

# REPORT

OF THE

COUNCIL AND AUDITORS

OF THE

# ZOOLOGICAL SOCIETY

OF LONDON,

FOR THE YEAR 1904.

READ AT THE ANNUAL GENERAL MEETING,

APRIL 28TH, 1905.

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## REPORT OF THE COUNCIL

*for the year 1904.*

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### ANNUAL GENERAL MEETING.

THE Seventy-sixth Annual General Meeting of the Society will be held on Friday, April 28th, 1905. The Chair will be taken at 4 p.m. at the Rooms of the Society, 3, Hanover Square, but arrangements will be made for an immediate adjournment to a Hall in the vicinity in the event of the attendance of Fellows proving too large for the accommodation. Since the first General Meeting of the Society, held on April 28th, 1826, it has been the custom, confirmed by the By-Laws in 1829, for the Council to present their Report at the Annual General Meeting, and for this Report to be printed and distributed to Fellows thereafter. At the Annual General Meeting, held on April 29th, 1904, it was suggested that the Report should be printed and issued to Fellows some time before the Annual Meeting. The Council adopted the suggestion, and at the Monthly General Meeting, held on May 19th, 1904, gave notice of the necessary alterations in the By-Laws. These alterations were balloted for and adopted at the Monthly General Meeting, held on August 18th, 1904.

#### PROCEDURE AT THE ANNUAL GENERAL MEETING.

*(By-Laws, Chapter VII., Sections 1, 2, as amended  
August 18th, 1904.)*

SECT. I. Notice of the time and place of the Annual General Meeting shall be advertised by the Council in



four or more of the public Newspapers, at least fourteen days before the same shall take place.

SECT. II. The course of proceeding at the Annual General Meeting, after the Chair has been taken, shall be as follows :—

1. The reading of the Minutes of the previous Annual Meeting.
2. The Appointment of Scrutineers and opening of the Ballot.
3. Presentation of the Auditors' Report, previously issued to Fellows.
4. Discussion of the Auditors' Report.
5. Presentation of the Council's Annual Report, previously issued to Fellows.
6. Discussion of the Council's Annual Report.
7. To receive the report of the Scrutineers on the result of the Ballot.

No other business shall be transacted at such Meeting.

This Report, and the Auditors' Report, accordingly are issued to Fellows before the Annual General Meeting.

#### STATE OF THE ROLL OF MEMBERS.

##### *Fellows.*

The number of Fellows and Fellows Elect on the 1st of January, 1905, was 3,557, classified as follows :—

Compounders	...	...	... at £20	2
”	...	...	... „ £30	1,015
Compositions remitted	...	...	...	40
Paying annual subscriptions	...	...	...	2,315
Dormant	...	...	...	146
Admission-fees unpaid	...	...	...	39
				<hr/>
			Total	3,557
				<hr/>

This is the largest number of Fellows in the history of the Society.



The corresponding number of Fellows on the 1st of January, 1904, was 3,481; thus there is shewn a net increase of 76 Fellows during the year.

*Comparative Statement of Elections, Deaths, Resignations, and Removals during the past Ten Years, with the number of Fellows at the end of each Year.*

Years.	Elected or Re-admitted.	Died.					Resigned.		Removed.			Ceased to be Fellows.	Number of Fellows, December 31.
		Compounders.			Subscribers.		Subscribers.		Subscribers	Dormant.	Admission Fees Unpaid.		
		£20.	£30.	Fee re-mitted.	£2.	£3.	£2.	£3.					
1895	197	1	26	1	2	61	...	33	11	...	7	142	3,027
1896	207	...	24	2	...	62	...	40	5	...	3	136	3,098
1897	179	...	26	...	...	66	...	20	4	...	3	119	3,158
1898	184	1	28	1	...	79	...	35	6	...	7	157	3,185
1899	209	2	27	1	2	64	...	38	8	...	6	148	3,246
1900	174	...	41	1	...	75	...	44	5	...	4	170	3,250
1901	219	...	24	...	...	63	...	34	5	...	5	131	3,338
1902	227	...	16	...	...	65	...	32	36	...	3	152	3,413
1903	218	...	22	1	...	65	...	45	9	4	4	150	3,481
1904	249	...	33	1	...	64	...	49	7	11	8	173	3,557

*Foreign and Corresponding Members.*

The following three Foreign Members were elected in 1904 to fill vacancies:—

Dr. Fritz Sarasin, Ph.D., Natural History Museum, Basle.

Dr. Paul B. Sarasin, Ph.D., Spitalstrasse 22, Basle.

Prof. Lorenzo Camerano, Director of the Royal Zoological Museum, Turin, Italy.

The following 13 gentlemen were elected Corresponding Members of the Society during the past year:—

Lt.-Col. David Bruce, M.B., F.R.S. (Royal Army Medical Corps), 66, Victoria Street, S.W.

Mons. Louis Dollo, Conservator of the Royal Museum of Natural History, Brussels.

