



By Courtesy of K. W. Green, A.R.P.S.

Chester Zoo News

AND GUIDE

THE NORTH OF ENGLAND ZOOLOGICAL SOCIETY
ZOOLOGICAL GARDENS, UPTON - BY - CHESTER

January 1970

Price 1/-



The North of England Zoological Society

ZOOLOGICAL GARDENS, UPTON-BY-CHESTER

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COVER: Ankole Cattle.

ANNUAL SUBSCRIPTION SEVENTEEN SHILLINGS POSTAGE PAID

TELEPHONE :: CHESTER 20106/7/8

ARRIVALS AND GENERAL NEWS

Recent arrivals at the Zoo were a pair of Fischer's Lovebirds (*Agapornis fischeri*) which were presented to the Society and two female Rhinoceros Iguanas (*Metopoceros cornutus*) which were acquired for the lone male in the collection. The Iguanas have mated already and we are optimistic that they will breed.

At the time of writing the African Python (*Python sebae*) has been coiled around her eggs for four weeks. Incubation usually lasts for fourteen weeks and to increase the chances of success three eggs have been removed and are being incubated separately. The necessary heat to incubate the eggs is maintained by the snake herself and each morning she is given a fine water spray to simulate the presence of dew. Periodically one can detect a hissing sound as she releases her coils slightly to allow air to circulate to the eggs and thus regulate the temperature. It is not possible to see how many eggs she has laid, but last year the number was approximately sixty.

The seventeen young Rainbow Boas (*Epicrates cenchris*) are growing rapidly and have sloughed their skins twice. At birth they were about 12 inches long and fully nourished from eating the egg sacs. They have been fed on newly-born rats for the past two weeks and will probably be exchanged for other species when a little older.

REPORT FOR 1969

Following the recent stocktaking, we thought readers would be interested to have a general report on the year.

At 31st December, 1969, the numbers of specimens (excluding Fish) in the collection were:

Mammals	...	...	...	...	657
Birds	...	...	...	...	1,051
Reptiles and Amphibians	...	...	...	...	217

