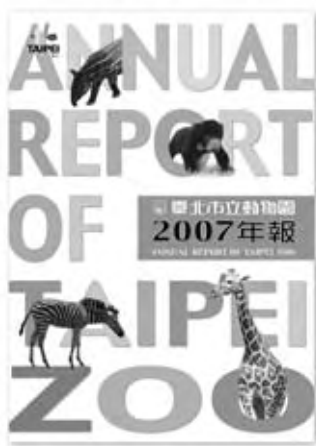
Item	Budgeted (\$NT)	Actual (\$NT)	Implementation Rate
Total Operating Expenditure	374,422,438	373,980,889	99.88%
Administration and management	63,131,857	63,126,629	99.99%
Animal conservation and exhibition	114,330,251	114,000,484	99.71%
Environmental and ecological conservation	37,664,655	37,651,107	99.96%
Education and promotion	30,781,844	30,692,828	99.71%
Animal health care	18,143,952	18,143,494	100.00%
Visitor services	57,930,990	57,929,361	100.00%
Machine and equipment maintenance	52,438,889	52,436,986	100.00%
Total Capital Expenditure	59,427,958	55,904,573	94.07%
Constructions	49,200,213	46,217,733	93.94%
Transportation equipment	36,000	35,980	99.94%
Other equipment	10,191,745	9,650,860	94.69%
Tota	433,850,396	429,885,462	99.09%

Major Events

01/10	Publication of “20 Years in Ark” Special Issue of 20th Anniversary of Taipei Zoo’s Relocation to Muzha
01/11-01/12	15 staff members from Tama Zoo in Japan came to Taipei Zoo and visited the Insectarium, Temperate Zone Animal Area, African Animal Area, Rainforest Animal Area, Conservation Research Center, Veterinary Division and Inspection and Quarantine Division.
01/13-01/19	Two staff members including Associate Research Officer Lin visited well-established enterprises and government departments with high quality management in Japan.
01/17-01/20	Six staff members including the Director took leave at their own expense to visit Singapore Zoo and Jurong Bird Park in learning their interpretation facilities, night-time opening and activity marketing.
01/18	Taipei Zoo exchanged 2 female Taoyuan boars from Tainan Livestock Research Institute.
01/18	We assisted Laboratory Animal Center at National Defense Medical Center in successfully performing uterine fibroids surgery on Formosan macaques at the Quarantine and Rescue Center in the Zoo.
02/16	For the Year of the Pig Special Exhibition, Taoyuan boars left quarantine and were relocated to Children’s Zoo for exhibition for the first time.
02/18-12/31	From Feb. 18 to end of the year, Special Exhibition Division of the Education Center held the “2007 Good Fortune in the Year of the Pig” Year of the Pig Special Exhibition.
02/22	Mayor Hao attended “Spring Fun in Taipei Zoo, Mayor and Visitors Happy Too” activity commissioned by Department of Social Welfare in the Zoo.
02/22-02/25	“Treasured Pig Greets Flamingos” Parent-Child Winter Learning Camp, attracting 86 parents and kids in 4 session groups.
02/28	84 professors and students from the Department of Veterinary Medicine at National Chung Hsing University visited Taipei Zoo to learn about professional veterinary techniques.
03/03-03/11	Large-sized lanterns were produced for the theme of “Three Little Pigs’ Cool Energy-saving House” to participate in the 2007 Taipei Lantern Festival Themed Lantern Exhibition.
03/04	We co-organized “Chinese New Year Blessing Celebration and Animal Lantern Riddle Activity” with the Association of Friends of Taipei Zoo and openly awarded 10 Staff of the Year and 3 Volunteer of the Year.
03/13	Taipei Zoo held the “2007 Press Conference and Opening Ceremony of Children’s Month in Taipei and Health City Road Run” commissioned by the Department of Education at the front entrance plaza. Commissioner Wu Ching-Chi was the host of the event, and super marathon runner Kevin Lin accompanied the children in running the roads circling the Zoo.
03/14	We held “Taipei Zoo Rice Transplanting Activity--2007 Field Experience Learning Course”, inviting students from Bojia Primary School in getting a taste of the hard work of rice planting, as well as understanding the gradual disappearing rice paddy fields in Taiwan and wetland ecology.
04/04	We organized work circle education training, inviting Chen Jun-An to speak about “Basic structure and mode of operation in quality control”, with a total of 63 participants.
04/05-04/08	It’s the first time we held Parent-child Learning Camps during Chinese New Year Vacation, where we combined the issue of global warming and launched “Let’s go Penguin” Parent-child Learning Camps with King Penguin as the theme, attracting 120 parents and kids in 4 session groups.