Commandant Charles Liebrechts (Secrétaire Général du Département de l'Intérieur, Etat Indépendant du Congo), Brussels.

Arthur Marsden, Esq., H.B.M. Vice-Consul, Mombasa.

William N. McMillan, Esq., Claridge's Hotel, Brook Street, W. (*temp.*).



Lt.-Col. James Hayes-Sadler, C.B., H.B.M. Commissioner and Consul-General, Entebbe, Uganda.

Dr. H. Emile Sauvage, Director of the Musées Communaux, Boulogne-sur-Mer.

Herr Johann Stolzmann, Director of Count Branicki's Ornithological Museum, Warsaw.

Capt. Frank Wall, I.M.S. (75th Carnatic Infantry), Cannanore, Madras.

Col. Arthur E. Ward, Srinagar, Kashmir.

Herr Herluf Winge, Zoological Museum, University, Copenhagen.

Dr. Willy Wolterstorff, Curator of the Museum of Natural History, Magdeburg.

Bernard H. Woodward, Esq., F.G.S., Director of the Natural History Museum and Art Gallery, Perth, W. Australia.

*Presentation of the Silver Medal of the Society.*

Since the last Annual General Meeting, the Silver Medal of the Society has been presented to Mr. Arthur Thomson, Assistant Superintendent at the Gardens, in consideration of his faithful services to the Society for a period of 34 years. Mr. Thomson received in 1872, the Bronze Medal of the Society for his services in connection with the successful rearing of a young Hippopotamus.

SCIENTIFIC MEETINGS.

To the twelve meetings for the despatch of scientific business held in the Society's Rooms in Hanover Square in 1904, 92 communications were made. Of these, 80 were from Fellows and 5 from Corresponding Members. The remaining 7 papers were from individuals not belonging to the Society, and were communicated to it by the Secretary or by other Fellows. The corresponding number of communications in the year 1903 was 114.

These communications were submitted to the Committee of Publication, by which 56 were ordered to be printed in the 'Proceedings,' such illustrations being in each case allowed as the Committee considered necessary for the purpose. Of the remaining communications abstracts or extracts were considered to be sufficient for publication.



## SCIENTIFIC PUBLICATIONS.

*Proceedings.*

As announced in the Report for 1900, the 'Proceedings' of the year are now issued in two volumes, each of which contains two parts.

The two volumes for 1904 contain altogether 1,010 pages with 60 plates and 243 illustrations in the letterpress. In the following Table are given the numbers of plates and pages of the volumes of 'Proceedings' for the past ten years:—

	plates.	pages.		plates.	pages.
1895 . .	56	1059	1900 . .	62	1063
1896 . .	52	1110	1901 . .	69	1144
1897 . .	57	1013	1902 . .	68	813
1898 . .	66	1091	1903 . .	57	780
1899 . .	72	1108	1904 . .	60	1010

*Transactions.*

Of the Society's quarto 'Transactions' one part was published in 1904, viz. :—

VOL. XVII. PART III. (October, 1904).

A Monograph of the Fishes of the Family *Loricariidæ*.  
By C. Tate Regan, B.A., F.Z.S. (With 13 Plates.)

Another memoir, of which the title is subjoined, has been ordered by the Committee of Publication to be printed in the 'Transactions,' and will be proceeded with without delay:—

A Contribution to our Knowledge of the Varieties of *Lacerta muralis* in Western Europe and North Africa.  
By G. A. Boulenger, F.R.S., V.P.Z.S. (Read February 21st, 1905.)

*Zoological Record.*

The 40th volume of the 'Zoological Record' (which contains a summary of the work done by Zoologists all over the world in 1903), edited by Dr. David Sharp, F.R.S., was published and issued to the subscribers on December 31st, 1904.

The 'Zoological Record,' after Vol. 40, will be published by the Society at the price of 40s. per volume. All Fellows of the Zoological Society will have the



privilege of receiving it, including the cost of delivery, at a subscription price of 30s. per annum, the subscription being due on the first of July each year.

Beginning with Volume XXXIX., each section of the 'Zoological Record' has been published separately as soon as ready. At present each volume consists of 20 separately paged divisions, which may be obtained in paper covers, stitched and lettered, at the following prices:—

	s.	d.
List of Abbreviations of Journals, etc.	2	0
I. General Subjects	2	6
II. Mammalia	2	6
III. Aves	6	0
IV. Reptilia and Batrachia	2	6
V. Pisces	2	6
VI. Tunicata	1	0
VII. Mollusca	4	0
VIII. Brachiopoda	1	0
IX. Bryozoa	1	0
X. Crustacea	2	6
XI. Arachnida	2	0
XII. Myriopoda	1	6
XIII. Insecta	12	0
XIV. Echinoderma	3	6
XV. Vermes	3	0
XVI. Cœlenterata	1	6
XVII. Spongiæ	2	0
XVIII. Protozoa	2	0
Index of new names of genera and subgenera	2	0

*List of Institutions in receipt of the Society's Publications.*

A full list of these Institutions was printed in the Report for 1902; in 1903 no change was made; in 1904 the following Institution was added:—

The Carnegie Museum . Pittsburg, Pa., U.S.A.