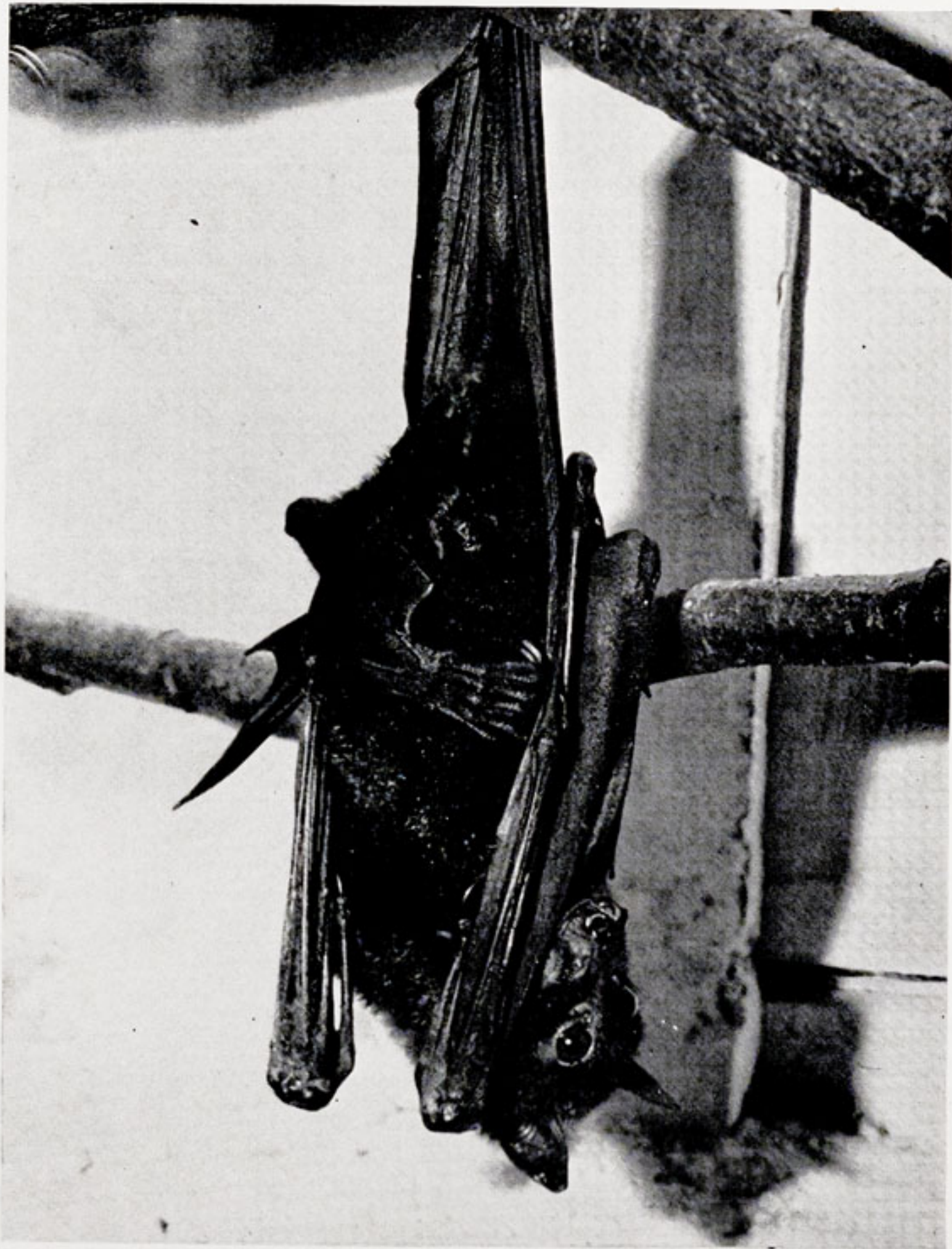


BENNETT'S WALLABY AND YOUNG

K. W. Green, A.R.P.S.

The following specimens were bred at the Zoo during the year:

MAMMALS				No.	No.
Species	Latin Name			Born	Reared
Agouti	<i>Dasyprocta aguti</i> ...			2	1
Baboon, Yellow ...	<i>Papio cynocephalus</i> ...			1	—
Barbary Ape	<i>Macaca sylvana</i> ...			1	—
Blesbok	<i>Damaliscus dorcas</i> ...			1	1
Cattle, Ankole ...	<i>Bos taurus</i>			2	—
„ Highland ...	<i>Bos taurus</i>			3	3
Chimpanzee	<i>Pan troglodytes</i> ...			1	1
Coati	<i>Nasua nasua</i>			3	3
Deer, Fallow	<i>Dama dama</i>			3	2
„ Père David's ...	<i>Elaphurus davidianus</i>			4	4
Dog, Raccoon	<i>Nyctereutes</i> <i>procyonoides</i> ...			1	—
Dormouse, Edible ...	<i>Glis glis</i>			2	1
Gazelle, Arabian ...	<i>Gazella arabica</i> ...			4	3
Giraffe	<i>Giraffa camelopardalis</i>			1	1
Goat, Bagot	<i>Capra hircus</i>			1	1
Hippopotamus, Common	<i>Hippopotamus</i> <i>amphibius</i> ...			1	1
Jackal, Black-backed	<i>Canis mesomelas</i> ...			3	3
Jaguar	<i>Panthera onca</i>			3	3
Lechwe, Red	<i>Kobus leche</i>			8	3
Leopard, Amur	<i>Panthera pardus</i> <i>orientalis</i>			1	1
„ Black	<i>Panthera pardus</i> ...			2	1
„ Common	<i>Panthera pardus</i> ...			3	1
Llama	<i>Lama glama</i>			1	1
Mangabey, Sooty ...	<i>Cercocebus torquatus</i>			3	—
Marmot, Prairie ...	<i>Cynomys ludovicianus</i>			10	10
Marten, American ...	<i>Martes americana</i> ...			1	1
Mongoose, Indian ...	<i>Herpestes edwardsi</i> ...			1	—
Monkey, De Brazza ...	<i>Cercopithecus neglectus</i>			1	—
„ Mona	<i>Cercopithecus mona</i> ...			1	1
„ Talapoin	<i>Cercopithecus talapoin</i>			2	1
„ Vervet	<i>Cercopithecus</i> <i>pygerythrus</i> ...			1	—
Onager	<i>Equus hemionus onager</i>			1	—
Otter	<i>Aonyx cinerea</i>			1	1
Panda, Lesser	<i>Ailurus fulgens</i>			1	—
Puma	<i>Felis concolor</i>			3	2



