





The Malaysian Zoological Society would like to thank our Patron

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Sultan dan Yang Dipertuan Negeri Selangor Darul Ehsan
Serta Segala Daerah Takluknya

THE SULTAN OF SELANGOR







En. Mohamed Seth Ismail

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En. Rahmat Ahmat Lana Mr. James Bush, M.I.P.R.M Prof. Dr. Zulkifli Idrus Tuan Hj. Abdullah Ayub Y. B. Dato' Low Tian, S.P.M.J. Pn. Azizah Abdul Ghani Pn. Siti Noruhani Ibrahim En. Hassan Samion Mr. Kenny Goh Chin Hock Mr. Jimmy Tan

HR & Administration. En. Rahmat Ahmat Lana

Y.Bhg. Dato' Hj. Zaharin Hj. Md. Arif, D.P.T.J. **Development & Planning** Public Affairs & Marketing Pn. Azizah Abdul Ghani **Education & Training** 

Mr. James Bush, M.I.P.R.M En. Mohamed Seth Ismail Park & Gardens





# **CHAIRMAN'S REPORT**

Dato' Ismail Hutson Chairman Malaysian Zoological Society

## **INCOME AND EXPENDITURE**

The management of the Malaysian Zoological Society was confronted with the anxiety of a tough year in 2009. This was due to the anticipation of the economic downturn worldwide and we expected that Malaysia would not be spared. We predicted that our loyal sponsors had to make hard decisions during this tough time. On behalf of the Malaysian Zoological Society, I would like to express our utmost gratitude for the continued generous support of individuals, firms and organizations for the RM395,663.00 received during the year as opposed to RM713,880.00 in the previous year, in spite of the tough business environment.

Further, on behalf of the Council, I am also grateful for the support from the visitors of Zoo Negara which has resulted in the historical record of gate income of RM10,199,211.00 which covered 86% of the annual income. I am also grateful to The Honorable Dato' Sri Azalina Dato' Othman Said, the Minister of Tourism Malaysia who graciously launched "Zoom Zoo Negara" on 12<sup>th</sup> January. We are sure that the favourable results that we saw were the outcome of one of the numerous domestic tourism campaigns carried out by the Ministry of Tourism Malaysia (MoTour). With the continued collaboration, Zoo Negara will excel as a major tourist attraction.

The year saw yet another satisfactory record surplus of Operation Expenditure (OPEX) amounting to RM800,000.00 as compared to RM479,151.00 for 2008. This was the fifth consecutive year of improved OPEX performances. I congratulate the staff of Zoo Negara for their continuing efforts in controlling expenditure and creating events which led to better gate sales. I strongly believe that our employees are the cornerstone of our success; I am sure that we not only endured the 2009 business downturn but we have found the ways to attract more visitors during difficult times.

#### DEVELOPMENT

Capital Expenditure (CAPEX) for the year was RM1,357,252.00 as opposed to RM409,677.00 in 2008. The Society received contributions in kind from the Ministry of Natural Resources and Environment Malaysia (NRE) and MoTour in 2008. The projects completed during the year were the new Milky Stork Aviary (RM200,000.00), the Rainwater Harvesting System (RM383,738.00), the upgrading of the frontage at the Main Entrance (RM1,265,045.00) and the animal sculptures at the entrance of Parking A (RM198,800.00). This gave a total value of RM2,047,583.00. On behalf of the Council, a big thank you to all supporters who made donations in cash or in kind.

#### PROMOTIONAL EVENTS & ACTIVITIES

Zoo Negara launched the "Visit Zoo Negara Year" with eight new multi-coloured battery operated trams on 1<sup>st</sup> January. Present for the launching was The Honorable En. Jelaing Anak Mersat, Deputy Minister Domestic Trade and Consumer Affairs who took the first tram ride tour around the Tunku Abdul Rahman Lake.

At the Tunku Abdul Rahman Hall, En. Jelaing launched the **Zoo Negara Loyalty Card** targeted at 3 - 12 year old children with unlimited entry for one year. As of 31<sup>st</sup> December about 3,000 children subscribed to the Zoo Negara Loyalty Card.

Four Council members, Y. Bhg. Dato' Hj. Zaharin Hj. Md. Arif, En. Rahmat Ahmat Lana, Pn. Azizah Abdul Ghani and myself went to the Istana Kayangan Shah Alam to seek an audience with our Patron, D.Y.M.M Sultan Sharafuddin Idris Shah on 16<sup>th</sup> March.

#### **FUTURE PLANS**

The Society had the opportunity to brief 35 senior government officials from three Ministries, namely NRE, MoTour and Ministry of Housing and Local Government (MHLG) regarding the zoo development programme, wildlife conservation, its contribution as a tourist attraction and funding on 12<sup>th</sup> October. These government officials were headed by The Honourable Datuk Sri Douglas Uggah Embas, Minister of NRE and The Honourable Dato' Sri Dr. Ng Yen Yen, Minister of MoTour. Dr. Mohamad Ngah, the Director of Zoo Negara was present to deliberate on the strengths, weaknesses, opportunities and threats (SWOT) analysis of Zoo Negara. In a nutshell, the government officials were informed that Zoo Negara has been operating with its own OPEX since the zoo was established in 1963; however what we needed from the government is funding assistance for the development and renovation of several large exhibits such as the Elephant Exhibit and Bear Complex.

There was a closed door meeting among the government officials for about three hours thereafter and I am pleased to inform that the Society was told that the government is supportive of the society and a budget of about RM5.7 million for upgrading and improvement purposes will be tabled to the government for approval.

Finally, I wish to thank the Council Members of the Society for their advice and assistance during the year and sincere appreciation is extended to the dedicated staff for their hard work during the year.





# **DIRECTOR'S REPORT**



**Dr. Mohamad Ngah**Director
Zoo Negara

Although Zoo Negara Malaysia was 46 years old this year, the approach of marketing the zoo under challenging economic conditions is not clear. We anticipated that budget allowances simply are not there and with less money to go around, proposals for sponsorships were subjected to higher levels of review. And further, managers who traditionally dealt with the sponsorships are no longer the decision makers.

We decided to fallback on the visitors which we knew from earlier market surveys conducted in Europe, Malaysia and elsewhere that 98% of them who visited the zoo were interested in having enjoyable family outings. The majority of visitors' saw the zoo as an ideal place for family recreation. Regrettably only 2% of the visitors were interested in wildlife conservation.

Strategically, the year was started with the "Visit Zoo Negara Year" and launching of the "Zoo Negara Loyalty Cards" on 1<sup>st</sup> January 2009. This was followed by the launching of "Zoom Zoo Negara" by The Honourable Dato' Sri Azalina Dato' Othman Said, the Minister of MoTour on the 12<sup>th</sup> January. The Harvard Business Review observed that during the economic downturn the best strategy to adopt is to provoke the customers (*Lay, et al, 2009*). Zoo Negara decided to confront the year using the strategy of "Provocation-based Selling" as opposed to the normal "Product-based Selling". The underlying

provocation-based selling is the idea that Zoo Negara should help the visitors to find money even when discretionary spending appears to have (at least temporarily) dried up.

Based on the historical annual record gate sales in 2009, I am proud to say that we have successfully strategized and charted an alternative solution for families to release their tensions and a much-needed breath of air during general economic turmoil. In other words, what we are telling the visitors' was; it is still much cheaper to patronize Zoo Negara as opposed to bringing the whole family for a tour outside Kuala Lumpur during the difficult time. This was provocation-based selling at its finest.

In order to entice the visitors further, Zoo Negara launched the largest Insect Zoo in Southeast Asian region on 27th June. We were honored to have at hand The Honourable Dato' Sri Sulaiman Abdul Rahman Abdul Taib, The Deputy Minister of MoTour to inaugurate the opening of the Insect Zoo. On display are 500 insects in the form of live and taxidermy specimens. Among the Malaysian species highlighted are some of the world's record breakers; (1) the world's largest moth, Atlas Moth (Attacus atlas) (2) the world's longest insect, Stick Insect (Phobaeticus serratipes) (3) the world's most beautiful butterfly, Rajah Brooke (Troides brookiana) (4) the world's largest cricket, Giant Bush Cricket (Macrolyristes imperator) and many others.



We continue to educate the public and create awareness that Zoo Negara is committed to wildlife conservation. We take pride to state that the Malaysian Zoological Society is the only non-government organization (NGO) in Malaysia which operates a zoo that is actively involved in wildlife conservation release programme. 2009 witnessed, yet another milestone with the completion of the new breeding aviary for the Milky Stork (*Mycteria cinerea*). The wild population of Milky Stork in 2004 was estimated to be 10 or less birds (*Li and Mundkur, 2004*); and we are proud to report that Zoo Negara has bred 250 birds over 20 years.

During the year, 10 captive bred Milky Storks were released to a natural habitat, mostly mangrove swamps in Kuala Selangor and Kuala Gula, Perak, giving a total of 48 birds. Prior to their release, the Milky Storks were fitted with radio transmitters in order to monitor their whereabouts from the point of release. I would like to thank the Department of Wildlife and National Parks Peninsular Malaysia (DWNP) who has been our main collaboration partner; both monitoring and research work after the conservation release programmes are conducted jointly.

Zoo Negara conducted the Second International Amphibian Workshop on 19 – 22<sup>nd</sup> June. A three-day course covering advance ex-situ captive management and husbandry for amphibians, basic veterinary care and quarantine protocols was attended by 20 local and 10 international participants from Hong Kong, Singapore and Taiwan. I would like to thank Ron Gagliardo (Training Officer of the Amphibian Ark, Atlanta, USA) and Dr. Brad Wilson (Consultant herpetologist to San Diego Zoo, USA) who had both organized the course and guided the exciting nightly *"frogging"* around the zoo.

I would like to thank all the zoo's supporters; from those who have given 10 cents (in our 10 cents campaign) to those who have been our major donors and sponsors such as MoTour, NRE, Department of Irrigation and Drainage Malaysia (DID), National Hydraulic Research Institute Malaysia (NAHRIM), DWNP, Bank Kerjasama Rakyat Malaysia Berhad, Malayan Banking Berhad, Ambank Group, Exxon Mobil Malaysia Sdn. Bhd., ING Insurance Berhad, The Lion Group, Sungei Wang Plaza Sdn. Bhd., HSBC Bank Malaysia Berhad, Carlsberg Brewery Malaysia Berhad, Perbadanan Kemajuan Filem Nasional Malaysia (FINAS) and many others. For Malaysian Zoological Society, every contribution is important and all the donations helped the zoo to achieve its mission to be world class.

Again, I would like to make a special note here that the importance of the staff of Zoo Negara's involvement; for their loyal commitments, contributions and hard work, the success of the programmes and initiatives in 2009 would not have been possible.





# **FINANCE AND ADMINISTRATION**



The "10 Cents for My Zoo" campaign was launched on 27<sup>th</sup> July for the elephants' new enclosure. As of 31<sup>st</sup> December, the total collection was RM29.700.00.

The Quality Management System (QMS) ISO 9001:2000 was upgraded to ISO 9001:2008 on 21<sup>st</sup> July after some changes in the Quality Manual. This year's surveillance audit of ISO 9001:2008 was conducted by Pn. Mariam Binti Mohamad Zin, SIRIM Lead Auditor on 24<sup>th</sup> and 25<sup>th</sup> August. There were two Opportunities for Improvement (OFI's) reported in the Hospital and Quality Manual documentation. Both of the OFI's have been rectified according to the SIRIM's QMS requirement.





Zoo Negara continued to be active in the provision of technical wildlife training to Malaysians who are involved in wildlife management. The Bird House team led by Ms. Doreen Khoo Say Kin, the Curator, conducted a practical training course on identification, handling and captive diet of hornbills to the Malaysian Nature Society (MNS) officers Ms. Ravinder Kaur, Ms. Teresa Ong and three orang asli on 6th October.

Dr. Muhammad Danial Felix Abdullah and his team, mainly from the Zoology Department conducted three "Animal Rescue and Captive Management" courses for 15 participants from Dewan Bandaraya Kuala Lumpur (DBKL) on 15<sup>th</sup> July and another 15 participants on 16<sup>th</sup> July. 12 participants from Jabatan Pertahanan Awam Malaysia (JPAM) were present on 5<sup>th</sup> November. The objectives of the course were to train the government rescue units on methods of capturing and restraining wild animals in public housing areas. Practical sessions with proper equipment and appropriate husbandry practices while in transit were also highlighted.

Zoo Negara played host for the second time to conduct the 10-day "Zoo Keeper Course" specially structured to equip new keepers on basic wild animal husbandry and bio-security, animal enrichment programmes, ethics and welfare of animals in captivity from 26<sup>th</sup> October to 4<sup>th</sup> November. Nightly discussions were held to assess trainees' understanding of the lectures, practical sessions and assignments given. The course was offered to both the Malaysian Association of Zoological Parks and Aquaria (MAZPA) member institutions and non-MAZPA institutions.







# **PUBLIC AFFAIRS & MARKETING**

This year was an exciting year for the department with the inclusion of high-profile events taking place especially with the launch of the Insect Zoo – the first of its kind in the country and the biggest in the region – is part of the zoo's efforts to achieve world-class status by 2015.

Linda Salim, the Head of Administration and her team were assigned to assist in planning of the 100-day events on every weekend and holiday to attract the visitors. The Information Technology team designed new paper bags, folders, notebooks, brochures, loyalty cards, bunting and banners. The tag line used in all the items was "Fun with Nature".

The department with KL HOP-ON HOP-OFF bus services jointly organized a programme to create public awareness on Tapir conservation in conjunction with "World Tapir Day". The HOP-ON HOP-OFF City Tour bus brought tourists from Kuala Lumpur City Centre to Zoo Negara to participate in various arts & crafts activities, educational interactive sessions at the Tapir Exhibit and other exhibits.

Zoo Negara is proud to be associated with wildlife conservation and biodiversity heavy hitter, National Geographic by hosting the launch for 'National Geographic TV1 Quiz'. The show which was first aired on Mondays at 7.00 pm - 8.00 pm until 26<sup>th</sup> April 2010 was aimed to inculcate awareness and love towards the conservation of animals.



#### **SPONSORSHIP & DONATIONS**

In terms of sponsorship and contributions, this year the department received RM395,663.00. The largest contributors ranging from industrial leaders such as Bank Kerjasama Rakyat Malaysia Berhad, Malayan Banking Berhad, Ambank Group, Exxon Mobil Malaysia Sdn. Bhd., ING Insurance Berhad, The Lion Group, Sungei Wang Plaza Sdn. Bhd., HSBC Bank Malaysia Berhad, Carlsberg Brewery Malaysia Berhad, FINAS and many others. Zoo Negara also received donations totaling RM32,273.00 with Park Royal Hotel Kuala Lumpur being the single largest donor.

The department also managed to add to the zoo's revenue by collaborating with several media related companies and production houses. Revenue amassed this year amounted to RM43,890.00 with no less than 15 media companies embarking on media projects in the zoo with positive signs of further improvement in media activities in the following year. Below is the comparison table in terms of revenue through media projects and filming production between 2008 and 2009.

	<u>2008</u>	<u>2009</u>
	RM	RM
Filming & Videography	3,200.00	43,890.00
Sponsorship	652,370.00	319,500.00
Donation	58,309.00	32,273.00
TOTAL	713,879.00	395,663.00

Zoo Negara also received other sponsorships in kind surpassing the RM2 million mark. Two of the biggest were the upgrading of the frontage work at the Main Entrance and the Rainwater Harvesting System.

Sponsorship in Kind 2009	
Aviary for Milky Stork	200,000.00
Upgrading the Frontage of Main Entrance	1,265,045.00
Rainwater Harvesting System	383,738.00
Animal Sculptures at the entrance of Parking A	198,800.00
Malaysia Wildlife Photographer of the Year	50.000.00

TOTAL 2,097,583.00

TOTAL SPONSORSHIP & DONATIONS 2,449,356.00





# **PUBLIC AFFAIRS & MARKETING**

Many thanks to all our corporate friends, loyal sponsors and donors for their continuous support in our wildlife sponsorship and educational programmes. Special thanks also to the government agencies for their great support and sponsorship in kinds to make it another fruitful year.

#### MALAYSIA WILDLIFE PHOTOGRAPHER OF THE YEAR

The zoo wrapped 2009 with a grand gala dinner organized for the Malaysia Wildlife Photographer of the Year. The annual event which took place at the Palace of the Golden Horses, welcomed entrepreneurs, loyal sponsors and officials from DWNP, MoTour, FINAS and photographers. With no less than 10 awards which included the coveted Best Photo Award and Hutson Award, the glamorous fun-packed evening was accomplished with auctions, slide presentations and performances.

Zoo Negara had employed the services of MediaBanc (M) Sdn.Bhd to monitor its media coverage in September 2008. During the year, a total of 357 articles were published with the recorded advertising and public relation values of RM2.9 million and RM8.5 million, respectively. The most active month was in January with 60 articles written about the zoo in local media. The advertising and public relation values recorded for that month were RM394,103.00 and RM1,182,310.00 respectively.