04/10	“Let’s Talk in English”, English learning program of Taiwan Public Television came to shoot veterinary diagnosis footage.
04/25	The Director attended the press conference for TOYOTA “Butterfly Image” Activity, co-sponsored by Hotai Motors, in which Hotai Motors announced their cooperation with Taipei Zoo in butterfly conservation and donated NT\$ 800,000 in animal adoption fund.
04/27	Manager Chao of the Animal Division at Taipei Zoo (Secretary-General of the Association of Zoos and Aquariums) and 5 other staff members attended the “Bird Rearing Demonstration Seminar” held by “Taiwan Association of Zoos and Aquariums”.
04/29	Volunteer gathering “Field Work--Search for Eucalyptus Farm for Koala Bears” activity, held in Danshui with 145 volunteers participating.
05/06,13,20	We held “Medical Journey in Taipei Zoo” parent-child learning camps, for the public to learn about the hardware and software facilities of our professional veterinary team, plus spreading the concept of caring for wild animal welfare and life education.
05/06-05/19	We sent 2 staff members to Sichuan Giant Panda Research Center at Wolong Nature Reserve in Mainland China to learn about breeding management and health care techniques for giant pandas.
05/15	We co-organized “Water Conservation Volunteer Educational Training” with Water Resources Agency, Ministry of Economic Affairs and Industrial Technology Research Institute of Taiwan, R.O.C., in which “Energy-saving and Water Conservation Circle” was responsible for presentation and on-site interpretation of “Rain/Used Water Utilization System.”
05/15	Exchange Program with Nanyuan Farm: Taipei Zoo used five pairs of Nicobar pigeons in exchange of a pair of jungle fowls, a pair of red jungle fowls, a pair of green jungle fowls, one pair of grey pheasant and nine Chinese bamboo-partridges, totaling at 17 birds of 5 species.
05/19-05/25	Manager of the Veterinary Division and veterinarians went to Shanghai Zoo to organize animal training courses and give talks about animal behavior enrichment.

05/22	Six staff members including the Director went to Gukeng, Yunlin to attend the press conference for “Farmland Green Tree Frog” conservation, pledging to protect the habitat of the endemic species of Farmland Green Tree Frog in Taiwan and launching the green label.
05/31-06/01	We organized staff service enhancement education and training-- “Service EQ” taught by Zhong Hui-Ling, with a total of 204 people attending.
06/03	To celebrate the No Smoking Day on June 3, we co-organized “Tobacco Hazards Control Act Street Dance Show and Petition to Refuse Second-hand Smoke” with the Health Service Center in Wenshan District.
06/08-06/09	We assisted Taipei County Government in the investigation of identifying the unidentified animal attacks on sheep herds at Linkou and damage control.
06/09-06/10	We co-organized Farmland Green Tree Frog Eco-tour Interpreter Training Camp at Gukent, Yunlin County with Taipei Zoological Foundation, Wild Bird Society of Yunlin and Transworld Institute of Technology, with 71 students participating in the camp.
06/11-06/15	Two staff members, including Dr. San, from a sister zoo in Sai Kung visited us, where they gave an interim report on the Gibbon Conservation Project and exchanged experiences with us.
06/13	The Education Center was closed due to construction at the Animal Display Area, no charge policy was implemented from June 13 to the completion of the construction.
06/21	Zhan De-Chuan, technician in the Veterinary Division, was awarded “Outstanding Worker of 2007”.
06/25-06/26	Taipei Zoo co-organized “Seminar on Wildlife Exhibition Management and Medical Teams in Zoos” with National Museum of Marine Biology and Aquarium at Pingtung, which was also a member gathering for the Aquarium Association.
06/28-06/29	We co-organized the “2007 Animal Disease Diagnosis Seminar” in the Zoo Auditorium with Bureau of Animal and Plant Health Inspection and Quarantine, Council of Agriculture, and Department of Veterinary Medicine of National Taiwan University.
06/30	From today to April, 2008, “Special Exhibition of Frogs in Taiwan” held in the Amphibian and Reptile House will display 25 species of common or special frogs in Taiwan, including the exotic species of American bullfrog. Taipei Zoo continues to put effort into the ongoing conservation for Taipei grass frogs and Farmland Green Tree Frog.
07/02-08/31	In 2007, summer internship opportunities were provided for 28 college students of animal-related majors, 12 of veterinary medicine major, 10 of educational recreation related major and 10 students from abroad.