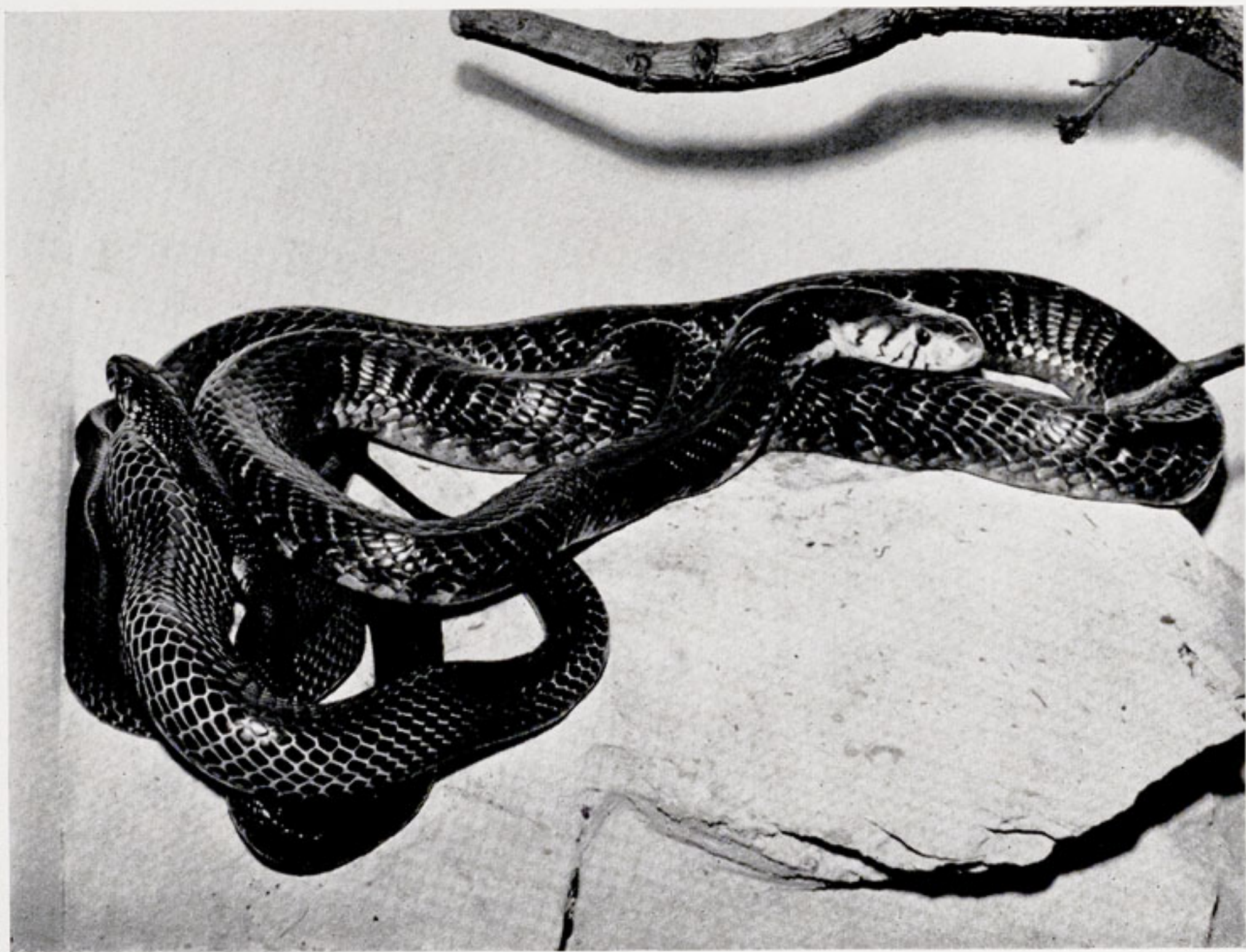
FRUIT BAT

E. Kirkland, F.R.P.S.

Species	Latin Name	No. Born	No. Reared
Sheep, Soay	<i>Ovis aries</i>	5	5
Wallaby, Bennett's	<i>Protemnodon rufogrisea</i>	11	11
" Rufous-bellied	<i>Thylogale billardierii</i>	1	1
Wapiti	<i>Cervus canadensis</i>	4	3
Zebra, Common	<i>Equus burchelli granti</i>	4	2
" Grevy's	<i>Equus grevyi</i>	1	1