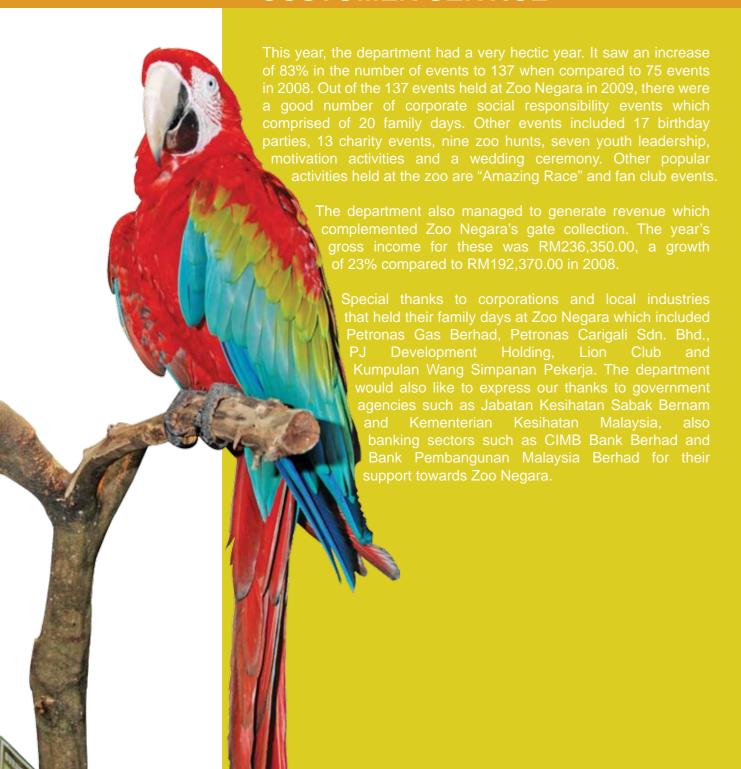








# **CUSTOMER SERVICE**











# **DEVELOPMENT & MAINTENANCE**

The Development and Planning Committee (DPC) continued with its policy of improvement within the zoo during the year under review.

# Development Projects:

NO	WORK COMPLETED BY 31 DECEMBER 2009	COST (RM)
+	Upgrading of the perimeter frontage of Zoo Negara by MPAJ sponsored by Ministry of Tourism Malaysia.	1,265,045
2	Upgrading of Main Entrance at Car Park A with animal sculptures sponsored by Ministry of Tourism Malaysia.	198,800
3	Construction of Rainwater Harvesting System sponsored by Department of Irrigation and Drainage.	383,738
4	Construction of Milky Stork Breeding Aviary sponsored by Ministry of Natural Resources and Environment.	200,000
5	Upgrading of slope and interlocking pavement at Banteng Enclosure to Savannah Walk.	142,638
6	Repair of roads around the Zoo.	81,640
7	Upgrading of Tiger and Lion Enclosures.	81,905
8	Construction of Painted Storks' viewing area.	47,092
9	Upgrading of Penguin House.	31,458
10	Upgrading of Pony Enclosure.	19,680
11	Upgrading of Nursery House.	12,144
12	Construction of river water inlet for river pumps.	29,492
13	Upgrading of Malayan Gaur night quarters.	16,987
14	Converting of Ankole Enclosure to accommodate Banteng and Ankole.	219,797
15	Upgrading of Mammal Kingdom Dome.	42,812
16	Upgrading of Emu Enclosure	23,530
17	Construction of Deer Exhibit at Surau.	149,175
18	Repair of roof at Food Court Complex.	18,584
19	Upgrading of Director's Guest House roofing,	21,000

# PROPOSED DEVELOPMENT PROJECTS

In addition to the work already carried out, a number of projects have been proposed by the various members of the Committee and zoo staff. The list below itemises those projects which are now under consideration for upgrading and new construction:

- 1. The electrical cabling and energy saving system.
- 2. The Bear Enclosure.
- 3. The Savannah Night Quarters.
- 4. Public toilet at the Bird House area.
- 5. Elephant Night Quarters.
- 6. Primate Islands.
- 7. The water piping system.









# **EDUCATION**

The department had a remarkable year with the addition of three new staff members. We welcomed Ms. Edwina Lim Teen as our Education Executive in January followed by Ms. Liyana Amir as our Education Executive and Ms. Maznira Sylvia Azra Mansor as our Librarian in August. Their responsibilities included assisting with planning and execution of education programmes, worksheets, teaching tools, posters, publications, photography, organizing the Education Resource Centre that has been upgraded and to conduct our popular volunteer programme.

#### **EDUCATION SERVICES**

The department introduced eight new packages with a fun learning experience approach to raise awareness on wildlife and its surroundings. These packages offered various topics including 'Malaysian Endangered Journey', 'Meet the Giants', 'I Am A Zookeeper', 'I Am An Animal Trainer', 'I Am A Vet', 'Great Apes', 'Big Cats Trail' and 'Malaysian River Journey'. These educational outdoor programmes included guided tours, animal talks and interactive sessions with display materials, hands-on activities, art sessions and conservation messages. Our target groups were students ranging from pre-schools to institutions of



## **EXHIBITIONS AND SPECIAL EVENTS**

The department continued to work closely in organizing events inside (during festive seasons and special occasions) and outside the zoo at shopping centers for outreach programmes. Various series of road shows were held and mostly involved TESCO Hypermarkets, Jusco Hypermarkets, Giant Shopping Malls and Kuala Lumpur Central Market. During the programme, the education team introduced the educational packages as well as promoting Zoo Negara to the public. The department was also involved in organizing various events and workshops including 'World Tapir Day', 'Amphibian Husbandry Workshop', '6th MAZPA Field Training Course', 'Animal Captive & Management Course', 'Birdathon Competition', 'Malaysia Wildlife Photographer of the Year 2008' and 'Wirazone Customer Day'.

## VOLUNTEERS

The department received 8,630 individuals, senior students and corporate agencies who contributed their time through social services as compared to 3,400 in the previous year.

The department continuously received a series of wonderful contributions from 48 volunteers from Way-Out Experiences Malaysia Sdn. Bhd. (WOX). The volunteers came from United States of America, Australia, United Kingdom, Germany, Denmark and New Zealand and were given the task of conducting environmental enrichment activities specifically to orangutans, chimpanzees, tigers, bears, elephants and other small mammals.

Zoo Negara would like to express our deepest appreciation to Ms. Fareea Ma, Chief Executive Officer and Mr. Mazrul Mahadzir, Senior Programme Facilitator of WOX.

The department also would like to thank all local institutions, universities, colleges and schools for their support in community services in aid of wildlife appreciation.

A special mention goes out to two of our most dedicated and helpful volunteers Mr. Larry Reiten, 68, from the United States and retired teacher, Ms. Patricia Zaharah, 73, who spent numerous hours of their time at





# **EDUCATION**

## **INDUSTRIAL TRAINING**

The department provided internship opportunities for 110 trainees as compared to 55 students in the previous year from various institutions and colleges. The most popular fields of study were Tourism Management, Business Administration, Park & Amenities, Zoology, Biodiversity Conservation and Management, Landscape Management, Photography, Environmental Science, Marine Science, Biotechnology, Microbiology, Bioinformatics, Forestry, Mathematical Science (Statistics), Veterinary Medicine, Public Relations, Agrobiology, Psychology, Communication, Marketing and Finance.

The department would like to thank Universiti Putra Malaysia (UPM), International Islamic University of Malaysia (IIUM), Universiti Malaysia Terengganu (UMT), Universiti Sains Malaysia (USM), Universiti Kebangsaan Malaysia (UKM), Universiti Teknologi MARA (UiTM), Universiti Malaysia Sarawak (UNIMAS), Universiti Malaysia Sabah (UMS), Universiti Malaya (UM), Universiti Industri Selangor (UNISEL), Universiti Tunku Abdul Rahman (UTAR), Universiti Tun Abdul Razak (UNITAR), University College Sedaya International (UCSI), Kolej Professional MARA, Kolej Komuniti Kuching, Taylor's College and Perbadanan Hal Ehwal Bekas Angkatan Tentera (PERHEBAT).

Zoo Negara is proud to have received three international trainees from University of Leeds United Kingdom, Royal Veterinary College United Kingdom and Oberlin College United States, respectively. This proved that Zoo Negara is internationally recognized as an industrial training facility.

# RESEARCH AND DATA COLLECTION

A total of 251 students as compared to 35 students last year from universities and colleges registered under the research programme.

- Behaviour & Activity Patterns of the Masked Palm Civet in Captivity.
- 2. Rhinoceros Hornbill's Behaviour.
- 3. Activities & Food Preferences of Orangutan in Captivity.
- 4. Sampling of Crows' Faecal Matter.
- 5. Freshwater Aquarium & Show Amphitheatre Pool Design.
- 6. Behaviour & Activity Patterns of Binturong (*Arctictis binturong*) in Captivity.

- 7. Legal Protection for Endangered Species: Malayan Tapir and Malayan Tiger.
- 8. Molecular Genotyping and Phylogenetic of the Barking Deer and Sun Bear.
- 9. Risk Management.
- 10. Behavioural Study of Silvered-leaf Monkey in Captivity.
- 11. Animal Photography Portrait.
- 12. Occupational Safety and Health.
- 13. Bird Ecology.
- 14. Endangered Species at Zoo Negara: A Study on Malaysian Law.
- 15. Organizational Management, Performance & Development.
- 16. Water Conservation.

## TRAINING, WORKSHOPS AND SEMINARS

Monthly seminars for staff, were conducted with the primary aim to improve knowledge about zoo management. The seminars were open to the public with a view to boost knowledge on wildlife, plant conservation and other related environmental issues.

Topics covered were "The Importance of Plants in Life", "Introduction to GPS", "The Effect of Ecological Changes on Fish Population", "Cleaner Air for Healthier Zoo", "Electrical Safety", "Amphibian Workshop", "Photography Workshop", "Influenza H1N1", "Animal Rights, an Islamic Perspective", "MAZPA Keeper Field Training Course" and "Customer Satisfaction & Hospitality". We would like to thank the speakers who gave their time for our seminars and workshops.

#### **PUBLICATIONS**

In October, the department launched "Kancil Gazette", a monthly electronic newsletter on which are posted news item and details of activities during the month under review.

In the course of preparation, the department played a major role as editor for the publication of the Coffee Table Book entitled "Malaysia Wildlife Photography of the Year" to be launched at the Gala Night Dinner in honour of the winners.





# **PARK AND GARDENS**

This year, the department continued with the tree and shrub planting programmes at specific locations.

# **Landscape Amenities**

Shrubs and trees such as the "Yellow Turnera" (*Turnera ulmifolia*), "Cordyline" (*Cordyline fruticosa 'Firebrand'*) and "Broad-leaved Fig" (*Ficus roxburghii*) were planted around the new Hari Harimau kiosk.



Hari Harimau Kiosk

"Rubra" (*Carphalea kirondron*) and the (*Loropetalum spp.*) were planted near the Rotunda building.



Rotunda

Additional species of shrub, Mother In-Law's Tongue (Sansevieria trifasciata 'Laurenti') were planted at Savannah Walk.



Savannah Walk

Plantings at the Food Court area near the Wild Restaurant were replaced by new species of Heliconia. Also, plantings of "Costus" and "Calathea" were made in the same area.



Food Court

Another location for Heliconia plantings was in the fish pond area.



Fish Pond





# **PARK AND GARDENS**

Mammal Kingdom

Lanscaping work continued around the Porcupine Exhibit.



Porcupine Exhibi

Another location was the dome building.



Dome at Mammal Kingdom

Insect Zoo

Plantings at the Insect Zoo were replaced with *Heliconia* and *Costus* species and "Iris" (Neomarica longifolia).



Dome at Mammal Kingdom

Landscape activity continued at the Big Cats area.



Tiger Exhibit

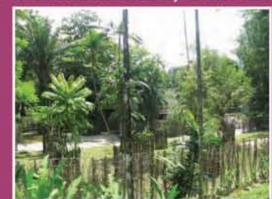
Hornbill Centre

As a new exhibit, the Hornbill Centre required a considerable amount of landscaping work.



Hornbill Centre

A great deal of landscaping work was carried out during the year at the new deer exhibit constructed nearby Tunku Abdul Rahman Lake.



Deer Exhibi





# ZOOLOGY

being refurbished and upgraded. skills and knowledge. of the keepers. BIRDS and captive management. Sabah Bird Festival in October and later in November. We also collaborated on Conservation

# **Breeding Programme**

The department continued to breed endangered and indigenous species of Malaysia. The release of captive bred birds in the zoo into their "control" natural habitat managed by DWNP was the highlight of the year.

The list of birds bred during the year were Milky Storks (*Mycteria cinerea*), Argus Pheasant (*Argusianus argus*), Malayan Peacock Pheasant (*Polyplectron malacense*), Crestless Fireback Pheasant (*Lophura erythropthalma*), Black Crowned Night Heron (*Nycticorax nycticorax*) and Common Peafowl (*Pavo cristatus*).

Other active breeders were Greater Flamingo (*Phoenicopterus ruber*), Pink Backed Pelican (*Pelecanus rufescens*) and African Spoonbill (*Platalea alba*). The Painted Stork (*Mycteria leucocephala*) still holds the title as the most prolific breeders. Another 200 chicks were recorded during the year, which brought the total to approximately 650 birds.

The department had managed to establish and modified a new Hornbill Centre using the cages formerly used for Lesser Apes. This Hornbill Centre comprised of eight cages to house eight pairs of hornbill species of the 10 known species in Malaysia.

The list of the hornbill species during the year were Rhinoceros Hornbill (Buceros rhinoceros), Greater Hornbill (Buceros bicornis), Wreathed Hornbill (Aceros undulatus), White-crested Hornbill (Berenicornis comatus), Wrinkled Hornbill (Aceros corrugatus), Bushy-crested Hornbill (Anorrhinus galeritus), Oriental Pied Hornbill (Anthracoceros albirostris) and Black Hornbill (Anthracoceros malayanus).

#### Conservation

A new Breeding Aviary sponsored by the DWNP was built to increase the number of Milky Stork (*Mycteria cinerea*) for a Conservation Release Programme. A total of 18 birds were successfully released to Matang Mangrove Forest Reserve in Kuala Gula, Perak. The bird sanctuary is the largest single mangrove forest in Peninsular Malaysia, established since 1970 by DWNP.

In the year of review, Zoo Negara embarked on a new collaborative research between Universiti Putra Malaysia (UPM), Ocean Research Institute, Tokyo University and DWNP. The objectives of this research were to monitor the flight patterns using bio-logs for captive and free-ranging Painted Storks (*Mycteria leucocephala*) at the zoo. This is an ongoing research





# **ZOOLOGY**

## **Exchange Programme**

A series of breeding loans and exchange programmes were carried out with other domestic and international zoos during the year.

The list of breeding loans and exchange programmes were as the following:

Species	Number	Destination
Milky Stork (Mycteria cinerea)	2.2.0	Zlin Zoo, Czech Republic
Painted Stork (Mycteria leucocephala)	5.5.0	Zlin Zoo, Czech Republic
Malayan Peacock pheasants (Polyplectron malacense)	2.2.0	Singapore Zoological Garden, Singapore
Crestless Fireback Pheasants (Lophura erythropthalma)	2.2.0	Singapore Zoological Garden, Singapore

## MAMMALS

The section assisted the Zoo Veterinary Hospital with the "Animal Rescue and Captive Management" training sessions for DBKL in July, MAZPA participants in October and JPAM in November, on the correct ways of restraining animals without causing stress and injury to both animals and handlers.

The number of mammal species was 90 comprising of 525 specimens.

#### PRIMATES

The department took the first step towards our pledge for World Class Zoo by converting nine of the primates' cages into the Hornbill Centre by November.

The resident primates were prearranged on breeding loan to approved facilities. A female Bornean Gibbon (*Hylobates muelleri*) was on breeding loan to Zoo Negeri Johor. In return, the department received one female Siamang (*Hylobates syndactylus*).

#### APE CENTRE

The Ape Centre is home to 1.3.0 Bornean Orangutans (*Pongo pygmaeus*), 2.4.0 Sumatran Orangutans (*Pongo abelii*) and 5.2.0 Chimpanzees (*Pan Troglodytes*).

## **Breeding Programme**

Our Sumatran orang utan named Rokiah gave birth to a female on 17<sup>th</sup> February. She was separated from the group to allow her to care for her newborn.

On 11<sup>th</sup> June, a female chimpanzee named Tina from Taiping Zoo was introduced to the family group at the Ape Centre.

## **Exchange Programme**

A male chimpanzee named Rambo was sent to Zoo Melaka as part of the exchange programme.

## **CARNIVORE & MAMMAL KINGDOM**

## **Breeding Programme**

The Capybara (*Hydrochoerus hydrochaeris*), Striped Hyaena (*Hyaena hyaena*) and the Malayan Flying Fox (*Pteropus vampyrus*) gave birth during the year.