07/02-07/21	We cooperated with Taipei Zoological Foundation in holding “Little Wildlife Detectives” Training Camp at Gukeng, Yunlin, with 45 participating students.
7/4	With the opening of Maokong Gondola and for the convenience of people using EasyCards, visitors can use EasyCard for quick admission (not including group admission) and take the zoo shuttle tram.
7/5~	From today, to implement energy conservation, the Administration Building and Educational Center will shorten the time for air conditioning operation, and increase the temperature for cold water in the drinking fountains and the air return temperature of all the air conditioners.
07/06-07/29	It’s our first collaboration with Shei Pa National Park in co-organizing “Relic Species from the Jurassic Period Searching Contest-Guanwu Formosan Salamander Ecological Education Month” Activity Series
07/07-12/31	We cooperated with the National Museum of Natural Science in launching “Insect Language by Sato--Beetles Special Exhibition” starting from today to the end of 2007.
07/14	2007 Animal Festival “ICE ZOO--Love for Taipei Zoo” Opening Ceremony, Taipei Mayor Hao Long-Bin and Commissioner of Department of Education Wu Ching-Chi hosted the “Animal Light Show” lighting ceremony, raising the curtain for activities such as night-time opening of the Zoo.
07/14-08/25	“Night-vision Goggles Animal Ecological Observation” is the latest innovative activity of Taipei Zoo, where 4 night-vision goggle facilities were set up at the exhibition areas of Formosan black bear, Formosan Reeve’s muntjac, Formosan Sika deers and Formosan macaques in the Formosan Animal Area.
07/14-08/25	The first “Insect Love--Beetles Learning Camp” was held for a total of 6 sessions with 300 participating kids.
07/14-08/26	In response to the operation of Maokong Gondola, we initiated the themed activity of “Hide and Seek Map”.
07/21	We co-organized “Butterfly Discovery--Journey to a World of Flying Beauties” activity with Hotai Motors (TOYOTA), in the promotion of butterfly conservation education and the understanding of the importance of butterfly conservation by the general public.
07/21-08/25	We collaborated with the Taipei Astronomical Museum in launching the “Night-time Visit to Taipei Zoo--Parent-child Learning Camp” for a total of 6 sessions with 180 participants.
07/21-12/31	“Rainforest Economic Plants Exhibition” was launched to explain to the public about the formation of rainforest ecology and the reason and cause for the disappearance of rainforests.
07/26	Former Vice President Annette Lu attended “Little Scholar Learning Activity”.
08/01-09/30	We held “2007 Animal Festival Activity Series--Bear In Mind in Mind: Bear Conservation Special Exhibition” in front of the plaza of Education Center.
08/01	Veterinarian and at Beijing Zoo and the Director of the Reptile House came to Taipei Zoo for a period of 45 days for professional exchanges.
08/04-12/31	“2007 Animal Festival Activity Series--Come and See--Animal Feces Special Exhibition” was held at the 5 public toilets on the east side of the front entrance plaza.
08/04-08/05	Together with 6 other organizations, including Gukeng Rural Township Dapu Community Development Association, we held “Promotion of Conservation for Farmland Green Tree Frog and Organic Agricultural Product Exhibition and Sales Carnival” at the front entrance plaza.

08/14	Annual Zhong Yuan Commemoration of the Dead for animals was held at the new car maintenance station.
08/16-09/30	We commissioned Taiwan Nature Trail Society to hold the “2007 Wenshan Green Treasure Activity”.
08/18-08/19	Typhoon Sepat struck Taiwan. Zoo closed for two day. Clean-up after the typhoon included processing of more than 50 fallen trees and 64 truckloads of leaves.
08/22-09/01	The Director attended the Annual Meeting of World Association of Zoos and Aquariums in Hungary
08/29	Taipei Zoo was awarded first place in the Taipei Outstanding Public Toilet Review (Recreation Category), in which Mayor Hao himself awarded the Zoo with a medal.
08/30	We co-organized “Asian Zoo and Wild Animal Medicine Symposium” with Department of Veterinary Medicine at National Taiwan University, in which the participants visited the Zoo on September 1st.
09/04	Starting from today, every Tuesday and Thursday at 11 a.m. at the parrot room in Bird World, “Champion” blue-and-yellow macaw with accompany the animal nanny and interpreter in introducing “Rainbow Bird” XParrots”, hoping to draw the public’s awareness on the survival crisis of parrots.
09/06-09/11	Four staff members, including assistant research officer of the Education Division attended the 1st Asia Zoo Educator’s Conference in Singapore, where their 4 reports on marketing and educational promotion received appreciative criticisms.