BIRDS

Species	Latin Name	No. Hatched	No. Reared
Budgerigar	<i>Melopsittacus undulatus</i>	22	22
Cockatiel	<i>Nymphicus hollandicus</i>	6	6
Conure, Red-masked	<i>Aratinga rubrolarvata</i>	2	2
Curassow, Sclater's	<i>Crax fasciolata sclateri</i>	2	1
Doves	<i>Streptopelia various</i>	8	8
Duck, Mallard	<i>Anas platyrhynchos</i>	50	50
" Muscovy	<i>Cairina moschata</i>	3	3
Finch, Green	<i>Chloris Chloris</i>	2	2
" Zebra	<i>Taeniopygia castanotis</i>	4	4
Goose, Canada	<i>Branta canadensis</i>	1	1
" Domestic	<i>Anser</i>	1	1
" Emperor	<i>Anser canagicus</i>	3	3
" Lesser Snow	<i>Anser coerulescens</i>	5	2
Java Sparrow	<i>Padda oryzivora</i>	1	1
Kookaburra	<i>Dacelo gigas</i>	2	—
Lorrikeet, Louisiade	<i>Trichoglossus haematod</i> <i>aberrans</i>	1	1
Lovebird, Fischer's	<i>Agapornis fischeri</i>	2	2
Owl, Great Eagle	<i>Bubo bubo</i>	3	3
Parrakeet, (Barnard x Pennant) x Port Lincoln	(<i>Barnardius barnardi</i> x <i>Platycercus elegans</i>) x <i>Barnardius zonarius</i>	3	3
Parrakeet, Crimson- wings	<i>Aprosmictus</i> <i>erythropterus</i>	3	3
" Derbian	<i>Psittacula derbyana</i>	3	3
" Ring-necked	<i>Psittacula krameri</i>	2	2
Starling, Glossy	<i>Lamprocolius nitens</i>	1	1
Swan, Mute	<i>Cygnus olor</i>	2	2