#### **Exchange Programme**

The section received a pair of baby Masked Palm Civets (*Paguma larvata*), one male Banded Linsang (*Prionodon linsang*) and three baby Common Palm Civets (*Paradoxurus hermaphroditus*) from Johor Zoo.

#### SAVANNAH / HOOF

The section had 64 animals comprising of Bantengs (Bos javanicus), Giraffes (Giraffa camelopardalis), Zebras (Equus burchelli), Nyalas (Tragelaphus angasi), Sable Antelopes (Hippotragus niger), Ankole Cattles (Bos taurus) and the various types of Deer species.





The male Malayan Tapir (*Tapirus indicus*) from DWNP and the resident female were observed to be mating. Two male Nile Hippopotamuses (*Hippopotamus amphibius*) were sent to Johor Zoo

# **Training Programme**

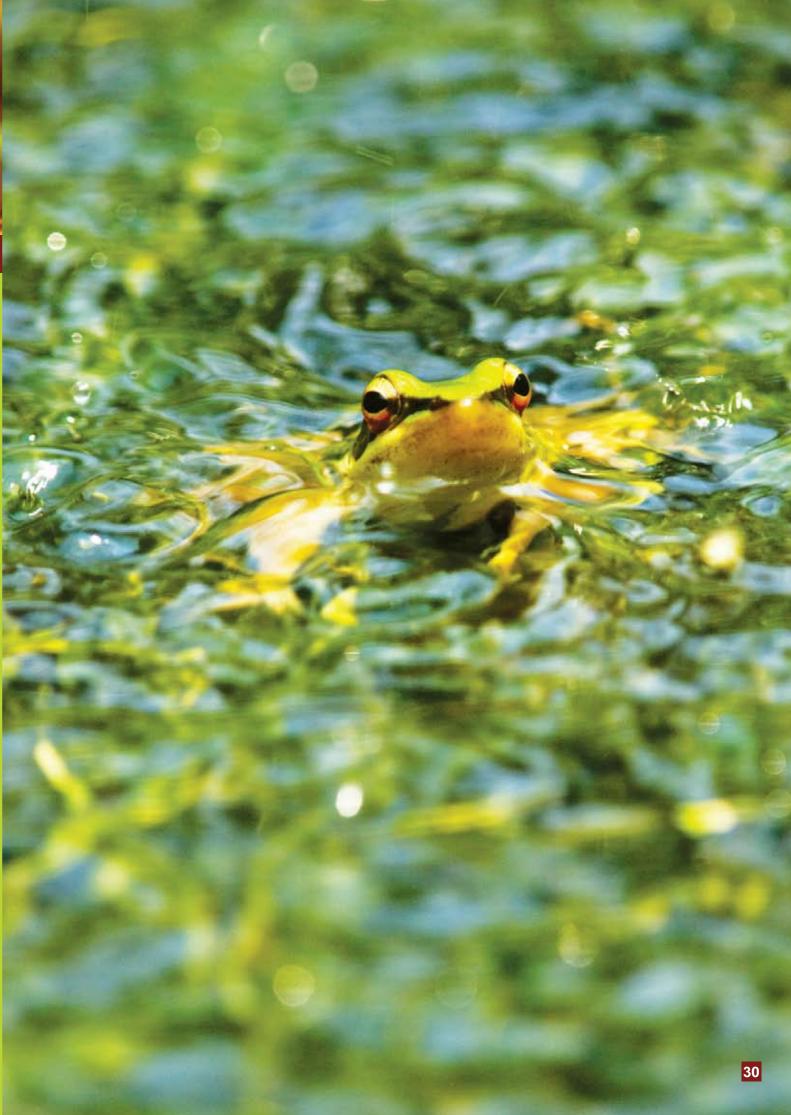
Three staff, Mr. Mohd. Hisham Ahmad, Mr. Mohd Effendi Radzuan and Mr. Mohamed Fitri Mohamed Yussoff were sent to Singapore Zoological Garden for elephant training in November.

## REPTILE HOUSE AND AMPHIBIAN WORLD

The section houses 57 species and 236 specimens comprising snakes, lizards, crocodiles and turtles, while the Amphibian World has 22 species consisting of frogs and toads.

## **SHOW SECTION**

Instead of having shows purely for entertainment, animal performances were tailored towards environmental conservation and education. Animals involved in the show included birds, fur seals and a sea lion. Animals were trained through positive reinforcement techniques for shows that display various natural behaviour.





# **HOSPITAL & VETERINARY SERVICES**

The department saw a number of changes during the year as we welcomed two veterinarians, Dr. Sarah Chong Shu Chuin and Dr. Natrah Razak in July and August, respectively.

Zoo Negara now has four veterinarians at hand, to care for more than 5,000 residents of the zoo.

# **Animal Tranquilizations**

During the year, 126 animals were tranquilized compared with 125 animal tranquilizations in 2008. These animals were tranquilized for various treatments and procedures including physical checkups and disease screening. Chemical restraint was utilized during the transfer of animals within sections or to other zoos. Physical restraint was limited to trained animals and smaller species via squeeze cages.

# Animal Identification

Microchips were subcutaneously implanted in 63 animals during the year as a method of animal identification. To date, 240 animals had been implanted with microchips. This represented almost 25% of the total mammal species in the zoo.

## **Preventive Medicine**

Preventive medicine is the backbone in any medical initiative, to aid in diagnostic and curative treatment. The following activities were conducted:

#### Vaccination

Over 50 animals were given yearly booster shots. The felids, viverrids and procyonids were vaccinated with Feline Rhinotracheitis-Calicivirus-Panleukopenia-Chlamydia psittaci vaccine. The hyaenids were vaccinated with Canine distemper-Adenovirus type 2-Parainfluenza-Parvovirus, Leptospira canicola and icterohaemorrhagae vaccines.

# **Tuberculosis (TB) Testing**

32 animals were randomly chosen for *Mycobacterium spp.* testing using the rapid test kits in comparison to eight animals in the previous year. All results were negative.

# Leptospirosis

24 animals were tested for *Leptospira spp.* rapid test kit. In the previous year, eight animals were tested for *Leptospira spp.* All results were negative.

## **Hepatitis B Test**

The Hepatitis B test was carried out on 18 animals with a rapid test kit. All results were negative.

# **Animal Mortality**

In terms of mortality percentages, this year recorded a much lower incidence, compared with the two previous years.







# Hospital

This year, 57 animals were treated in the Zoo Veterinary Hospital. Among the species involved were small and large cats, civets, reptiles, primates and a bear.

# Field

As a standard practice in Zoo Negara, the treatment of large animals took place in the field, either in their exhibit areas or night quarters. Most were hoofed species and large carnivores. There were 92 cases, treated as outpatients in 2009.

# **Predator Control**

The ongoing predator control programme is shown below; rats and crows remained the most prevalent.

PREDATOR YEAR	RATS	COMMON PALM CIVET	PETICULATED PYTHON	CROW	MACAQUE	DOMESTIC CAT
2008	435	5	3	2038	53	31
2009	342	2	12	380	17	26







# **TUNKU ABDUL RAHMAN AQUARIUM**

Akuarium Tunku Abdul Rahman (ATAR), the oldest public aquaria in the country, is due to be re-launched in January 2010 with a new concept, the 'Malaysian River Journey- Mountain to the Sea'. This is the first wetland-based-aquaria that depicts Malaysian and South East Asian aquatic flora and fauna, along various river zones.

## Tank preparation and landscaping

Tank landscape includes the use of various materials that go accordingly to the habitat/niche of that section of the river.

In addition to the landscaping of tanks, the team was also busy in landscaping the public area with artificial stones at various selected sections around the aquarium, mainly the upper river zone, mid river zone and the marine zone. An artificial mudflat to display various crab species was constructed at the mangrove zone. In addition to this, artificial trees have been erected to give a realistic feel as to walk in a real forest.

Landscaping of the marine zone started in the year with various tanks and designs inline with the theme.

#### **River System Mural**

The river system mural was completed before the South East Asian Zoos Association (SEAZA) Conference depicting almost life size scenes of habitats/niches that are found along the river. These paintings are along side the tanks that display aquatic flora and fauna of that river section.

#### Mini Display Tanks

Ten sets of mini tanks were erected, each with six small tanks. These tanks exhibit smaller fish and invertebrates (alive and preserved) and even various floristic exhibits such as fruit and leaves of selected trees or shrubs. A total of 60 new tanks have been completed. By the end of 2009, about 90% of these tanks were filled. Work on the balance 10% is under way.

#### **Education Activities and Interactive Sessions**

As part of the education effort at the aquarium, posters and display boards are placed at the aquarium. Among others, the educational posters touched on various topics such as man and wetlands, the history of ATAR and a marine poster display of large marine animals.

The aquarium was one of the first sections in the zoo to be actively involved with this interactive session with visitors. The interactive sessions which began in July, were conducted during weekends and public holidays. The response has been very encouraging as visitors found it very helpful especially in understanding the new aquarium concept.





# **DONOR & SPONSORS**

# LIST OF SPONSORSHIP / DONATION 2009

TOTAL SPONSORSHIPS / DONATIONS RM 10,000 AND ABOVE

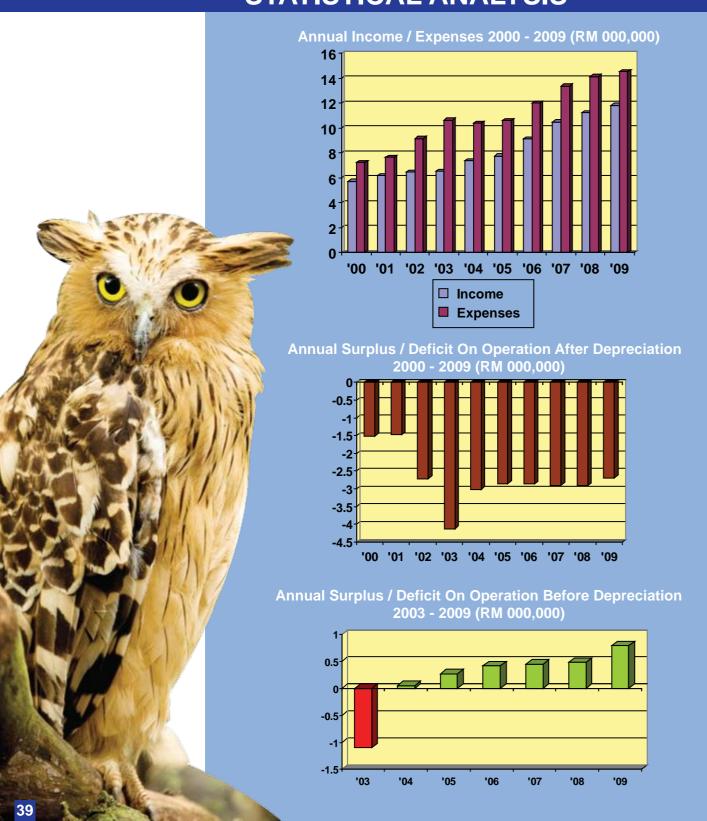
NAME OF SPONSORS	ANIMAL / ITEM SPONSORED	RM
BANK KERJASAMA RAKYAT MALAYSIA BERHAD	BIRDS AND TRAM HUT	45,150.00
MALAYAN BANKING BERHAD	TIGER	40,000.00
AMBANK GROUP	DROMEDARY CAMELS	40,000.00
EXXON MOBIL MALAYSIA SDN BHD	TIGERS	40,000.00
ING INSURANCE BERHAD	AFRICAN LION	25,000.00
	GIR LION ENRICHMENT	10,000.00
THE LION GROUP	AFRICAN LION	21,000.00
SUNGEI WANG PLAZA SDN. BHD	MINIATURE HORSE AND ZEBRA	20,000.00
HSBC BANK MALAYSIA BERHAD	TIGER	20,000.00
CARLSBERG BREWERY MALAYSIA BERHAD	ELEPHANTS	15,000.00
PERBADANAN KEMAJUAN FILEM NASIONAL MALAYSIA	WILDLIFE CONSERVATION	10,000.00
TOTAL SPONSORSHIPS / DONATIONS RM 10,000 AND A	BOVE	286,150.00
SPONSORSHIP / DONATION BELOW RM 10,000		65,623.00
SPONSORSHIP IN KINDS		
MINISTRY OF TOURISM	UPGRADING THE FRONTAGE OF MAIN ENTRANCE	1,265,045.00
DEPARTMENT OF IRRIGATION AND DRAINAGE	RAINWATER HARVESTING SYSTEM	383,738.00
DEPARTMENT OF WILDLIFE AND NATIONAL PARKS	MILKY STORK	200,000.00
MINISTRY OF TOURISM	UPGRADING PARKING A ENTRANCE WITH ANIMAL SCULPTURES	198,800.00
MINISTRY OF TOURISM	PHOTOGRAPHER OF THE YEAR 2009	50,000.00
TOTAL SPONSORSHIP IN KINDS		2,097,583.00
TOTAL SPONSORSHIPS & DONATIONS		2,449,356.00
TOTAL SPONSORSHIPS & DONATIONS		2,449,330.00
OTHERS - TV SHOOTING ETC		43,890.00

# **STAFF LIST**

	Dr Mohamad Rin Ngah Rh D		SIAFF LIST ASAT ST	T DECEMBER 20	<u></u>		
Director ADMINISTRATION & HUMAN	Dr. Mohamad Bin Ngah Ph.D.						
	Linda Binti Salim						
Head of Administration							
Head of Human Resource Human Resource Officer	Mohd Husny Bin Mustaffa						
	Hasnold Hisyam Bin Adenan						
Administrative Executive							
ISO 9001 Executive	Badro Hisham Bin Othman						
Event Coordinator	Sri Murugan A/L Kupan (Until 04/06/2009)		Wan Suhana Binti Wan Mohd N	oor (Until 09/07/2			
Officer							
Driver	Ali Bin Mohd Som		Suhaimi Bin Jamaluddin		Sezali Bii	n Abdul Aziz	
Despatch	Abdul Rahman Bin Mohamad Isam (Until10/02/20						
INFORMATION TECHNOLOG							
	Aslifatihah Binti Ahmad						
Officer							
Graphic Designer							
FINANCE							
	Ngiam Yiow Woon (Until 22/02/2009)						
	Mariana Binti Muhammad (Until 30/09/2009)						
			Mat Nawi Mesahah Alimen		k Jilin Maheran Binti Muh	nammad Hasnida Binti Hasan Nudin	
PUBLIC RELATION & MARKE							
Public Relation Executive	Subashni A/P Bashu (Until 18/03/2009)		Siti Zulaikha Binti Mohd Zahid (				
	Suraya Binti Md Nasir (Until 29/12/2009)		Tayalan A/L Raman (Until 09/03				
Ticker Checker	Chen Nyet Moy		Nor Shafrina Binti Ismail (Until 2			rah Binti Abdul Aziz (Until 09/03/2009)	
	Arieyudistiraishaq Bin Arifin Fadli (Until 30/07/200		Nor Hayati Binti Abdullah				
	Mohammad Haikal Acken Bin Pajah						
EDUCATION							
HOSPITAL & VETERINARIAN	SERVICES						
	Dr. Mat Naim Bin Hj. Ramli						
	Dr. Muhammad Danial Felix Bin Abdullah		Dr.Chong Shu Chuin, Sarah			h Binti Abd Razak (Until 26/09/2009)	
Lab Officer	Muzaffar Bin Mosquill (Until 19/12/2009)						
Senior Keeper							
Senior Keeper RESEARCH & DEVELOPMENT							
Senior Keeper RESEARCH & DEVELOPMENT Training Coordinator							
Senior Keeper RESEARCH & DEVELOPMENT Training Coordinator HORTICULTURE							
Senior Keeper  RESEARCH & DEVELOPMENT  Training Coordinator  HORTICULTURE  Supervisor							
Senior Keeper  RESEARCH & DEVELOPMENT  Training Coordinator  HORTICULTURE  SUPERVISOR  MAINTENANCE & DEVELOPM  Executive	Sukor Bin Mohammad Nazafar Bin Idris Muhammad Bin Ismail IENT						
Senior Keeper  RESEARCH & DEVELOPMENT  Training Coordinator  HORTICULTURE  SUPERVISOR  MAINTENANCE & DEVELOPA  Executive  Supervisor	Sukor Bin Mohammad Nazafar Bin Idris Muhammad Bin Ismail <b>TENT</b> Shahril Bin Shariff Ahmad Bin Noor Mohammed		Mohamad Salihin Bin Senawi				
Senior Keeper  RESEARCH & DEVELOPMENT  Training Coordinator  HORTICULTURE  Supervisor  MAINTENANCE & DEVELOPA  Executive  Supervisor  Senior Handyman	Sukor Bin Mohammad  Nazafar Bin Idris  Muhammad Bin Ismail  IENT  Shahril Bin Shariff  Ahmad Bin Noor Mohammed  Ishak Bin Salim	Ridwan Fitri Bin Isha	Mohamad Salihin Bin Senawi sk Nor Fazli Bin Md Kh		Mohd Sahere Bin Saliman	Mohammad Arif Bin Ibrahim	
Senior Keeper  RESEARCH & DEVELOPMENT  Training Coordinator  HORTICULTURE  SUPERVISOR  MAINTENANCE & DEVELOPA  Executive  Supervisor	Sukor Bin Mohammad  Nazafar Bin Idris  Muhammad Bin Ismail  IENT  Shahril Bin Shariff  Ahmad Bin Noor Mohammed  Ishak Bin Salim						
Senior Keeper  RESEARCH & DEVELOPMENT  Training Coordinator  HORTICULTURE  Supervisor  MAINTENANCE & DEVELOPA  Executive  Supervisor  Senior Handyman  Handyman  ZOOLOGY	Sukor Bin Mohammad  Nazafar Bin Idris  Muhammad Bin Ismail  IENT  Shahril Bin Shariff  Ahmad Bin Noor Mohammed  Ishak Bin Salim  Kamarul Amirudin Bin Kamaruzaman						
Senior Keeper  RESEARCH & DEVELOPMENT  Training Coordinator  HORTICULTURE  Supervisor  Executive  Supervisor  Senior Handyman  Handyman  ZOOLOGY  Curator	Sukor Bin Mohammad  Nazafar Bin Idris  Muhammad Bin Ismail  IENT  Shahril Bin Shariff  Ahmad Bin Noor Mohammed  Ishak Bin Salim  Kamarul Amirudin Bin Kamaruzaman  F  Doreen Khoo Say Kin						
Senior Keeper  RESEARCH & DEVELOPMENT  Training Coordinator  HORTICULTURE  Supervisor  MAINTENANCE & DEVELOPA  Executive  Supervisor Senior Handyman  Handyman  TANDAMA  ZOOLOGY  Curator  Assistant Curator	Sukor Bin Mohammad  Nazafar Bin Idris  Muhammad Bin Ismail  IENT  Shahril Bin Shariff  Ahmad Bin Noor Mohammed  Ishak Bin Salim  Kamarul Amirudin Bin Kamaruzaman  Doreen Khoo Say Kin  Herman Bernard Ganapathy						
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# STATISTICAL ANALYSIS