09/07	Research officer Jin Shi-Qian led staff members to well-established rainforest and conservation research centers in Malaysia, Indonesia, and Singapore for observation visits.
09/13	City Councilman Lin Jin-Zhang commissioned Taipei Zoo to hold a coordination session for red-crested cranes.
09/13	We won the 6 th Taipei City Government Quality Award, and Mayor Hao asked the Taipei City Government Department of Civil Servant Development to give us the award on this day.
09/25	We cooperated with Taipei Zoological Foundation, Tungnan University, Taiwan Nature Trail Society and Wenshan Community College in holding “4 th Ducky Surfing Competition” on the riverbank of Jinmei River, in which we hope that through “Little River Protector” activity, the public can better understand and form a closer relationship with Jinmei River.
10/01-31	Together with the “Serve Up Good Stuff” activity of Taipei City Government on October, we made sure that all the staff members truly understand the 13 major implementation focuses of Taipei Zoo.
10/06 - 07	Typhoon Krosa struck Taiwan. Zoo closed for two days.
10/17-27	“Butterfly Teacher Training Camp” sessions were held on the 17 th , 20 th , 24 th and 27 th of October, with 138 participating students. This activity was sponsored by Hotai Motors.
10/18	Foreign guests from “Taipei International City Elite Camp” came to visit Taipei Zoo.
10/18-19	Three staff members, including Director Chang in the Veterinary Division went to the Office of Animal Health Inspection and Quarantine at Taitung County to carry out the bird rescue fracture operation courses under wildlife rescue project of Council of Agriculture.
10/22	Zoo Tram parking shed was checked and accepted.
10/28	The 21 st Anniversary of Relocation to Muzha and the exhibitions of “Animal Conservation” “You and Me!” were held at the front entrance plaza, and we invited Fang Guo-Yun, Head of Conservation Team, Forest Bureau to host the unveiling ceremony of the “Conservation Wall” together with the Director.
10/30	Together with the Department of Education, Taipei City Government and Tanmei Primary School, we organized the 2007 Recreation Activities for Taipei City Public and Private Elementary School Self-contained Special Education Class-- “Dance in Joy, Fly with Love”, attracting approximately 1,200 students, teachers and parents in having fun in the games.
11/15-12/14	Seoul Zoo in South Korean sent their nutritionists and veterinarians to Taipei Zoo, where our staff directed and guided them in a one-month professional learning and experience sharing.
11/16	Press conference for little Malayan sun bear “Missy Bear” was held at the nursery room of Children’s Zoo. Starting from November 17 th , we organized feeding shows of Missy Bear (at 10:00 and 14:00), and through the nanny’s explanation, we tried to bring public awareness to “Home of Malayan Sun Bear--Asian Tropical Rainforest Crisis” calling on people to protect nature and understand the importance of environmental protection.
11/16	We assisted Taipei County in conducting “Wild Animal Identification and Capture and Rescue Training Courses”.
11/20-12/09	In conjunction with the Society for Wildlife and Nature and Forestry Bureau, we held Butterfly Biodiversity Conservation and Sustainable Management Training Courses in Central Taiwan (Nov. 20, Jiji), Eastern Taiwan (Nov. 24, Zhiben), Southern Taiwan (Dec. 1, Maolin) and Northern Taiwan (Dec. 9, Taipei Zoo).
12/01-12/24	We held a “King Penguin Naming Internet Voting Activity” and the winning name was “Blacky”.
12/02	The fifth consecutive annual activity of Swiss celebrating St. Nicholas Day organized by the Children’s Theater with about 100 Swiss participating in the event.
12/05	Dr. Kawanabe Hiroya, curator of Lake Biwa Museum in Shiga Prefecture, Japan and professor emeritus of Kyoto University, visited the Amphibian and Reptile House and Eco Pond in Taipei Zoo.
12/14	Together with Taiwan Endemic Species Center, we jointly organized the “Seminar on Formosan Black Bear Research and Protection” with nearly 200 participants.
12/16-12/20	Staff members from Leipzig Zoo in Germany arrived at Taipei Zoo to review what they learned about rearing, food and medical care, and other techniques for taking care of pangolins the year before. They accompanied “Toufen,” the pangolin given by us in taking the plane together back to Germany in the early hours on the 20th.
12/19	With the Bat Association of Taiwan, we released “Batty Lan”, a Formosan flying fox, back into the wild.
12/20	For fiscal year 2006, all of 13 research projects and staff researches were awarded, including 2 first prizes, 7 second prizes, 9 third prizes, and 1 special award.



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