J. Whitworth

BLACK AND WHITE COBRAS

GUIDE TO ZOOLOGICAL GARDENS

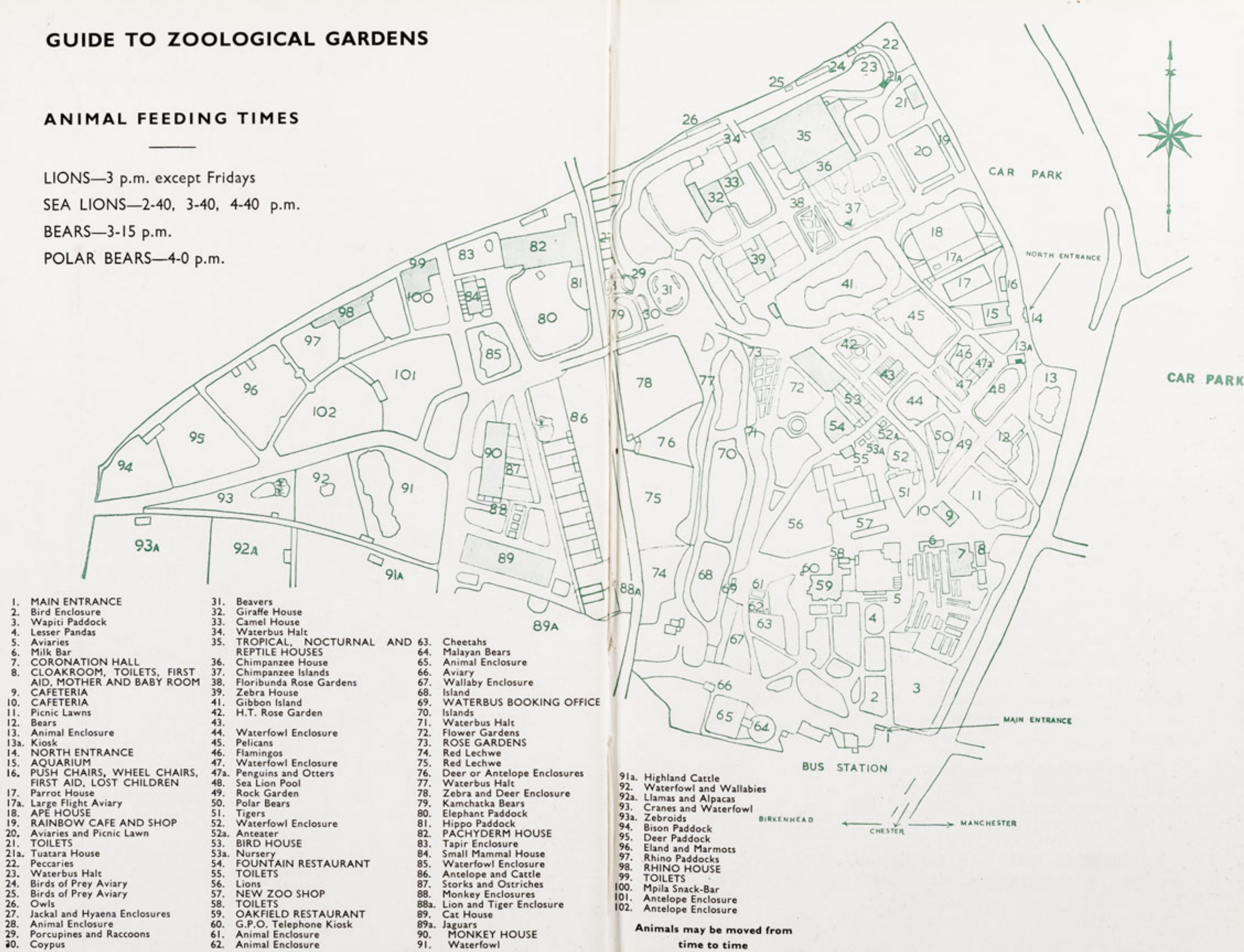
ANIMAL FEEDING TIMES

LIONS—3 p.m. except Fridays

SEA LIONS—2-40, 3-40, 4-40 p.m.

BEARS—3-15 p.m.

POLAR BEARS—4-0 p.m.



- | | | |
|---|--|---------------------------------|
| 1. MAIN ENTRANCE | 31. Beavers | 63. Cheetahs |
| 2. Bird Enclosure | 32. Giraffe House | 64. Malayan Bears |
| 3. Wapiti Paddock | 33. Camel House | 65. Animal Enclosure |
| 4. Lesser Pandas | 34. Waterbus Halt | 66. Aviary |
| 5. Aviaries | 35. TROPICAL, NOCTURNAL AND REPTILE HOUSES | 67. Wallaby Enclosure |
| 6. Milk Bar | 36. Chimpanzee House | 68. Island |
| 7. CORONATION HALL | 37. Chimpanzee Islands | 69. WATERBUS BOOKING OFFICE |
| 8. CLOAKROOM, TOILETS, FIRST AID, MOTHER AND BABY ROOM | 38. Floribunda Rose Gardens | 70. Islands |
| 9. CAFETERIA | 39. Zebra House | 71. Waterbus Halt |
| 10. CAFETERIA | 41. Gibbon Island | 72. Flower Gardens |
| 11. Picnic Lawns | 42. H.T. Rose Garden | 73. ROSE GARDENS |
| 12. Bears | 43. Waterfowl Enclosure | 74. Red Lechwe |
| 13. Animal Enclosure | 44. Pelicans | 75. Red Lechwe |
| 13a. Kiosk | 45. Flamingos | 76. Deer or Antelope Enclosures |
| 14. NORTH ENTRANCE | 46. Waterfowl Enclosure | 77. Waterbus Halt |
| 15. AQUARIUM | 47a. Penguins and Otters | 78. Zebra and Deer Enclosure |
| 16. PUSH CHAIRS, WHEEL CHAIRS, FIRST AID, LOST CHILDREN | 48. Sea Lion Pool | 79. Kamchatka Bears |
| 17. Parrot House | 49. Rock Garden | 80. Elephant Paddock |
| 17a. Large Flight Aviary | 50. Polar Bears | 81. Hippo Paddock |
| 18. APE HOUSE | 51. Tigers | 82. PACHYDERM HOUSE |
| 19. RAINBOW CAFE AND SHOP | 52. Waterfowl Enclosure | 83. Tapir Enclosure |
| 20. Aviaries and Picnic Lawn | 52a. Anteater | 84. Small Mammal House |
| 21. TOILETS | 53. BIRD HOUSE | 85. Waterfowl Enclosure |
| 21a. Tuatara House | 53a. Nursery | 86. Antelope and Cattle |
| 22. Peccaries | 54. FOUNTAIN RESTAURANT | 87. Storks and Ostriches |
| 23. Waterbus Halt | 55. TOILETS | 88. Monkey Enclosures |
| 24. Birds of Prey Aviary | 56. Lions | 88a. Lion and Tiger Enclosure |
| 25. Birds of Prey Aviary | 57. NEW ZOO SHOP | 89. Cat House |
| 26. Owls | 58. TOILETS | 89a. Jaguars |
| 27. Jackal and Hyaena Enclosures | 59. OAKFIELD RESTAURANT | 90. MONKEY HOUSE |
| 28. Animal Enclosure | 60. G.P.O. Telephone Kiosk | 91. Waterfowl |
| 29. Porcupines and Raccoons | 61. Animal Enclosure | |
| 30. Coypus | 62. Animal Enclosure | |