- □Staff Expenses 26%
- Veterinary Expenses 0.34%
- □Aquarium 0.57% □Reptiles 1.53%
- ■Birds 4.98%
- M ammals 8.22%
- Sea Lion/Penguin 0.47%
- □Kitchen 1.53%
- Children's World 0.13%
- ■Director 0.05%
- □Ground & Security 6.72% □ Administration 7.48%
- Vehicle Upkeep 0.39%
- Electricity & Water 6.5%
- M aint enance 8.8%
- Public Relations 1.14%
- ■Education 0.16% □ Horticulture 0.4%
- □ M arketing 0.13%
- □Hospital 0.01
- □ Depreciation & Provision 23.9%

# **Annual Income 2009**



- □Gate collection 86%
- □Subscription 0.1% □ Donation/Sponsorship 3%
- ■Interest on FD 1%
- □ Divident 0.4% Misc. Income 3%





# ANIMAL INVENTORY

#### **2009 CENSUS** CLASS SPECIES SPECIMEN 525 Mammals 90 126 1532 Birds Reptiles 57 236 181 3039 Fish 22 114 Amphibian 5446 Total 476 2008 CENSUS CLASS SPECIMEN SPECIES Mammals 93 548 127 1492 Birds 58 247 Reptiles 182 3044 Fish 22 482 106 5437 Amphibian Total **2007 CENSUS** SPECIMEN SPECIES CLASS Mammals 94 565 1342 127 Birds Reptiles 62 292 3075 Fish 177 Amphibian 18 87 5361 Total 478

# **CENSUS**

MAMMALS			<u>Viverridae</u>		
				Arctictis binturong	3.4.1
MARSUPIALIA			Small-Toothed Palm Civet	Arctogalidia trivirgata	1.0.0
<u>Macropodidae</u>			Common Palm Civet	Paradoxurus hermaphroditus	1.2.3
Grey Kangaroo	Macropus giganteus	1.0.0	Masked Palm Civet	Paguma larvata	2.2.0
Agile Wallaby	Macropus agilis	2.3.3	Malay civet	Viverra tangalunga	1.1.0
Red-Legged Pademelon	Thylogale stigmatica	7.3.4	Banded civet	Hemigalus derbyanus	1.0.0
Sugar gliders	Petaurus breviceps	2.3.2	<u>Felidae</u>		
CHIROPTERA			Leopard Cat	Prionailurus bengalensis	3.4.1
<u>Pteropodidae</u>			Flat-Headed Cat	Prionailurus planiceps	1.0.0
Malayan Flying Fox	Pteropus vampyrus	4.8.1	African Lion	Panthera leo	1.2.0
PRIMATES			Gir Lion	Panthera leo persica	1.1.0
<u>Ceboidea</u>		0.00	Leopard (Spotted)	Panthera pardus	0.1.0
Brown Capuchin Monkey	Cebus apella	2.0.0	Leopard (Black)	Panthera pardus	1.1.0
<u>Lorisidae</u>			Indochinese/Malayan Tiger	Panthera tigris jacksoni	1.2.0
Slow Loris	Nycticebus coucang	4.1.1	Sumatran Tiger	Panthera tigris (sumatrae)	1.0.0
<u>Ceboidea</u>			Bengal Tiger	Panthera tigris (tigris)	1.0.0
<u>Cercopithecus</u>			Puma	Profelis concolor	2.2.0
Blue Monkey	Cercopithecus mitis	0.1.0	PINNIPEDIA		
Vervet Monkey	Chlorocebus pygerythrus	1.1.0	<u>Otariidae</u>		
Stump-Tailed Macaque	Macaca arctoides	1.4.0	Californian Sealion	Zalophus californianus	1.0.0
Pig-Tailed Macaque	Macaca nemestrina	1.0.0	Cape Fur Seal	Arctocephalus pusillus	1.2.0
Bonnet Macaque	Macaca radiata	3.3.3	PROBOSCIDEA		
Long-Tailed Macaque	Macaca fascicularis	1.5.0	<u>Elephantidae</u>		
Rhesus Macaque	Macaca mulatta	0.1.0	Malayan Elephant	Elephas maximus hirsutus	1.2.0
Lion-Tailed Macaque	Macaca silenus	1.0.0	<u>Tapiridae</u>		
Anubis/Olive Baboon	Papio anubis	6.2.1	Malayan Tapir	Tapirus indicus	2.1.0
Common/Entellus Langur	Presbytis entellus	0.1.0	PERISSODACTYLA		
<u>Pongidae</u>			<u>Equidae</u>		
White Handed/Lar Gibbon	Hylobates lar	4.4.1	Common Zebra	Equus burchelli	3.5.0
	Hylobates syndactylus	2.1.0	Horse (miniature)	Equus caballus	2.0.0
Bornean Orangutan	Pongo pygmaeus	1.3.0	<u>Rhinocerotidae</u>		
Sumatran Orangutan	Pongo abelii	2.5.0	White Rhinoceros		1.2.0
Chimpanzee	Pan troglodytes	5.2.0	ARTIODACTYLA	Ceratotherium simum	
LAGOMORPHA			<u>Suidae</u>		
<u>Leporidae</u>			Bearded Pigs	Sus barbatus	2.2.0
Old World Rabbit		2.2.1	<u>Hippopotamidae</u>		
RODENTIA			Pygmy hippo	Hexaprotodon liberiensis	1.0.0
<u>Sciuridae</u>			Nile Hippo	Hippopotamus amphibius	2.3.0
Prevost Squirrel	Callosciurus prevosti	4.3.0	<u>Camelidae</u>		
Cream-coloured Giant Squirrel	Ratufa affinis	1.1.0	Arabian Camel/Dromedary	Camelus dromedarius	2.2.0
Black Tailed Praire Dog	Cynomys Iudovicianus			Lama guanico	1.0.0
Bamboo rat	Rhizomyini sumatrensis		Tragulidae		
Hystricidae					
			Lesser Mousedeer	Tragulus javanicus	
Malayan Porcupine	Hystrix brachyura	8.4.2	Lesser Mousedeer Greater Mousedeer	Tragulus javanicus Tragulus napu	1.1.1 1.0.0
<u>Caviidae</u>			Lesser Mousedeer Greater Mousedeer <u>Cervidae</u>	Tragulus napu	1.0.0
<u>Caviidae</u> Guinea Pig	Hystrix brachyura Cavia porcellus	8.4.2 0.0.17	Lesser Mousedeer Greater Mousedeer <u>Cervidae</u> Axis/Spotted Deer	Tragulus napu Axis axis	1.0.0 15.15.19
<u>Caviidae</u> Guinea Pig <u>Erinaceomorpha</u>	Cavia porcellus	0.0.17	Lesser Mousedeer Greater Mousedeer <u>Cervidae</u> Axis/Spotted Deer Hog Deer	Tragulus napu Axis axis Axis porcinus	1.0.0 15.15.19 6.13.3
<u>Caviidae</u> Guinea Pig <u>Erinaceomorpha</u> Hedgehog			Lesser Mousedeer Greater Mousedeer Cervidae Axis/Spotted Deer Hog Deer Javan Deer	Tragulus napu  Axis axis  Axis porcinus  Cervus timorensis	1.0.0 15.15.19 6.13.3 3.8.2
Caviidae Guinea Pig Erinaceomorpha Hedgehog Hyrochaeridae	Cavia porcellus Erinaceus europaeus	0.0.17	Lesser Mousedeer Greater Mousedeer Cervidae Axis/Spotted Deer Hog Deer Javan Deer Sambar Deer	Tragulus napu  Axis axis  Axis porcinus  Cervus timorensis  Cervus unicolor equinus	1.0.0 15.15.19 6.13.3 3.8.2 7.10.1
Caviidae Guinea Pig Erinaceomorpha Hedgehog Hyrochaeridae Capybara	Cavia porcellus	0.0.17	Lesser Mousedeer Greater Mousedeer Cervidae Axis/Spotted Deer Hog Deer Javan Deer Sambar Deer Barking Deer/Muntjak	Tragulus napu  Axis axis  Axis porcinus  Cervus timorensis	1.0.0 15.15.19 6.13.3 3.8.2
Caviidae Guinea Pig Erinaceomorpha Hedgehog Hyrochaeridae Capybara CARNIVORA	Cavia porcellus Erinaceus europaeus	0.0.17	Lesser Mousedeer Greater Mousedeer Cervidae Axis/Spotted Deer Hog Deer Javan Deer Sambar Deer Barking Deer/Muntjak Giraffidae	Tragulus napu  Axis axis Axis porcinus Cervus timorensis Cervus unicolor equinus Muntiacus muntjak pelharicus	1.0.0 15.15.19 6.13.3 3.8.2 7.10.1 1.8.0
Caviidae Guinea Pig Erinaceomorpha Hedgehog Hyrochaeridae Capybara	Cavia porcellus Erinaceus europaeus	0.0.17	Lesser Mousedeer Greater Mousedeer Cervidae Axis/Spotted Deer Hog Deer Javan Deer Sambar Deer Barking Deer/Muntjak Giraffidae Giraffe	Tragulus napu  Axis axis  Axis porcinus  Cervus timorensis  Cervus unicolor equinus	1.0.0 15.15.19 6.13.3 3.8.2 7.10.1
Caviidae Guinea Pig Erinaceomorpha Hedgehog Hyrochaeridae Capybara CARNIVORA Canidae Asiatic Wild Dog/Dhole	Cavia porcellus Erinaceus europaeus	0.0.17	Lesser Mousedeer Greater Mousedeer Cervidae Axis/Spotted Deer Hog Deer Javan Deer Sambar Deer Barking Deer/Muntjak Giraffidae	Tragulus napu  Axis axis Axis porcinus Cervus timorensis Cervus unicolor equinus Muntiacus muntjak pelharicus	1.0.0 15.15.19 6.13.3 3.8.2 7.10.1 1.8.0
Caviidae Guinea Pig Erinaceomorpha Hedgehog Hyrochaeridae Capybara CARNIVORA Canidae	Cavia porcellus  Erinaceus europaeus  Hydrochoerus hydrochaeris	0.0.17 0.1.3 1.2.3	Lesser Mousedeer Greater Mousedeer Cervidae Axis/Spotted Deer Hog Deer Javan Deer Sambar Deer Barking Deer/Muntjak Giraffidae Giraffe	Tragulus napu  Axis axis Axis porcinus Cervus timorensis Cervus unicolor equinus Muntiacus muntjak pelharicus Giraffa camelopardalis	1.0.0 15.15.19 6.13.3 3.8.2 7.10.1 1.8.0 5.9.0
Caviidae Guinea Pig Erinaceomorpha Hedgehog Hyrochaeridae Capybara CARNIVORA Canidae Asiatic Wild Dog/Dhole Ursidae Malayan Sun Bear	Cavia porcellus  Erinaceus europaeus  Hydrochoerus hydrochaeris  Cuan alpinus  Helarctos malayanus	0.0.17 0.1.3 1.2.3 1.1.0 2.6.0	Lesser Mousedeer Greater Mousedeer Cervidae Axis/Spotted Deer Hog Deer Javan Deer Sambar Deer Barking Deer/Muntjak Giraffidae Giraffe Red Lechwe Sable Antelope Bovidae	Tragulus napu  Axis axis Axis porcinus Cervus timorensis Cervus unicolor equinus Muntiacus muntjak pelharicus Giraffa camelopardalis Kobus leche leche	1.0.0 15.15.19 6.13.3 3.8.2 7.10.1 1.8.0 5.9.0 2.1.1 6.5.0
Caviidae Guinea Pig Erinaceomorpha Hedgehog Hyrochaeridae Capybara CARNIVORA Canidae Asiatic Wild Dog/Dhole Ursidae Malayan Sun Bear Asiatic Black Bear	Cavia porcellus  Erinaceus europaeus  Hydrochoerus hydrochaeris  Cuan alpinus  Helarctos malayanus Ursus thibetanus	0.0.17 0.1.3 1.2.3 1.1.0 2.6.0 1.1.0	Lesser Mousedeer Greater Mousedeer Cervidae Axis/Spotted Deer Hog Deer Javan Deer Sambar Deer Barking Deer/Muntjak Giraffidae Giraffe Red Lechwe Sable Antelope Bovidae Ankole Cattle	Tragulus napu  Axis axis Axis porcinus Cervus timorensis Cervus unicolor equinus Muntiacus muntjak pelharicus  Giraffa camelopardalis Kobus leche leche Hippotragus niger  Bos taurus	1.0.0 15.15.19 6.13.3 3.8.2 7.10.1 1.8.0 5.9.0 2.1.1 6.5.0
Caviidae Guinea Pig Erinaceomorpha Hedgehog Hyrochaeridae Capybara CARNIVORA Canidae Asiatic Wild Dog/Dhole Ursidae Malayan Sun Bear Asiatic Black Bear Brown Bear	Cavia porcellus  Erinaceus europaeus  Hydrochoerus hydrochaeris  Cuan alpinus  Helarctos malayanus	0.0.17 0.1.3 1.2.3 1.1.0 2.6.0	Lesser Mousedeer Greater Mousedeer Cervidae Axis/Spotted Deer Hog Deer Javan Deer Sambar Deer Barking Deer/Muntjak Giraffidae Giraffe Red Lechwe Sable Antelope Bovidae Ankole Cattle Malayan Gaur	Tragulus napu  Axis axis Axis porcinus Cervus timorensis Cervus unicolor equinus Muntiacus muntjak pelharicus  Giraffa camelopardalis Kobus leche leche Hippotragus niger  Bos taurus Bos gaurus hubbacki	1.0.0 15.15.19 6.13.3 3.8.2 7.10.1 1.8.0 5.9.0 2.1.1 6.5.0 4.4.0 1.2.0
Caviidae Guinea Pig Erinaceomorpha Hedgehog Hyrochaeridae Capybara CARNIVORA Canidae Asiatic Wild Dog/Dhole Ursidae Malayan Sun Bear Asiatic Black Bear Brown Bear Procyonidae	Cavia porcellus  Erinaceus europaeus  Hydrochoerus hydrochaeris  Cuan alpinus  Helarctos malayanus Ursus thibetanus	0.0.17 0.1.3 1.2.3 1.1.0 2.6.0 1.1.0 1.2.0	Lesser Mousedeer Greater Mousedeer Cervidae Axis/Spotted Deer Hog Deer Javan Deer Sambar Deer Barking Deer/Muntjak Giraffidae Giraffe Red Lechwe Sable Antelope Bovidae Ankole Cattle Malayan Gaur Indian Gaur	Tragulus napu  Axis axis Axis porcinus Cervus timorensis Cervus unicolor equinus Muntiacus muntjak pelharicus  Giraffa camelopardalis Kobus leche leche Hippotragus niger  Bos taurus Bos gaurus hubbacki Bos gaurus	1.0.0 15.15.19 6.13.3 3.8.2 7.10.1 1.8.0 5.9.0 2.1.1 6.5.0 4.4.0 1.2.0 10.2.1
Caviidae Guinea Pig Erinaceomorpha Hedgehog Hyrochaeridae Capybara CARNIVORA Canidae Asiatic Wild Dog/Dhole Ursidae Malayan Sun Bear Asiatic Black Bear Brown Bear	Cavia porcellus  Erinaceus europaeus  Hydrochoerus hydrochaeris  Cuan alpinus  Helarctos malayanus Ursus thibetanus	0.0.17 0.1.3 1.2.3 1.1.0 2.6.0 1.1.0	Lesser Mousedeer Greater Mousedeer Cervidae Axis/Spotted Deer Hog Deer Javan Deer Sambar Deer Barking Deer/Muntjak Giraffidae Giraffe Red Lechwe Sable Antelope Bovidae Ankole Cattle Malayan Gaur	Tragulus napu  Axis axis Axis porcinus Cervus timorensis Cervus unicolor equinus Muntiacus muntjak pelharicus  Giraffa camelopardalis Kobus leche leche Hippotragus niger  Bos taurus Bos gaurus hubbacki	1.0.0 15.15.19 6.13.3 3.8.2 7.10.1 1.8.0 5.9.0 2.1.1 6.5.0 4.4.0 1.2.0
Caviidae Guinea Pig Erinaceomorpha Hedgehog Hyrochaeridae Capybara CARNIVORA Canidae Asiatic Wild Dog/Dhole Ursidae Malayan Sun Bear Asiatic Black Bear Brown Bear Procyonidae Racoon Mustelidae	Cavia porcellus  Erinaceus europaeus  Hydrochoerus hydrochaeris  Cuan alpinus  Helarctos malayanus Ursus thibetanus Ursus arctos	0.0.17 0.1.3 1.2.3 1.1.0 2.6.0 1.1.0 1.2.0	Lesser Mousedeer Greater Mousedeer Cervidae Axis/Spotted Deer Hog Deer Javan Deer Sambar Deer Barking Deer/Muntjak Giraffidae Giraffe Red Lechwe Sable Antelope Bovidae Ankole Cattle Malayan Gaur Indian Gaur	Tragulus napu  Axis axis Axis porcinus Cervus timorensis Cervus unicolor equinus Muntiacus muntjak pelharicus  Giraffa camelopardalis Kobus leche leche Hippotragus niger  Bos taurus Bos gaurus hubbacki Bos gaurus	1.0.0 15.15.19 6.13.3 3.8.2 7.10.1 1.8.0 5.9.0 2.1.1 6.5.0 4.4.0 1.2.0 10.2.1
Caviidae Guinea Pig Erinaceomorpha Hedgehog Hyrochaeridae Capybara CARNIVORA Canidae Asiatic Wild Dog/Dhole Ursidae Malayan Sun Bear Asiatic Black Bear Brown Bear Procyonidae Racoon	Cavia porcellus  Erinaceus europaeus  Hydrochoerus hydrochaeris  Cuan alpinus  Helarctos malayanus Ursus thibetanus Ursus arctos	0.0.17 0.1.3 1.2.3 1.1.0 2.6.0 1.1.0 1.2.0	Lesser Mousedeer Greater Mousedeer Cervidae Axis/Spotted Deer Hog Deer Javan Deer Sambar Deer Barking Deer/Muntjak Giraffidae Giraffe Red Lechwe Sable Antelope Bovidae Ankole Cattle Malayan Gaur Indian Gaur Lowland Anoa	Tragulus napu  Axis axis Axis porcinus Cervus timorensis Cervus unicolor equinus Muntiacus muntjak pelharicus  Giraffa camelopardalis Kobus leche leche Hippotragus niger  Bos taurus Bos gaurus hubbacki Bos gaurus Bubalus depressicornis	1.0.0 15.15.19 6.13.3 3.8.2 7.10.1 1.8.0 5.9.0 2.1.1 6.5.0 4.4.0 1.2.0 10.2.1 1.1.0
Caviidae Guinea Pig Erinaceomorpha Hedgehog Hyrochaeridae Capybara CARNIVORA Canidae Asiatic Wild Dog/Dhole Ursidae Malayan Sun Bear Asiatic Black Bear Brown Bear Procyonidae Racoon Mustelidae	Cavia porcellus  Erinaceus europaeus  Hydrochoerus hydrochaeris  Cuan alpinus  Helarctos malayanus Ursus thibetanus Ursus arctos  Procyon lotor	0.0.17 0.1.3 1.2.3 1.1.0 2.6.0 1.1.0 1.2.0 3.0.0	Lesser Mousedeer Greater Mousedeer Cervidae Axis/Spotted Deer Hog Deer Javan Deer Sambar Deer Barking Deer/Muntjak Giraffidae Giraffe Red Lechwe Sable Antelope Bovidae Ankole Cattle Malayan Gaur Indian Gaur Lowland Anoa Banteng	Tragulus napu  Axis axis Axis porcinus Cervus timorensis Cervus unicolor equinus Muntiacus muntjak pelharicus  Giraffa camelopardalis Kobus leche leche Hippotragus niger  Bos taurus Bos gaurus hubbacki Bos gaurus Bubalus depressicornis Bos javanicus	1.0.0 15.15.19 6.13.3 3.8.2 7.10.1 1.8.0 5.9.0 2.1.1 6.5.0 4.4.0 1.2.0 10.2.1 1.1.0 20.7.0
Caviidae Guinea Pig Erinaceomorpha Hedgehog Hyrochaeridae Capybara CARNIVORA Canidae Asiatic Wild Dog/Dhole Ursidae Malayan Sun Bear Asiatic Black Bear Brown Bear Procyonidae Racoon Mustelidae Ferret	Cavia porcellus  Erinaceus europaeus  Hydrochoerus hydrochaeris  Cuan alpinus  Helarctos malayanus Ursus thibetanus Ursus arctos  Procyon lotor  Mustela putorius furo	0.0.17 0.1.3 1.2.3 1.1.0 2.6.0 1.1.0 1.2.0 3.0.0 1.1.0	Lesser Mousedeer Greater Mousedeer Cervidae Axis/Spotted Deer Hog Deer Javan Deer Sambar Deer Barking Deer/Muntjak Giraffidae Giraffe Red Lechwe Sable Antelope Bovidae Ankole Cattle Malayan Gaur Indian Gaur Lowland Anoa Banteng Scimitar-Horned Oryx	Tragulus napu  Axis axis Axis porcinus Cervus timorensis Cervus unicolor equinus Muntiacus muntjak pelharicus  Giraffa camelopardalis Kobus leche leche Hippotragus niger  Bos taurus Bos gaurus hubbacki Bos gaurus Bubalus depressicornis Bos javanicus Oryx dammah	1.0.0 15.15.19 6.13.3 3.8.2 7.10.1 1.8.0 5.9.0 2.1.1 6.5.0 4.4.0 1.2.0 10.2.1 1.1.0 20.7.0 0.2.0
Caviidae Guinea Pig Erinaceomorpha Hedgehog Hyrochaeridae Capybara CARNIVORA Canidae Asiatic Wild Dog/Dhole Ursidae Malayan Sun Bear Asiatic Black Bear Brown Bear Procyonidae Racoon Mustelidae Ferret Small-Clawed Otter	Cavia porcellus  Erinaceus europaeus  Hydrochoerus hydrochaeris  Cuan alpinus  Helarctos malayanus Ursus thibetanus Ursus arctos  Procyon lotor  Mustela putorius furo	0.0.17 0.1.3 1.2.3 1.1.0 2.6.0 1.1.0 1.2.0 3.0.0 1.1.0	Lesser Mousedeer Greater Mousedeer Cervidae Axis/Spotted Deer Hog Deer Javan Deer Sambar Deer Barking Deer/Muntjak Giraffidae Giraffe Red Lechwe Sable Antelope Bovidae Ankole Cattle Malayan Gaur Indian Gaur Lowland Anoa Banteng Scimitar-Horned Oryx Oryx X Gemsbok	Tragulus napu  Axis axis Axis porcinus Cervus timorensis Cervus unicolor equinus Muntiacus muntjak pelharicus  Giraffa camelopardalis Kobus leche leche Hippotragus niger  Bos taurus Bos gaurus hubbacki Bos gaurus Bubalus depressicornis Bos javanicus Oryx dammah Oryx hybrid	1.0.0  15.15.19 6.13.3 3.8.2 7.10.1 1.8.0 5.9.0 2.1.1 6.5.0 4.4.0 1.2.0 10.2.1 1.1.0 20.7.0 0.2.0 1.0.0
Caviidae Guinea Pig Erinaceomorpha Hedgehog Hyrochaeridae Capybara CARNIVORA Canidae Asiatic Wild Dog/Dhole Ursidae Malayan Sun Bear Asiatic Black Bear Brown Bear Procyonidae Racoon Mustelidae Ferret Small-Clawed Otter Hyaenidae	Cavia porcellus  Erinaceus europaeus  Hydrochoerus hydrochaeris  Cuan alpinus  Helarctos malayanus Ursus thibetanus Ursus arctos  Procyon lotor  Mustela putorius furo Aonyx cinerea	0.0.17 0.1.3 1.2.3 1.1.0 2.6.0 1.1.0 1.2.0 3.0.0 1.1.0 9.1.2	Lesser Mousedeer Greater Mousedeer Cervidae Axis/Spotted Deer Hog Deer Javan Deer Sambar Deer Barking Deer/Muntjak Giraffidae Giraffe Red Lechwe Sable Antelope Bovidae Ankole Cattle Malayan Gaur Indian Gaur Lowland Anoa Banteng Scimitar-Horned Oryx Oryx X Gemsbok Nyala	Tragulus napu  Axis axis Axis porcinus Cervus timorensis Cervus unicolor equinus Muntiacus muntjak pelharicus  Giraffa camelopardalis Kobus leche leche Hippotragus niger  Bos taurus Bos gaurus hubbacki Bos gaurus Bubalus depressicornis Bos javanicus Oryx dammah Oryx hybrid Tragelaphus angasi	1.0.0  15.15.19 6.13.3 3.8.2 7.10.1 1.8.0  5.9.0 2.1.1 6.5.0  4.4.0 1.2.0 10.2.1 1.1.0 20.7.0 0.2.0 1.0.0 0.1.0