- | | |
|-----------------------------|--|
| 91a. Highland Cattle | |
| 92. Waterfowl and Wallabies | |
| 92a. Llamas and Alpacas | |
| 93. Cranes and Waterfowl | |
| 93a. Zebroids | |
| 94. Bison Paddock | |
| 95. Deer Paddock | |
| 96. Eland and Marmots | |
| 97. Rhino Paddocks | |
| 98. RHINO HOUSE | |
| 99. TOILETS | |
| 100. Mpila Snack-Bar | |
| 101. Antelope Enclosure | |
| 102. Antelope Enclosure | |
- Animals may be moved from time to time**

REPTILES

<i>Species</i>	<i>Latin Name</i>	<i>No. Born</i>	<i>No. Reared</i>
Boas, Rainbow ...	<i>Epicrates cenchris</i> ...	12	9
Rattlesnake, Western Diamond-Backed ...	<i>Crotalus atrox</i> ...	4	4

The figures shown for the number of Birds bred do not include eggs which were laid but not hatched and where they refer to Birds at liberty in the Tropical House they are only estimates.

We believe we can claim to be the first Zoo in the world to breed Louisiade Lorrikeets and are certainly the first in the British Isles. If another Zoo holds this record it would be interesting to hear from them.

Notable among our successes was the breeding of an Amur Leopard, a sub-species of Leopard listed in the I.U.C.N. Red Data Book as one in serious danger of extinction. There are only about twenty Amur Leopards in captivity and the future survival of the race may well depend upon their ability to breed in Zoos. Our Leopards first bred in 1968 when a single female cub was produced and as fortunately the second cub is male we probably have another breeding pair.

The death of the Lesser Panda cub was the result of the mother being disturbed by a group of children who climbed into the enclosure. Up to that time the cub had progressed well but distressed by the intrusion, the mother began to carry it about continually. When it was obvious that it could not survive if left in her care an attempt was made to hand rear the cub but this too was unsuccessful. It was a sad loss and we hope that should visitors witness a similar incident they will tactfully point out to the children the less obvious consequences of disturbing the animals.

Probably the best-known "conserved" species from the public's point of view is the Père David's Deer. The herd at Chester is thriving and the four fawns born during 1969 bring the total number bred since the arrival of the original stock to fourteen.

Although the Black-backed Jackals have bred several times in previous years, last year's litter was the first to be reared successfully by the mother.

The Chimpanzee named Nicky was hand reared by the Curator's wife for several months and can now be seen in the Nursery near to the Anteater enclosure, which he shares with another Chimp, Wilson, who is two years old. If visitors are in any doubt as to which is Nicky and which Wilson it will suffice to say that Wilson is the noisier of the two!

The Onager was already pregnant when she arrived at Chester, but the foal was not strong and did not live long. However, this Asiatic Wild Ass has a good breeding record in captivity and we are optimistic that she and the male already at the Zoo will breed in the not-too-distant future. Both the Onager and the Arabian Gazelle, of which three were reared, are species in some danger in the wild.

We had some misfortunes in the rearing of the Red Lechwe, reflected in the rather disappointing figures.

The following specimens were acquired either by purchase, presentation or exchange during 1969:

MAMMALS

<i>Species</i>	<i>Latin Name</i>	<i>No.</i>
Anteater, Giant ...	<i>Myrmecophaga tridactyla</i> ...	1
Baboon, Hamadryas ...	<i>Papio hamadryas</i> ...	4
Bison, American ...	<i>Bos bison</i> ...	1
Bushbaby, Coastal	<i>Galago crassicaudatus</i> ...	1
Chimpanzee ...	<i>Pan troglodytes</i> ...	4
Chipmunk ...	<i>Eutamias sp.</i> ...	1
Dormouse, Edible ...	<i>Glis glis</i> ...	4
Eland ...	<i>Taurotragus oryx</i> ...	1
Fruit Bat ...	<i>Pteropus sp.</i> ...	2
Gerbil, Asiatic and Jird	<i>Tatera indica</i> and <i>Meriones sp.</i> ...	24
Grison ...	<i>Galictis vittata</i> ...	1
Jaguar ...	<i>Panthera onca</i> ...	1
Kinkajou ...	<i>Potos flavus</i> ...	1
Kudu, Greater ...	<i>Tragelaphus strepsiceros</i> ...	3
Lion ...	<i>Panthera leo</i> ...	3
Margay Cat ...	<i>Felis wiedi</i> ...	1
Marmoset, Common ...	<i>Callithrix jacchus</i> ...	3
Mongoose, African		
Pygmy ...	<i>Helogale sp.</i> ...	1
Monkey, Crab-eating ...	<i>Macaca irus</i> ...	1
,, White-nosed	<i>Cercopithecus nictitans</i> <i>martini</i> ...	1