# CENSUS

STRUTHIONIFORMES Struthionidae		
Ostrich	Struthio camelus	2.4
CASUARIIFORMES	Citatino Camerao	
<u>Dromaiidae</u>		
Emu	Dromaius novaehollandiae	5.5.
Double-Wattled Cassowary	Casuarius casuarius	
SPHENISCIFORMES		
<u>Spheniscus</u>		
Humboldt Penguin	Spheniscus humboldti	2.0
PELECANIFORMES		
<u>Pelencanidae</u>		
Eastern White Pelican Pink-Backed Pelican	Pelecanus onocrotalus	2.0
CICONIIFORMES	Pelecanus rufescens	13.18
Phalacrocoracidae		_
Great Cormorant	Phalacrocorax carbo	0.1
<u>Ardea</u>		
Little Green Heron	Butroides virescens	2.2
Black Crowned Night Heron	Nycticorax nycticorax	20.20.
Cattle Egret	Bubulcus ibis	
<u>Ciconiidae</u>		
Storm Stork	Ciconia stormi	0.1
Marabou Stork	Leptoptilos crumeniferus	
Milky Stork	Mycteria cinerea	12.12.
Painted Stork		50.50.5
Milky x Painted Stork	M. cinerea x M. leucocephala	0.0
Black-Neck Stork Threskiornithidae	Ephippiorhynchus asiaticus	
Trireskiomitriidae Black -Headed Ibis	Threskiornis melanocephalus	5.4
African Spoonbill	Platalea alba	2.2
Greater Flamingo	Phoenicopterus ruber	24.20.
Caribbean Flamingo	Phoenicopterus ruber ruber	0.0.
ANSERIFORMES		
<u>Anatidae</u>		
Black Swan	Cygnus atratus	
Mandarin Duck	Aix galericulata	2.1
Mute Swan	Cygnus olor	2.0
FALCONIFORMES		
<u>Accipitridae</u>		
White-Bellied Sea Eagle	Haliaeetus leucogaster	
Brahminy Kite	Haliastur indus	0.0
Dlack Mite	Milvus migrans	
Black Kite		
Crested Serpent Eagle	Spilornis cheela	
Crested Serpent Eagle Blyth's Hawk Eagle		
Crested Serpent Eagle Blyth's Hawk Eagle GALLIFORMES	Spilornis cheela	
Crested Serpent Eagle Blyth's Hawk Eagle GALLIFORMES <u>Cracidae</u>	Spilornis cheela Spizaeus alboniger	0.0
Crested Serpent Eagle Blyth's Hawk Eagle GALLIFORMES <u>Cracidae</u> Greater Currasow	Spilornis cheela	0.0
Crested Serpent Eagle Blyth's Hawk Eagle GALLIFORMES <u>Cracidae</u>	Spilornis cheela Spizaeus alboniger	1.
Crested Serpent Eagle Blyth's Hawk Eagle GALLIFORMES Cracidae Greater Currasow Phasianidae	Spilornis cheela Spizaeus alboniger Crax rubra	1.:
Crested Serpent Eagle Blyth's Hawk Eagle GALLIFORMES Cracidae Greater Currasow Phasianidae Chukar	Spilornis cheela Spizaeus alboniger  Crax rubra  Alectoris chukar	1.: 2.2 0.0
Crested Serpent Eagle Blyth's Hawk Eagle  GALLIFORMES  Cracidae  Greater Currasow  Phasianidae  Chukar Blue-Breasted Quail	Spilornis cheela Spizaeus alboniger  Crax rubra  Alectoris chukar Coturnix chinensis	0.0 1.7 2.2 0.0 6.6
Crested Serpent Eagle Blyth's Hawk Eagle  GALLIFORMES  Cracidae  Greater Currasow  Phasianidae  Chukar  Blue-Breasted Quail  Great Argus	Spilornis cheela Spizaeus alboniger  Crax rubra  Alectoris chukar Coturnix chinensis Argusianus argus	1.° 2.2 0.0 6.6 4.5
Crested Serpent Eagle Blyth's Hawk Eagle GALLIFORMES Cracidae Greater Currasow Phasianidae Chukar Blue-Breasted Quail Great Argus Golden Pheasant Serama Red Jungle Fowl	Spilornis cheela Spizaeus alboniger  Crax rubra  Alectoris chukar Coturnix chinensis Argusianus argus Chrysolophus pictus Gallus gallus (Bantam) Gallus gallus	0.0 1.: 2.2 0.0 6.6 4.5 4.3. 3.3
Crested Serpent Eagle Blyth's Hawk Eagle GALLIFORMES Cracidae Greater Currasow Phasianidae Chukar Blue-Breasted Quail Great Argus Golden Pheasant Serama Red Jungle Fowl Green Jungle Fowl	Spilornis cheela Spizaeus alboniger  Crax rubra  Alectoris chukar Coturnix chinensis Argusianus argus Chrysolophus pictus Gallus gallus (Bantam) Gallus gallus Gallus varius	1.° 2.2 0.0 6.6 4.5 4.3. 3.3
Crested Serpent Eagle Blyth's Hawk Eagle GALLIFORMES Cracidae Greater Currasow Phasianidae Chukar Blue-Breasted Quail Great Argus Golden Pheasant Serama Red Jungle Fowl Green Jungle Fowl Crestless Fireback	Spilornis cheela Spizaeus alboniger  Crax rubra  Alectoris chukar Coturnix chinensis Argusianus argus Chrysolophus pictus Gallus gallus (Bantam) Gallus gallus Gallus varius Lophura erythropthalma	1.° 2.2 0.0 6.6 4.5 4.3. 3.3 2.1
Crested Serpent Eagle Blyth's Hawk Eagle  GALLIFORMES  Cracidae Greater Currasow Phasianidae Chukar Blue-Breasted Quail Great Argus Golden Pheasant Serama Red Jungle Fowl Green Jungle Fowl Crestless Fireback Crested fireback	Spilornis cheela Spizaeus alboniger  Crax rubra  Alectoris chukar Coturnix chinensis Argusianus argus Chrysolophus pictus Gallus gallus (Bantam) Gallus gallus Gallus varius Lophura erythropthalma Lophura ignita ignita	1.1 2.2 0.0 6.6 4.5 4.3. 3.3 2.1 13.13 5.2
Crested Serpent Eagle Blyth's Hawk Eagle  GALLIFORMES  Cracidae Greater Currasow  Phasianidae  Chukar Blue-Breasted Quail Great Argus Golden Pheasant Serama  Red Jungle Fowl Green Jungle Fowl Crestless Fireback Crested fireback Silver Pheasant	Spilornis cheela Spizaeus alboniger  Crax rubra  Alectoris chukar Coturnix chinensis Argusianus argus Chrysolophus pictus Gallus gallus (Bantam) Gallus gallus Lophura erythropthalma Lophura ignita ignita Lophura nycthemera	1.: 2.2 0.0 6.6 4.3 3.3 2.1 13.13 5.2 6.5
Crested Serpent Eagle Blyth's Hawk Eagle GALLIFORMES Cracidae Greater Currasow Phasianidae Chukar Blue-Breasted Quail Great Argus Golden Pheasant Serama Red Jungle Fowl Crestless Fireback Crested fireback Silver Pheasant Common Peafowl	Spilornis cheela Spizaeus alboniger  Crax rubra  Alectoris chukar Coturnix chinensis Argusianus argus Chrysolophus pictus Gallus gallus (Bantam) Gallus gallus Lophura erythropthalma Lophura ignita ignita Lophura nycthemera Pavo cristatus	1.4 2.2 0.0 6.6 4.5 4.3. 3.3 2.1 13.13 5.2 6.5 8.12.
Crested Serpent Eagle Blyth's Hawk Eagle GALLIFORMES Cracidae Greater Currasow Phasianidae Chukar Blue-Breasted Quail Great Argus Golden Pheasant Serama Red Jungle Fowl Grestless Fireback Crestled fireback Silver Pheasant Common Peafowl Mountain/Rothschild's Peacock Ph	Spilornis cheela Spizaeus alboniger  Crax rubra  Alectoris chukar Coturnix chinensis Argusianus argus Chrysolophus pictus Gallus gallus (Bantam) Gallus gallus Gallus varius Lophura erythropthalma Lophura ignita ignita Lophura nycthemera Pavo cristatus ueasant Polyplectron inopinatum	1.4 2.2 0.0 6.6 4.5 4.3. 3.3 2.1 13.13 5.2 6.5 8.12. 6.1
Crested Serpent Eagle Blyth's Hawk Eagle GALLIFORMES Cracidae Greater Currasow Phasianidae Chukar Blue-Breasted Quail Great Argus Golden Pheasant Serama Red Jungle Fowl Crestless Fireback Crested fireback Silver Pheasant Common Peafowl	Spilornis cheela Spizaeus alboniger  Crax rubra  Alectoris chukar Coturnix chinensis Argusianus argus Chrysolophus pictus Gallus gallus (Bantam) Gallus gallus Lophura erythropthalma Lophura ignita ignita Lophura nycthemera Pavo cristatus	1.7 2.2 0.0 6.6 4.5 4.3. 3.3 2.1 13.13 5.2 6.5 8.12. 6.1