Species	Latin Name	No.
Nilgai	<i>Boselaphus tragocamelus</i> ...	1
Siamang	<i>Hylobates syndactylus</i> ...	1
Squirrel, Grey	<i>Sciurus carolinensis</i>	1
" Japanese Ground	<i>Eutamias sibiricus</i>	1
Tiger	<i>Panthera tigris</i>	2
Wildebeeste or Brindled Gnu	<i>Connochaetes taurinus</i> ...	1

BIRDS

Species	Latin Name	No.
Avadavat, Red	<i>Amandava amandava</i>	12
Sun-bittern	<i>Eurypyga helias</i>	2
Canary	<i>Serinus c. canarius</i>	2
Cardinal, Pope	<i>Paroaria dominicana</i>	1
" Red-crested	<i>Paroaria cucullata</i>	3
" Virginian	<i>Richmondia cardinalis</i>	1
Cockatiel	<i>Nymphicus hollandicus</i>	2
Cockatoo, Lesser Sulphur-crested	<i>Kakatoe sulphurea</i>	2
Cordon Bleu	<i>Uraeginthus b. bengalus</i>	6
Dove, Tambourine	<i>Tympanistria t. fraseri</i>	2
Egret, Cattle	<i>Ardeola ibis</i>	8
Falconet, Red-thighed	<i>Microhierax caerulescens</i>	2
Finch, Cut-throat	<i>Amadina fasciata</i>	10
" Fire	<i>Lagonosticta senegala</i>	3
" Green	<i>Chloris chloris</i>	2
" Green Singing	<i>Serinus mozambicus</i>	6
" Lavender	<i>Lagonosticta caerulescens</i>	2
" Peter's Twin-spot	<i>Hypargos niveoguttatus</i>	2
" Zebra	<i>Taeniopygia castanotis</i>	28
Flamingo, Chilean	<i>Phoenicopterus chilensis</i>	15
" Rosy	<i>Phoenicopterus ruber</i>	6
Goose, White fronted	<i>Anser albifrons</i>	1
Hornbill, Wreathed	<i>Rhyticeros dampieri</i>	1
Jay, Blue-headed	<i>Cyanocorax affinis</i>	2
" Mexican Green	<i>Xanthoura yncas</i>	2
Java Sparrow	<i>Padda oryzivora</i>	4
Kestrel	<i>Falco t. tinnunculus</i>	2
Lory, Jobi Black-capped	<i>Domicella lory jobiensis</i>	2
Lorikeet, Ornate	<i>Trichoglossus ornatus</i>	2
Lovebird, Abyssinian	<i>Agapornis taranta</i>	2
" Masked	<i>Agapornis personata</i>	1
Mynah, Hill	<i>Gracula religiosa</i>	4