Helmeted Guineafowl	Numida meleagris	0.0.2
GRUIFORMES	Namida moloagno	0.0.2
Rallidae		
White-Breasted Water Hen	Amaurornis phoenicurus	
COLUMBIFORMES		
<u>Columbidae</u>		
Nicobar Pigeon	Caloenas nicobarica	5.4.1
Emerald/Green-Winged Dove	Chalcophaps indica	4.2.0
JavaneseTurtle/Collared Dove	Streptopelia bitorquata	0.0.2
Spotted(Necked) Dove	Streptopelia chinensis	0.0.2
Rock Dove	Columba livia	0.0.67
Green Imperial Pigeon	Ducula aenea	0.0.6
Pied Imperial Pigeon	Ducula bicolor	
Zebra/Peaceful Dove/Merbok	Geopelia striata	4.0.0
Pink-Necked Green Pigeon	Treron vernans	3.2.0
PSITTACIFORMES		
<u>Loriidae</u>		
Black Lorikeet	Chalcopsitta atra	
Chattering Lory	Domicella garrula	
Blue Crowned Hanging Parrot	Loriculus galgulus	0.0.2
<u>Cacatuidae</u>		
Salmon-Crested Cockatoo	Cacatua moluccensis	1.0.0
Sulphur-Crested Cockatoo	Cacatua galerita	2.0.1
Lesser Sulphur-Crested Cockatoo	Cacatua sulphurea	0.1.0
Little Corella	Cacatua sanguinea	0.0.2
White crested-Cackatoo / White Cacka	too Cacatua alba	1.2.0
Psittacidae Fischer's Lovebird	Aganamia fisahari	45 45 40
Black-Masked Lovebird	Agapornis fischeri	15.15.40 0.0.1
Blue and Yellow Macaw	Agapornis personatus Ara ararauna	0.0.1
Green-Winged Macaw	Ara chloropterus	1.0.1
Scarlet Macaw	Ara macao	0.1.0
Eclectus Parrot	Eclectus roratus	1.0.0
African Grey Parrot	Psittacus erithacus	0.0.4
Lesser African Grey Parrot	Psittacus erithacus	0.0.1
Blue-fronted Amazon	Amazona aestiva	1.1.0
Ring-Necked/Rose-Ringed Parakeet	Psittacula krameri	2.0.0
Patagonian conure	Cyanoliseus patagonus	0.0.1
CUCULIFORMES		
<u>Musophadidae</u>		
White-Bellied Go-Away Bird	Corythaixoides leucogaster	1.0.0
<u>Cuculifdae</u>		
Koel	Eudynamys scolopacea	3.3.0
STRIGIFORMES		
<u>Tytonidae</u>		
Barn Owl	Tyto alba	
<u>Strigidae</u>		
Barred Eagle Owl	Bubo sumatranus	0.0.3
Malay Buffy Fish Owl	Ketupa ketupu	5.3.2
Scops Owl	Otus ireneae	0.1.0
Spotted Wood Owl	Strix seloputo	0.0.3
CORACIIFORMES		
<u>Bucerotidae</u>		
Oriental Pied Hornbill	Anthracoceros albirostris	1.1.2
Black Hornbill	Anthracoceros malayanus	0.0.4
Wrinkled Hornbill Wreathed Hornbill	Aceros corrugatus	1.2.6 1.2.0
White-Crested Hornbill	Aceros undulatus Berenicornis comatus	1.2.0
Bushy-Crested Hornbill Greater Hornbill	Anorrhinus galeritus	0.1.1
Rhinoceros Hornbill	Buceros bicornis Buceros rhinoceros	6.3.0 4.2.1
African Ground Hornbill	Buceros minoceros  Bucorvus leadbeateri	0.1.0
PASSERIFORMES	Ducorvus leadbeaterr	0.1.0
Pycononotidae		
Grey -Bellied Bulbul	Pycnonotus cyaniventris	0.0.1
Stripe -Throated Bulbul	Pycnonotus finlaysoni	0.0.1
- Other Throated Dalbai	- yononotao milaysom	0.0.2

Red-Whiskered Bulbul Pycnonotus jocosus 0.0.2 Black-Crested Bulbul Pycnonotus melanicterus 0.0.1 Black-Headed Bulbul Pycnonotus atriceps 0.0.1 Straw-Crowned Bulbul Pycnonotus atriceps 0.0.1 Sooty-headed Bulbul Pycnonotus aurigaster 0.0.1 Collared Finch-Billed Bulbul Spizixos semitorques 0.0.1 Colraceous Bulbul Alophoixus ochraceus 0.0.2 Irenidae Fairy Bluebird Irena puella 2.1.0 Muscicapidae Magpie Robin Copsychus saularis 3.1.0 Black-Throated Laughing Thrush Garrulax chinensis 0.0.1 Red-Tailed Laughing Thrush Garrulax milratus 0.0.1 Chestnut-Capped Laughing Thrush Garrulax milratus 0.0.1 White-Crested Laughing Thrush Garrulax milratus 0.0.1 Estrildidae Java Sparrow Padda oryzivora 0.0.1 Estrildidae Baya Weaver Ploceus philippinus 0.0.2 Sturmidae Common Myna Acridotheres tristis 0.0.2 Glossy Starling Aplonis panayensis 1.0.2 Oriolidae Black-Naped Oriole Oriolus chinensis 0.0.2 Corvidae Blue Magpie Urocissa erythrorhyncha 0.0.4 Capitonidae Lineated Barbet Megalaima lineata 0.0.1 Golden-Whiskered Barbet Megalaima franklinii 0.0.1			
Black-Crested Bulbul Pycnonotus melanicterus 0.0.1 Black-Headed Bulbul Pycnonotus atriceps 0.0.1 Straw-Crowned Bulbul Pycnonotus zeylanicus 1.0.0 Sooty-headed Bulbul Pycnonotus aurigaster 0.0.1 Collared Finch-Billed Bulbul Spizixos semitorques 0.0.2 Irenidae Fairy Bluebird Irena puella 2.1.0 Muscicapidae Magpie Robin Copsychus saularis 3.1.0 Black-Throated Laughing Thrush Garrulax chinensis 0.0.1 Chestnut-Capped Laughing Thrush Garrulax milnei 0.0.1 Chestnut-Capped Laughing Thrush Garrulax mitratus 0.0.1 Pekin Robin/Red Billed Leothrix Leiothrix lutea 0.0.1 Estrildidae Java Sparrow Padda oryzivora 0.0.1 Ploceidae Baya Weaver Ploceus philippinus 0.0.2 Sturmidae Common Myna Acridotheres tristis 0.0.5 Hill Myna Gracula religiosa 0.0.2 Glossy Starling Aplonis panayensis 1.0.2 Oriolidae Black-Naped Oriole Oriolus chinensis 0.0.1 Capitonidae Blue Magpie Urocissa erythrorhyncha 0.0.4 Capitonidae Lineated Barbet Megalaima lineata 0.0.1 Brown Barbet Calorhamphus fuliginosus 0.0.1	Yellow-Vented Bulbul	Pycnonotus goiavier	0.0.3
Black-Headed Bulbul Pycnonotus atriceps 0.0.1 Straw-Crowned Bulbul Pycnonotus zeylanicus 1.0.0 Sooty-headed Bulbul Pycnonotus zeylanicus 1.0.0 Collared Finch-Billed Bulbul Spizixos semitorques 0.0.1 Collared Finch-Billed Bulbul Alophoixus ochraceus 0.0.2 Itenidae Fairy Bluebird Irena puella 2.1.0 Muscicapidae Magpie Robin Copsychus saularis 3.1.0 Black-Throated Laughing Thrush Garrulax chinensis 0.0.1 Red-Tailed Laughing Thrush Garrulax milnei 0.0.1 Chestnut-Capped Laughing Thrush Garrulax milnei 0.0.1 Chestnut-Capped Laughing Thrush Garrulax leucolophus 0.0.6 Pekin Robin/Red Billed Leothrix Leiothrix lutea 0.0.1 Estrildidae Java Sparrow Padda oryzivora 0.0.1 Ploceidae Baya Weaver Ploceus philippinus 0.0.2 Sturmidae Common Myna Acridotheres tristis 0.0.5 Hill Myna Gracula religiosa 0.0.2 Glossy Starling Aplonis panayensis 1.0.2 Oriolidae Black-Naped Oriole Oriolus chinensis 0.0.2 Corvidae Blue Magpie Urocissa erythrorhyncha 0.0.4 Capitonidae Lineated Barbet Megalaima lineata 0.0.1 Golden-Whiskered Barbet Megalaima franklinii 0.0.1 Brown Barbet Calorhamphus fuliginosus 0.0.1	Red-Whiskered Bulbul	Pycnonotus jocosus	0.0.2
Straw-Crowned Bulbul Pycnonotus zeylanicus 1.0.0 Sooty-headed Bulbul Pycnonotus aurigaster 0.0.1 Collared Finch-Billed Bulbul Spizixos semitorques 0.0.1 Ochraceous Bulbul Alophoixus ochraceus 0.0.2 Itenidae Fairy Bluebird Irena puella 2.1.0 Muscicapidae Magpie Robin Copsychus saularis 3.1.0 Black-Throated Laughing Thrush Garrulax chinensis 0.0.1 Red-Tailed Laughing Thrush Garrulax milnei 0.0.1 Chestnut-Capped Laughing Thrush Garrulax milnei 0.0.1 White-Crested Laughing Thrush Garrulax milratus 0.0.1 White-Crested Laughing Thrush Garrulax leucolophus 0.0.6 Pekin Robin/Red Billed Leothrix Leiothrix lutea 0.0.1 Estrildidae Java Sparrow Padda oryzivora 0.0.1 Ploceidae Baya Weaver Ploceus philippinus 0.0.2 Sturmidae Common Myna Acridotheres tristis 0.0.5 Hill Myna Gracula religiosa 0.0.2 Glossy Starling Aplonis panayensis 1.0.2 Oriolidae Black-Naped Oriole Oriolus chinensis 0.0.2 Corvidae Blue Magpie Urocissa erythrorhyncha 0.0.4 Capitonidae Lineated Barbet Megalaima lineata 0.0.1 Golden-Whiskered Barbet Megalaima franklinii 0.0.1 Brown Barbet Calorhamphus fuliginosus 0.0.1	Black-Crested Bulbul	Pycnonotus melanicterus	0.0.1
Sooty-headed Bulbul Pycnonotus aurigaster 0.0.1 Collared Finch-Billed Bulbul Spizixos semitorques 0.0.1 Ochraceous Bulbul Alophoixus ochraceus 0.0.2 Irenidae Fairy Bluebird Irena puella 2.1.0 Muscicapidae Magpie Robin Copsychus saularis 3.1.0 Black-Throated Laughing Thrush Garrulax chinensis 0.0.1 Red-Tailed Laughing Thrush Garrulax milnei 0.0.1 Chestnut-Capped Laughing Thrush Garrulax milnei 0.0.1 Chestnut-Capped Laughing Thrush Garrulax milrei 0.0.1 Chestnut-Capped Laughing Thrush Garrulax leucolophus 0.0.6 Pekin Robin/Red Billed Leothrix Leiothrix lutea 0.0.1 Estrildidae Java Sparrow Padda oryzivora 0.0.1 Eloceidae Baya Weaver Ploceus philippinus 0.0.2 Sturmidae Common Myna Acridotheres tristis 0.0.5 Hill Myna Gracula religiosa 0.0.2 Glossy Starling Aplonis panayensis 1.0.2 Oriolidae Black-Naped Oriole Oriolus chinensis 0.0.2 Corvidae Blue Magpie Urocissa erythrorhyncha 0.0.4 Capitonidae Lineated Barbet Megalaima lineata 0.0.1 Golden-Throated Barbet Megalaima franklinii 0.0.1 Brown Barbet Calorhamphus fuliginosus 0.0.1	Black-Headed Bulbul	Pycnonotus atriceps	0.0.1
Collared Finch-Billed Bulbul Spizixos semitorques 0.0.1 Ochraceous Bulbul Alophoixus ochraceus 0.0.2 Irenidae Fairy Bluebird Irena puella 2.1.0 Muscicapidae Magpie Robin Copsychus saularis 3.1.0 Black-Throated Laughing Thrush Garrulax chinensis 0.0.1 Red-Tailed Laughing Thrush Garrulax milnei 0.0.1 Chestnut-Capped Laughing Thrush Garrulax mitratus 0.0.1 White-Crested Laughing Thrush Garrulax leucolophus 0.0.6 Pekin Robin/Red Billed Leothrix Leiothrix lutea 0.0.1 Estrildidae Java Sparrow Padda oryzivora 0.0.1 Eloceidae Baya Weaver Ploceus philippinus 0.0.2 Sturmidae Common Myna Acridotheres tristis 0.0.5 Hill Myna Gracula religiosa 0.0.2 Glossy Starling Aplonis panayensis 1.0.2 Oriolidae Black-Naped Oriole Oriolus chinensis 0.0.2 Corvidae Blue Magpie Urocissa erythrorhyncha 0.0.4 Capitonidae Lineated Barbet Megalaima lineata 0.0.1 Golden-Whiskered Barbet Megalaima franklinii 0.0.1 Brown Barbet Calorhamphus fuliginosus 0.0.1	Straw-Crowned Bulbul	Pycnonotus zeylanicus	1.0.0
Ochraceous Bulbul Alophoixus ochraceus 0.0.2  Irenidae Fairy Bluebird Irena puella 2.1.0  Muscicapidae Magpie Robin Copsychus saularis 3.1.0 Black-Throated Laughing Thrush Garrulax chinensis 0.0.1 Chestnut-Capped Laughing Thrush Garrulax milnei 0.0.1 Chestnut-Capped Laughing Thrush Garrulax mitratus 0.0.1 White-Crested Laughing Thrush Garrulax leucolophus 0.0.6 Pekin Robin/Red Billed Leothrix Leiothrix lutea 0.0.1  Estrildidae Java Sparrow Padda oryzivora 0.0.1  Ploceidae Baya Weaver Ploceus philippinus 0.0.2  Sturmidae Common Myna Acridotheres tristis 0.0.5 Hill Myna Gracula religiosa 0.0.2 Glossy Starling Aplonis panayensis 1.0.2  Oriolidae Black-Naped Oriole Oriolus chinensis 0.0.2  Corvidae Blue Magpie Urocissa erythrorhyncha 0.0.4  Capitonidae Lineated Barbet Megalaima lineata 0.0.1 Golden-Whiskered Barbet Megalaima chrysopogon 0.0.1 Brown Barbet Calorhamphus fuliginosus 0.0.1	Sooty-headed Bulbul	Pycnonotus aurigaster	0.0.1
Irenidae	Collared Finch-Billed Bulbul	Spizixos semitorques	0.0.1
Fairy Bluebird Irena puella 2.1.0  Muscicapidae  Magpie Robin Copsychus saularis 3.1.0  Black-Throated Laughing Thrush Garrulax chinensis 0.0.1  Red-Tailed Laughing Thrush Garrulax milnei 0.0.1  Chestnut-Capped Laughing Thrush Garrulax mitratus 0.0.1  White-Crested Laughing Thrush Garrulax leucolophus 0.0.6  Pekin Robin/Red Billed Leothrix Leiothrix lutea 0.0.1  Estrildidae  Java Sparrow Padda oryzivora 0.0.1  Ploceidae  Baya Weaver Ploceus philippinus 0.0.2  Sturmidae  Common Myna Acridotheres tristis 0.0.5  Hill Myna Gracula religiosa 0.0.2  Glossy Starling Oriolidae  Black-Naped Oriole Oriolus chinensis 0.0.2  Corvidae  Blue Magpie Urocissa erythrorhyncha 0.0.4  Capitonidae  Lineated Barbet Megalaima lineata 0.0.1  Golden-Whiskered Barbet Megalaima franklinii 0.0.1  Brown Barbet Calorhamphus fuliginosus 0.0.1	Ochraceous Bulbul	Alophoixus ochraceus	0.0.2
Muscicapidae         Magpie Robin       Copsychus saularis       3.1.0         Black-Throated Laughing Thrush       Garrulax chinensis       0.0.1         Red-Tailed Laughing Thrush       Garrulax milnei       0.0.1         Chestnut-Capped Laughing Thrush       Garrulax mitratus       0.0.1         White-Crested Laughing Thrush       Garrulax leucolophus       0.0.6         Pekin Robin/Red Billed Leothrix       Leiothrix lutea       0.0.1         Estrildidae       Java Sparrow       Padda oryzivora       0.0.1         Ploceidae       Baya Weaver       Ploceus philippinus       0.0.2         Sturmidae       Common Myna       Acridotheres tristis       0.0.5         Hill Myna       Gracula religiosa       0.0.2         Glossy Starling       Aplonis panayensis       1.0.2         Oriolidae       Black-Naped Oriole       Oriolus chinensis       0.0.2         Corvidae       Blue Magpie       Urocissa erythrorhyncha       0.0.4         Capitonidae       Lineated Barbet       Megalaima lineata       0.0.1         Golden-Whiskered Barbet       Megalaima franklinii       0.0.1         Brown Barbet       Calorhamphus fuliginosus       0.0.1	<u>Irenidae</u>		
Magpie Robin Copsychus saularis 3.1.0 Black-Throated Laughing Thrush Garrulax chinensis 0.0.1 Red-Tailed Laughing Thrush Garrulax milnei 0.0.1 Chestnut-Capped Laughing Thrush Garrulax mitratus 0.0.1 White-Crested Laughing Thrush Garrulax leucolophus 0.0.6 Pekin Robin/Red Billed Leothrix Leiothrix lutea 0.0.1  Estrildidae Java Sparrow Padda oryzivora 0.0.1  Ploceidae Baya Weaver Ploceus philippinus 0.0.2  Sturmidae Common Myna Acridotheres tristis 0.0.5 Hill Myna Gracula religiosa 0.0.2  Glossy Starling Aplonis panayensis 1.0.2  Oriolidae Black-Naped Oriole Oriolus chinensis 0.0.2  Convidae Blue Magpie Urocissa erythrorhyncha 0.0.4  Capitonidae Lineated Barbet Megalaima lineata 0.0.1 Golden-Whiskered Barbet Megalaima chrysopogon 0.0.1 Brown Barbet Calorhamphus fuliginosus 0.0.1	Fairy Bluebird	Irena puella	2.1.0
Black-Throated Laughing Thrush Red-Tailed Laughing Thrush Garrulax milnei  0.0.1 Chestnut-Capped Laughing Thrush Garrulax milnei  0.0.1 White-Crested Laughing Thrush Pekin Robin/Red Billed Leothrix Estrildidae Java Sparrow Padda oryzivora  Ploceidae Baya Weaver Ploceus philippinus  Sturmidae Common Myna Acridotheres tristis 0.0.5 Hill Myna Gracula religiosa 0.0.2 Glossy Starling Oriolidae Black-Naped Oriole Corvidae Blue Magpie Urocissa erythrorhyncha Capitonidae Lineated Barbet Golden-Whiskered Barbet Megalaima lineata Golden-Throated Barbet Megalaima franklinii Do.1 Brown Barbet Calorhamphus fuliginosus 0.0.1	<u>Muscicapidae</u>		
Red-Tailed Laughing Thrush Chestnut-Capped Laughing Thrush White-Crested Laughing Thrush Pekin Robin/Red Billed Leothrix  Baya Weaver Common Myna Hill Myna Gracular religiosa Glossy Starling Driolidae Black-Naped Oriole Convidae Blue Magpie Urocissa erythrorhyncha Capitonidae Lineated Barbet Golden-Throated Barbet Megalaima franklinii Dould.	Magpie Robin	Copsychus saularis	3.1.0
Chestnut-Capped Laughing Thrush White-Crested Laughing Thrush Pekin Robin/Red Billed Leothrix  Estrildidae  Java Sparrow Padda oryzivora Ploceidae Baya Weaver Sturnidae Common Myna Hill Myna Gracula religiosa Glossy Starling Oriolidae Black-Naped Oriole Corvidae Blue Magpie Lineated Barbet Golden-Whiskered Barbet Golden-Throated Barbet Megalaima franklinii Doulo 0.0.1  Golden-Throated Barbet Conolidae C	Black-Throated Laughing Thrush	Garrulax chinensis	0.0.1
White-Crested Laughing Thrush Pekin Robin/Red Billed Leothrix  Estrildidae Java Sparrow Padda oryzivora Jeceidae Baya Weaver Sturmidae Common Myna Hill Myna Gracula religiosa Glossy Starling Oriolidae Black-Naped Oriole Corvidae Blue Magpie Lineated Barbet Golden-Whiskered Barbet Golden-Throated Barbet Megalaima franklinii Brown Barbet Calondae Bround Fred Barbet Megalaima franklinii O.0.1 Calondae Bround Fred Barbet Megalaima franklinii O.0.1 Calondae Bround Fred Barbet Megalaima franklinii O.0.1 Brown Barbet Calorhamphus fuliginosus O.0.2 Calondae Calondae Calorhamphus fuliginosus O.0.1 Calondae Calondae Calorhamphus fuliginosus O.0.1	Red-Tailed Laughing Thrush	Garrulax milnei	0.0.1
Pekin Robin/Red Billed Leothrix Leiothrix lutea 0.0.1  Estrildidae Java Sparrow Padda oryzivora 0.0.1  Ploceidae Baya Weaver Ploceus philippinus 0.0.2  Sturmidae Common Myna Acridotheres tristis 0.0.5 Hill Myna Gracula religiosa 0.0.2 Glossy Starling Aplonis panayensis 1.0.2  Oriolidae Black-Naped Oriole Oriolus chinensis 0.0.2  Corvidae Blue Magpie Urocissa erythrorhyncha 0.0.4  Capitonidae Lineated Barbet Megalaima lineata 0.0.1 Golden-Whiskered Barbet Megalaima chrysopogon 0.0.1 Golden-Throated Barbet Megalaima franklinii 0.0.1 Brown Barbet Calorhamphus fuliginosus 0.0.1	Chestnut-Capped Laughing Thrush	Garrulax mitratus	0.0.1
Estrildidae Java Sparrow Padda oryzivora 0.0.1  Ploceidae Baya Weaver Ploceus philippinus 0.0.2  Sturmidae Common Myna Acridotheres tristis 0.0.5 Hill Myna Gracula religiosa 0.0.2 Glossy Starling Aplonis panayensis 1.0.2  Oriolidae Black-Naped Oriole Oriolus chinensis 0.0.2  Corvidae Blue Magpie Urocissa erythrorhyncha 0.0.4  Capitonidae Lineated Barbet Megalaima lineata 0.0.1 Golden-Whiskered Barbet Megalaima chrysopogon 0.0.1 Golden-Throated Barbet Megalaima franklinii 0.0.1 Brown Barbet Calorhamphus fuliginosus 0.0.1	White-Crested Laughing Thrush	Garrulax leucolophus	0.0.6
Java Sparrow         Padda oryzivora         0.0.1           Ploceidae         Baya Weaver         Ploceus philippinus         0.0.2           Sturmidae         0.0.5         0.0.5           Common Myna         Acridotheres tristis         0.0.5           Hill Myna         Gracula religiosa         0.0.2           Glossy Starling         Aplonis panayensis         1.0.2           Oriolidae         Black-Naped Oriole         Oriolus chinensis         0.0.2           Corvidae         Blue Magpie         Urocissa erythrorhyncha         0.0.4           Capitonidae         Lineated Barbet         Megalaima lineata         0.0.1           Golden-Whiskered Barbet         Megalaima chrysopogon         0.0.1           Golden-Throated Barbet         Megalaima franklinii         0.0.1           Brown Barbet         Calorhamphus fuliginosus         0.0.1	Pekin Robin/Red Billed Leothrix	Leiothrix lutea	0.0.1
Ploceidae       Baya Weaver     Ploceus philippinus     0.0.2       Sturmidae     0.0.5       Common Myna     Acridotheres tristis     0.0.5       Hill Myna     Gracula religiosa     0.0.2       Glossy Starling     Aplonis panayensis     1.0.2       Oriolidae     Black-Naped Oriole     Oriolus chinensis     0.0.2       Corvidae     Blue Magpie     Urocissa erythrorhyncha     0.0.4       Capitonidae     Lineated Barbet     Megalaima lineata     0.0.1       Golden-Whiskered Barbet     Megalaima chrysopogon     0.0.1       Golden-Throated Barbet     Megalaima franklinii     0.0.1       Brown Barbet     Calorhamphus fuliginosus     0.0.1	<u>Estrildidae</u>		
Baya Weaver         Ploceus philippinus         0.0.2           Sturmidae         0.0.5         0.0.5           Common Myna         Acridotheres tristis         0.0.5           Hill Myna         Gracula religiosa         0.0.2           Glossy Starling         Aplonis panayensis         1.0.2           Oriolidae         Black-Naped Oriole         Oriolus chinensis         0.0.2           Convidae         Blue Magpie         Urocissa erythrorhyncha         0.0.4           Capitonidae         Lineated Barbet         Megalaima lineata         0.0.1           Golden-Whiskered Barbet         Megalaima chrysopogon         0.0.1           Golden-Throated Barbet         Megalaima franklinii         0.0.1           Brown Barbet         Calorhamphus fuliginosus         0.0.1	Java Sparrow	Padda oryzivora	0.0.1
Sturmidae         Common Myna         Acridotheres tristis         0.0.5           Hill Myna         Gracula religiosa         0.0.2           Glossy Starling         Aplonis panayensis         1.0.2           Oriolidae         Black-Naped Oriole         Oriolus chinensis         0.0.2           Corvidae         Blue Magpie         Urocissa erythrorhyncha         0.0.4           Capitonidae         Lineated Barbet         Megalaima lineata         0.0.1           Golden-Whiskered Barbet         Megalaima chrysopogon         0.0.1           Golden-Throated Barbet         Megalaima franklinii         0.0.1           Brown Barbet         Calorhamphus fuliginosus         0.0.1	<u>Ploceidae</u>		
Common Myna         Acridotheres tristis         0.0.5           Hill Myna         Gracula religiosa         0.0.2           Glossy Starling         Aplonis panayensis         1.0.2           Oriolidae         Black-Naped Oriole         Oriolus chinensis         0.0.2           Corvidae         Blue Magpie         Urocissa erythrorhyncha         0.0.4           Capitonidae         Lineated Barbet         Megalaima lineata         0.0.1           Golden-Whiskered Barbet         Megalaima chrysopogon         0.0.1           Golden-Throated Barbet         Megalaima franklinii         0.0.1           Brown Barbet         Calorhamphus fuliginosus         0.0.1	Baya Weaver	Ploceus philippinus	0.0.2
Hill Myna Gracula religiosa 0.0.2 Glossy Starling Aplonis panayensis 1.0.2 Oriolidae Black-Naped Oriole Oriolus chinensis 0.0.2 Corvidae Blue Magpie Urocissa erythrorhyncha 0.0.4 Capitonidae Lineated Barbet Megalaima lineata 0.0.1 Golden-Whiskered Barbet Megalaima chrysopogon 0.0.1 Golden-Throated Barbet Megalaima franklinii 0.0.1 Brown Barbet Calorhamphus fulliginosus 0.0.1	<u>Sturmidae</u>		
Glossy Starling Aplonis panayensis 1.0.2  Oriolidae  Black-Naped Oriole Oriolus chinensis 0.0.2  Corvidae  Blue Magpie Urocissa erythrorhyncha 0.0.4  Capitonidae  Lineated Barbet Megalaima lineata 0.0.1  Golden-Whiskered Barbet Megalaima chrysopogon 0.0.1  Golden-Throated Barbet Megalaima franklinii 0.0.1  Brown Barbet Calorhamphus fulliginosus 0.0.1	Common Myna	Acridotheres tristis	0.0.5
Oriolidae Black-Naped Oriole Corvidae Blue Magpie Urocissa erythrorhyncha Capitonidae Lineated Barbet Golden-Whiskered Barbet Megalaima franklinii Brown Barbet Calorhamphus fuliginosus 0.0.1	Hill Myna	Gracula religiosa	0.0.2
Black-Naped Oriole Oriolus chinensis 0.0.2  Corvidae  Blue Magpie Urocissa erythrorhyncha 0.0.4  Capitonidae  Lineated Barbet Megalaima lineata 0.0.1  Golden-Whiskered Barbet Megalaima chrysopogon 0.0.1  Golden-Throated Barbet Megalaima franklinii 0.0.1  Brown Barbet Calorhamphus fuliginosus 0.0.1	Glossy Starling	Aplonis panayensis	1.0.2
Corvidae  Blue Magpie Urocissa erythrorhyncha 0.0.4  Capitonidae  Lineated Barbet Megalaima lineata 0.0.1  Golden-Whiskered Barbet Megalaima chrysopogon 0.0.1  Golden-Throated Barbet Megalaima franklinii 0.0.1  Brown Barbet Calorhamphus fuliginosus 0.0.1	<u>Oriolidae</u>		
Blue Magpie Urocissa erythrorhyncha 0.0.4  Capitonidae Lineated Barbet Megalaima lineata 0.0.1  Golden-Whiskered Barbet Megalaima chrysopogon 0.0.1  Golden-Throated Barbet Megalaima franklinii 0.0.1  Brown Barbet Calorhamphus fuliginosus 0.0.1	Black-Naped Oriole	Oriolus chinensis	0.0.2
Capitonidae       Lineated Barbet     Megalaima lineata     0.0.1       Golden-Whiskered Barbet     Megalaima chrysopogon     0.0.1       Golden-Throated Barbet     Megalaima franklinii     0.0.1       Brown Barbet     Calorhamphus fuliginosus     0.0.1	<u>Corvidae</u>		
Lineated Barbet Megalaima lineata 0.0.1 Golden-Whiskered Barbet Megalaima chrysopogon 0.0.1 Golden-Throated Barbet Megalaima franklinii 0.0.1 Brown Barbet Calorhamphus fuliginosus 0.0.1	Blue Magpie	Urocissa erythrorhyncha	0.0.4
Golden-Whiskered Barbet Megalaima chrysopogon 0.0.1 Golden-Throated Barbet Megalaima franklinii 0.0.1 Brown Barbet Calorhamphus fuliginosus 0.0.1	<u>Capitonidae</u>		
Golden-Throated Barbet Megalaima franklinii 0.0.1  Brown Barbet Calorhamphus fuliginosus 0.0.1	Lineated Barbet	Megalaima lineata	0.0.1
Brown Barbet Calorhamphus fuliginosus 0.0.1	Golden-Whiskered Barbet	Megalaima chrysopogon	0.0.1
	Golden-Throated Barbet	Megalaima franklinii	0.0.1
REPTILES	Brown Barbet	Calorhamphus fuliginosus	0.0.1
REPTILES			
	REPTILES		

REPTILES		
CRYPTODIRA		
<u>Chelidae</u>		
Snake Neck Turtle	Chelodina oblonga	0.1.0
Matamata	Chelus fimbriatus	0.0.2
Emydidae cryptodira		
	Batagur baska	2.0.1
Malayan Painted Terrapin	Callagur borneoensis	1.1.0
Malayan Box-Turtle	Cuora amboinensis	9.8.7
Asian Leaf Turtle	Cyclemys dentata	0.1.0
Big-Headed/Malaysian Giant Turtle	Orlitia borneensis	2.4.0
Giant Asian Pond Turtle	Heosemys grandis	7.10.8
Black Terrapin	Siebenrockiella crassicollis	0.2.2
Red-Eared Slider	Trachemys scripta elegans	6.39.0
Alligator Snapping Turtle	Macroclemys temminckii	0.0.1
Pig-nose Turtle	Carettochelys insculpta	1.1.0
<u>Testudinindae</u>		
Aldabra Tortoise	Geochelone gigantae	3.1.0
Elongated Tortoise	Indotestudo elongata	2.1.0
Asian Brown Tortoise	Manouria emys emys	1.2.0
Black Asian Giant Tortoise	Monouria emys phayrei	1.0.0
Trionychidae trionychinae		
Asiatic Softshelled Turtle	Trionyx/Amyda cartilagineus	
CROCODYLIA		
Crocodylidae crocodylinae		
Estuarine Crocodile	Crocodylus porosus	1.5.0
Siamese crocodile	Crocodylus siamensis	0.1.0
Dwarf Crocodile	Osteolaemus tetraspis	3.2.4