GIANT ANTEATERS

J. Whitworth

Species	Latin Name	No.
Nun, Tri-colour ...	<i>Munia malacca</i> ...	2
Ostrich ...	<i>Struthio camelus</i> ...	6
Owl, Vermiculated		
Fishing ...	<i>Scotopelia bouvieri</i> ...	1
" Tawny ...	<i>Strix aluco</i> ...	1
Parrakeet, Alexandrine	<i>Psittacula eupatria</i> ...	1
" Ring-necked	<i>Psittacula krameri</i> ...	3
Parrot, African Grey ...	<i>Psittacus erithacus</i> ...	1
" Amazon ...	<i>Amazona sp.</i> ...	2
Peacock, Common ...	<i>Pavo cristatus</i> ...	4
Pelican, Rosy ...	<i>Pelicanus onocrotalus roseus</i>	2
Penguin, Humboldt's ...	<i>Spheniscus humboldtii</i> ...	1
Pigeon, Bartlett's		
Bleeding Heart ...	<i>Gallicolumba cringer</i> ...	2
Quail, Chinese-painted	<i>Excalfactoria chinensis</i> ...	2
Roller, Indian ...	<i>Coracias benghalensis</i> ...	2
Sparrow, Golden ...	<i>Passer luteus</i> ...	1
Spice Bird ...	<i>Munia punctulata</i> ...	2
Starling, Glossy ...	<i>Lamprocolius nitens</i> ...	1
Tanager, Silver Blue	<i>Thraupis virens</i> ...	2
Toucan, Sulphur-breasted ...	<i>Rhamphastos sulphuratus</i> ...	1
" Toco ...	<i>Rhamphastos toco</i> ...	3
Waterhen, White-breasted ...	<i>Amaurornis phoenicurus</i> ...	2
Waxbill, Golden-breasted ...	<i>Estrilda subflava</i> ...	5
" Red-eared ...	<i>Estrilda troglodytes</i> ...	2
" Sundervalls ...	<i>Estrilda rhodopyga</i> ...	1
Weaver, Various		39
Whydah, Yellow-shouldered ...	<i>Coliuspasser macrocerus</i> ...	1
Woodpecker, Great		
Black	<i>Dryocopus martius</i> ...	1
" Yellow-naped	<i>Picus flavinucha</i> ...	1

REPTILES

Species	Latin Name	No.
Adder, Night ...	<i>Causus rhombeatus</i> ...	1
Boa Constrictor ...	<i>Constrictor constrictor</i> ...	2
Boa, Garden Tree ...	<i>Corella hortulana</i> ...	3
Chameleon, Flap-necked ...	<i>Chameleon dilepsis</i> ...	1
Cobra, Black and White	<i>Naja melanolenca</i> ...	1
" Egyptian ...	<i>Naja h. haje</i> ...	1



COMMON IGUANAS

Mr. & Mrs. E. Sorby

Species	Latin Name	No.
Emerald Snake ...	<i>Gastropyxis smaragdina</i> ...	1
Gecko, Tocko ...	<i>Gekko gekko</i> ...	1
Iguana, Common ...	<i>Iguana iguana</i> ...	2
King Snake, Californian ...	<i>Lampropeltis californiae</i> ...	2
Monitor, Bosc's ...	<i>Varanus e. exanthematicus</i> ...	3
" Nile ...	<i>Varanus niloticus</i> ...	1
Plated Lizard ...	<i>Gerrhosaurus major</i> ...	1
Python, Blood ...	<i>Python curtus</i> ...	2
Ratsnake, Indian ...	<i>Ptyas mucosus</i> ...	2
Skink, Algerian ...	<i>Eumeces algeriensis</i> ...	1
Terrapin, European Pond ...	<i>Emys orbicularis</i> ...	1
" Flat-headed ...	<i>Platemys platycephala</i> ...	2
" Map ...	<i>Graptemys sp.</i> ...	1
" Red-eared ...	<i>Pseudemys scripta</i> ...	6
" Spanish ...	<i>Clemmys leprosa</i> ...	2
" Unspecified ...		2
Tortoise, Brazilian ...	<i>Testudo denticulata</i> ...	3
" Grecian ...	<i>Testudo graeca</i> ...	4
" Pancake ...	<i>Malacochersus tornieri</i> ...	1
Turtle, Box ...	<i>Terrapene c. carolina</i> ...	3
" Eastern Mud ...	<i>Kinosternon subrubrum</i> ...	2
" Pelomedusa ...	<i>Pelomedusa subrufa</i> ...	1
" Snapping ...	<i>Chelydra serpentina</i> ...	2
" Soft-shelled ...	<i>Trionyx stinifer</i> ...	1
Viper, Gaboon ...	<i>Bitis gabonica rhinoceros</i> ...	3
" Daudin's ...	<i>Vipera lebetina</i> ...	2
Zonure ...	<i>Cordylas giganteus</i> ...	1

Nearly 1,100,000 visitors passed through the turnstiles during the year; of these 220,000 visited the Aquarium and 162,000 the Tropical House. Water Buses gave rides to over 48,000 adults and 74,000 children.

The bill for animal food was almost £42,000, which included over 26,000 lbs. of meat, and the various departments in the Zoo used some 16,000 gallons of milk and 4,500 dozen eggs.

All profits of course are ploughed back into the development of the Zoo.

The Zoo Ties are now to hand and cost 30s. each plus 6d. postage. Anyone wishing to purchase one should contact the Director-Secretary.

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Chester