SAURIA		
<u>Gekkonidae</u>		
Leopard Gecko	Eublepharis macularius	0.0.
<u>Iguanidae</u>		
Green Iguana	Iguana iguana	3.0.3
<u>Varanidae</u>		
Malayan Water Monitor	Varanus salvator	1.1.
Clouded Monitor	Varanus bengalensis	0.0.
Rought-Necked Monitor		0.0.
SERPENTES		
<u>Boidae</u>		
Green Anaconda	Eunectes murinus	0.0.
Boidae erycinae		
Sand Boa	Eryx tataricus	0.0.
Boidae pythoninae		
Short Tailed/Blood Python	Python curtus	0.0.
Burmese/Rock Python	Python molurus bivittatus	1.0.
Albino Burmese Python	Python molurus bivittatus	1.0.
Reticulated Python	Python reticulatus	4.1.
<u>Xenopeltidae</u>		
Sunbeam Snake	Xenopeltis unicolor	
<u>Acrochoridae</u>		
Elephant Trunk Snake	Acrocordus javanicus	0.0.
<u>Colubridae</u>		
Oriental Whip Snake	Ahaetulla prasina	0.0.
Yellow-Ringed Cat Snake	Boiga dendrophilia	0.0.
Malayan Cave Racer		1.0.
Radiated Ratsnake	Elaphe radiata	
Red-Tailed Ratsnake	Gonyosoma oxycephalum	1.0.
Indochinese Rat Snake	Pytas korros	0.0.
Dark-headed Cat Snake	Boiga nigriceps	0.0.
Triangle keelback	Xenochrophis trianguligerus	0.0.
Orange necked keelback		0.0.
Puff - faced Water Snake	Homalopsis buccata	0.0.
Elapidae		
Monocellate Cobra	Naja kaouthia	1.3.
Central Asian/Afganistan Cobra	Naja naja oxiana	1.0.
Common Spitting Cobra	Naja sumatrana	0.0.
King Cobra	Ophiophagus hannah	1.0.
Malayan Krait	Bungarus candidus	1.0.
Viperidae crotalinae		
Malayan Pit Viper	Calloselasma rhodostoma	1.0.
Shore Pit Viper	Trimeresurus purpureomaculatus	1.2.0
Hagen's/Indonesian Pit Viper	Trimeresurus hageni	0.0.
Wagler's Pit Viper	Tropidolaemus wagleri	
White-Lipped Pit Viper	Trimeresurus albolabris	1.2.
Sumatran Pit Viper	Trimeresurus sumatranus	0.0.
Big Eyed Pit Viper	Trimeresurus macrops	0.0.



# CENSUS

# **AMPHIBIAN**

RANIDAE		
White-lipped frog	Rana raniceps	2.3.3
Poisonous Rock frog	Rana hossi	2.4.4
Green Paddy frog	Rana erythraea	2.4.12
Rough-sided frog	Rana glandulosa	
Malayan giant frog	Limnonectes malesianus	
Blyth's river frog	Limnonectes blythii	
Mahogany frog	Rana luctuosa	0.0.2
BUFONIDAE		
Brown tree toad	Pedostybes hosii	3.7.0
River toad	Bufo asper	0.1.6
Collett's tree frog	Polypedates colletti	0.0.3
Rice Paddy frog	Occidozygo lima	5.0.7
MEGOPHRYIDAE		
Asian horned frog	Megophyrys nasuta	1.1.6
Montane horned frog	Megophyrys longipes	0.1.0
RHACOPHORIDAE		
Golden tree frog	Polypedates lenconystax	3.6.0
Wallace's flying frog	Rhacophorus nigropalmatus	0.0.2
Reinwardat's flying frog	Rhacophorus reinwardti	
Harlegnin tree frog	Rhacophorus pardalis	
Flying tree frog	Rhacophorus dulitensis	0.0.4
Spotted tree frog	Nyctixalus pictus	0.0.2
MICROHYLIDAE		
Banded bull frog	Kaloula pulchra	0.0.9
LEPTODACTYLIDAE		
White's tree frog	Pelodryds caerulea	
Toad		0.0.3

# FISH

FRESHWATER FISH (NATIVE SPECIE	S)	_
<u>Acanthuroidei</u>		
Horse-faced Loach/Ikan Pasir	Acantopsis dialuzona	0.0.12
<u>Anabantidae</u>		
Climbing Perch/Puyu	Anabas testudineus	
<u>Aplocheilidae</u>		
Whitespot/Kepala Timah	Aplocheilus panchax	
<u>Bagridae</u>		
Black Lancer	Bagrichthys hyselopterus	
Marble Lancer	Bagrichthys sp.	
Comb Goby/Tilan	Ctenotrypauchen microcephalus	
Asian Redtail Catfish/Baung Kunyit	Hemibagrus nemurus	0.0.5
Red-tailed Catfish	Mystus micracanthus	0.0.3
Baung Belang	Mystus nigriceps	0.0.2
Baung Akar	Mystus planiceps	0.0.12
Striped Dwarf Catfish	Mystus vittatus	
Baung Tikus	Mystus sp.	
Baung Murai	Mystus wyckii	0.0.2
<u>Balitoridae</u>		
Hillstream Loach	Gastromyzon spp.	0.0.37
<u>Belonidae</u>		
Freshwater Garfish/Julong	Xenentodon canciloides	
<u>Belontiidae</u>		
Javan Combtail/Tebakang	Belontia hasselti	0.0.12
Bellicose Fighting Fish/Belaga	Betta bellica	0.1.0
	Betta chini	
Crescent Betta	Betta imbellis	0.3.4
Emerald-spot Fighting Fish/Sepilai Mera	h Betta livida	0.4.5
Forest Fighting Fish	Betta pugnax	0.0.5
Siamese Fighting Fish/Pelaga	Betta splendens	
Dwarf Gourami	Colisa Ialia	0.0.2
Licorice Gourami/Karim	Parosphromenus harveyi	
Chocolate Gourami/Biji Durian	Sphaerichthys osphromenoides	0.0.0

Woorlingth Gourann	
Two-Spot Gourami	
Blue Gourami	
Golden Gourami	
Croaking Gourami/Karim	
Snake skin Gourami	
<u>Channidae</u> Blackwater Snakehead	Cha
	Cha
Dwarf Snakehead/Bakap	Cha
Forest Snakehead/Bujok	
Flower Snakehead/Toman Bungah Giant Snakehead/Toman	Cha Cha
<u>Claridae</u>	
African Catfish	Cla
Forest Walking Catfish/Keli Hutan	Cla
Cobitidae	
Loach	Bot
Pakistani Loach	Bot
Orange-finned Loach	Bot
Clown Loach	Chi
Lesser Loach	Lep
Kuhli Loach	Par
Skunk Botia	Yas
<u>Cyprinidae</u>	
Bala Shark	Bal
Tinfoil Barb/Lampam Sungai	Bar
Tinfoil Barb/Lampam Sungai	Bar
Golden Barb	Bar
Dwarf Rasbora	
Plain Goldfish	Car
Cherry Barb	Cop
Siamese Algae Eater/Selimang	Cro
Red-eyed Barb/Chemperas	Сус
Koi/Japanese Carp	Сур
Flying Fox/Selimang Batang	Epa
Hampala/Sebarau	Hai
Krai Emas/Krai Kunyit	Нур
Black Shark / Jenkua	Lat
Red-finned Shark	Lat
Rohu	Lat
Lomah/Lemek	Lat
Kawan	Lat
Sultan Fish/ Jelawat	Lep
Bulat Apollo Shark	Lot Luc
Apollo Shark Ikan Daun	Ned
Silver Sharkminnow/Terbol	Ost
Ikan Rong	Ost
Tengas	Por
Jullien's Barb/Temoleh	Pro
Two spot Barb/Tebal Sisik	Pur
Tenggalan	Pur
Malayan Clown Barb/Bagoh	Pur
Melon Barb	Pur
Javanese Barb/Lampan Jawa	Pur
Six-banded Barb	Pur
T-Barb/Bagoh	Pur
Lined Barb/Striped Barb	Pur
Gold-finned Barb/Pipi Merah	Pur
Rhombo Barb	Pur
Tiger Barb/Pelampong Jaring	Pur
Greater Scissortail/Bada Seluang	Ras
Head-band Rasbora/Bada Seluang	Ras
Elegant Rasbora	Ras

hogaster leeri	0.0.41	
hogaster microlepis	0.0.18	
hogaster trichopterus	0.0.6	
chogaster trichopterus Chogaster trichopterus	0.0.9 0.0.2	
hopsis vittata	0.0.2	
hogaster pectoralis	0.0.2	
nogastor podiorans		
anna bankanensis	0.0.2	
anna gachua	0.0.1	
anna lucius	0.0.2	
anna marulioides		
anna micropeltes	0.0.6	
rias gariepinus	0.0.3	
rias teijsmanni		
ia hymenophysa	0.0.3	
ia lohachata	0.0.2	
ia modesta	0.0.10	
romobotia macracanthus	0.0.37	
idocephalus thermalis	0.0.4	
ngio kuhlii	0.0.28	
suhikotakia morleti	0.0.84	
antiocheilus melanopterus	0.0.20	
bonymus schwanenfeldii	0.0.20	
bonymus sp.	0.0.11	
bus sachsi	0.0.12	
raras maculatus	0.0.30	
rassius sp.	0.0.5	
poeta titteya	0.0.3	
ssocheilus siamensis	0.0.31	
clocheilichthys apogon	0.0.8	
orinus carpio	0.0.34	
alzeorhynchos kalopterus	0.0.30	
mpala macrolepidota	0.0.12	
osibarbus pierrei	0.0.28	
eo chrysophekadion	0.0.39	
neo erythrurus	0.0.22	
neo rohita	0.0.3	
niobarbus ocellatus	0.0.9	
niobarbus sp.	0.0.12	
otobarbus hoevenii		
ocheilus bo	0.0.1	
ocheilus sp.	0.0.1	
iosoma sp. olissochilus soroides	0.0.15 0.0.13	
	0.0.13	
eochilus hasselti eochilus microcephalus	0.0.35	
opuntius dearatus	0.0.48	
barbus jullieni	0.0.17	
ntius binotatus	0.0.8	
ntius bulu	0.0.7	
ntius dunckeri	0.0.57	
ntius fasciata		
ntius gonionotus	0.0.5	
ntius hexazona	0.0.8	
ntius lateristriga	0.0.17	
ntius lineatus	0.0.82	
ntius rhomboocellatus	0.0.24	
ntius tetrazona	0.0.35	
sbora caudimaculata	0.0.35	

Einthoven's/Blue Line Rasbora	Rasbora einthovenii	0.0.51
Black Stripe Rasbora	Rasbora gracilis	0.0.3
Harlequin Rasbora	Rasbora hengeli	0.0.21
Harlequin Rasbora	Rasbora heteromorpha	0.0.21
	Rasbora jayarami	0.0.19
Redstripe Rasbora	Rasbora pauciperforata	0.0.118
Two-spot Rasbora	Rasbora sumatrana	0.0.27
Scissortail Rasbora	Rasbora trilineata	0.0.31
Green-eye Rasbora	Rasbora sp.	0.0.48
White Cloud Minnow	Tanichthys albonubes	0.0.7
Glowlight Rasbora	Trigonostigma hengeli	0.0.18
Blue-fin Kelah/Kelah	Tor duoronensis	0.0.3
Malaysian Mahseer/Kelah	Tor tambroides	0.0.20
<u>Dasyatidae</u>		
Freshwater Stingray	Himantura sp.	0.0.5
<u>Datnioididae</u>		
Finescale Tigerfish	Datnioides microlepis	0.0.3
<u>Gobidae</u>		
Bumblebee Goby	Brachygobius sp.	0.0.24
<u>Helostomatidae</u>		
Kissing Gourami	Helostoma temmincki	0.0.1
<u>Hemiramphidae</u>		
Forest Halfbeak/Julong	Dermogenys pusilla	0.0.43
<u>Luciocephalidae</u>		
Pikehead/Tembok Tebing	Luciocephalus pulcher	0.0.2
<u>Mastacembelidae</u>		
Fire Eel/Tilan	Mastacembelus erythrotaenia	0.0.4
Zig zag Eel/Tilan	Mastacembelus armatus	0.0.4
Freshwater Eel/Belut	Monopterus albus	0.0.5
<u>Nandidae</u>		
Bornean Leaf Fish/Patung	Nandus nebulosus	0.0.6
Banded Leaf Fish/Patung	Pristolepis fasciata	0.0.2
<u>Notopteridae</u>		
Clown Featherback/Belida	Chitala sp.	0.0.1
Spotted Knife Fish/Belida	Chitala sp.	0.0.6
Common Knifefish/Potak/Belida		0.0.1
Royale Feather Back	Chitala blanci	0.0.5
<u>Osphronemidae</u>		
Giant Gourami	Osphronemus goramy	0.0.3
Golden Giant Gourami	Osphronemus goramy	0.0.4
Sabah Giant Gourami	Osphronemus goramy	0.0.5
<u>Osteoglossidae</u>		
	Scleropages sp.	0.0.7
<u>Pangasiidae</u>		
Shortbarbel Pangasius/Patin	Pangasius micronemus	0.0.5
Patin Buah	Pangasius nasutus	0.0.12
Yellowtail Catfish/Patin	Pangasius pangasius	0.0.3
<u>Siluridae</u>		
Glass Catfish	Kryptopterus bicirrhis	0.0.17
Lais	Kryptopterus cryptopterus	0.0.1
Tapah	Wallago leerii	0.0.6
<u>Sisoridae</u>		
Dwarf Goonch/Kenarak	Bagarius yarrelli	0.0.2
Wrinkled Bellied Cat Fish/ Depu	Glyptothorax major	0.0.1
<u>Tetraodontidae</u>		
Brown Puffer	Tetraodon palembangensis	0.0.2
Green Puffer	Tetraodon nigroviridis	0.0.4
Micro Puffer	Tetraodon sp.	0.0.7

Callichthyidae		
Leopard Cory	Corydoras trilineatus	0.0.8
Characidae		
Pacu	Colossoma macropomum	0.0.16
Silver Dollar	Metynnis schreitmuelleri	0.0.18
Cichlidae		
Midas Cichlid	Amphilophus citrinellus	0.0.143
Tilapia	Oreochromis mossambicus	0.0.323
Manguenese	Parachromis manguenese	0.0.2
<u>Cobitidae</u>		
Burmese Loach	Lepidocephalichthys berdmore.	i 0.0.20
<u>Cyprinidae</u>		
Pearl Danio	Danio albolineatus	0.0.24
<u>Lepisosteidae</u>		
Alligator Gar	Atractosteus spatula	0.0.5
<u>Loricariidae</u>		
Suckermouth Catfish	Hypostomus plecostomus	0.0.28
Golden Otocinclus	Otocinclus affinis	0.0.9
<u>Melanotaeniidae</u>		
Boesman's Rainbowfish	Melanotaenia boesmani	0.0.10
Blue Rainbowfish	Melanotaenia caerulea	0.0.5
MacCulloch's Rainbow Fish	Melanotaenia maccullochi	0.0.15
Dwarf Rainbowfish	Melanotaenia praecox	0.0.10
<u>Osteoglossidae</u>		
Arapaima/Pirarucu	Arapaima gigas	0.0.4
Silver Arowana	Osteoglossum bicirrhosum	0.0.3
<u>Pimelodidae</u>		
Red-tailed Catfish	Phractocephalus hemeliopterus	0.0.3
SALTWATER FISH		
<u>Cyprinidae</u>		
Indo-Pacific Tarpon/Bulan	Megalops cyprinoides	0.0.11
INVERTEBRATES		
CRUSTACEANS		
Giant River Prawn	Macrobrachium rosenbergii	0.0.22

# **APPRECIATION**

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Y.B. Minister of Agriculture and Officers of his Ministry

Y.B. Minister of Tourism and Officers of her Ministry

Y.A.B. Menteri Besar Selangor Darul Ehsan and Officers of State Government

Y. Bhg. Datuk Bandar and Officers of Dewan Bandaraya Kuala Lumpur

**Donors and Sponsors** 

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Department of Fisheries Malaysia (DOFM)

**Department of Veterinary Services (DVS)** 

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**All Zoo Committee Members** 

**Zoo Volunteers** 

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