*Garden Guide.*

The last copies of the old Guide written by Mr. Sclater and taken over by the Society on his resignation, were sold early in 1904, and the first edition of the new "Official Guide to the Gardens," written by the present Secretary, was immediately put on sale. The New Guide is larger in size and consists of 112 pages, with 50 illustrations reproduced from photographs taken by Mr. W. P. Dando, F.Z.S., a Plan of the Gardens and a Railway and Street Map showing modes of access from different



parts of London. The Guide is printed by Messrs. Bradbury, Agnew and Co.; it is published by the Society at the Offices, 3, Hanover Square, and sold there and at the Gardens at the price of sixpence in paper covers, or one shilling bound in cloth. The copyright and the profits of sale belong to the Society. The first Edition of 26,565 copies was sold out in the course of the year; a second edition of 15,000 is expected to last until Easter 1905, by which time a third edition with many new illustrations will be ready.

POST CARDS.—Pictorial Postcards made from illustrations in the Guide were put on sale in the course of the year, and have met with great approval by the public.

#### LIBRARY.

The Library, under the superintendence of Mr. F. H. Waterhouse, the Society's Librarian, was maintained in good order throughout the year and has been much resorted to by working naturalists. Altogether 1880 visits were paid to it by Fellows and persons introduced by them. About 1410 volumes were borrowed from it under the usual regulations.

In the course of the year the Council raised the Salary of the Librarian by £50 per annum, in consideration of his long and valuable services.

Many important additions to the Library were made during the past year, among which attention may be called to the following donations:—

<i>Donor.</i>	<i>Donation.</i>
E. Arrigoni Degli Oddi .	Manuale di Ornitologia Italiana. 1904.
F. E. Beddard .....	Sitzungsb. K. böhmischen Gesell. 1903.
W. T. Blanford .....	Handbook to the Natural History of Cambridgeshire. By J. E. Marr and A. E. Shipley. 1904.
British Museum .....	Catalogue of the Books, Manuscripts, Maps and Drawings. Vol. II., E to K. 1904.
	Theobald. Economic Zoology (2nd Report). 1904.
	History of the Collection contained in the Natural History Department. Vol. I. 1904.
	Seward. Catalogue of Mesozoic Plants. Vol. II. 1904.



<i>Donor.</i>	<i>Donation.</i>
Alphonse Dubois .....	Synopsis Avium. Fasc. XV.-XVII. 1904.
V. Fatio .....	Fauna des Vertébrés de la Suisse. Oiseaux. Vol. II., Part 2. 1904.
Sir Joseph Fayrer .....	An account of the Indian Triaxonia, collected by the Royal Indian Marine Survey Ship, "Investigator." By F. E. Schulze. 1902. Translation by R. von Lendenfeld. Deep Sea Crustacea, &c. By A. Alcock. 1901.
F. Finn .....	Guide to the Zoological Collection ex- hibited in the Bird Gallery of the Indian Museum. 1900.
J. D. F. Gilchrist.....	Marine Investigations of South Africa., Vol. II., No. 5. 1903. Report of the Biologist. 1903.
E. Haeckel .....	Die Lebenswunder. 1904. Kunst-Formen der Natur. Lief. X. 1904.
F. W. Hutton .....	Index Faunæ Novæ Zealandiæ. 1904. The Animals of New Zealand. 1904.
H.S.H. Albert, Prince of Monaco.	Résultats des Campagnes scientifiques accomplies sur son Yacht par Albert 1 <sup>er</sup> Prince Souverain de Monaco. Fasc. xxv.-xxvii.
F. Moore .....	The Zoological Keepsake. 1830.
J. Murie .....	Sea Fisheries and Fishing Industries of the Thames Estuary. Part I. 1903.
A. Negreiros .....	Le Mozambique. 1904.
A. Newton .....	Observationes in Historiam Naturalem et Anatomiam comparatam in itinere Groenlandico factae. By M. G. Mandt. 1822.
A. Pichot .....	Les Oiseaux de Sport. 1903.
P. St. M. Podmore .....	A Sporting Paradise. 1904.
C. Davies Sherborn .....	Index Animalium. Part I. 1902. A Glossary of Fossil Mammalia. By J. E. Gore. 1874.
Max Weber .....	'Siboga-Expeditie.' Livr. xii.-xvi. 1904.

Some of the most important additions to the Society's Library purchased since the last Anniversary are the following:—

- || Ahrens (A.). Fauna Insectorum Europæ. 24 Parts. 12mo.  
Hæle 1812-45.  
André (E.). A Naturalist in the Guianas. 8vo. London, 1904.  
Ballowitz (E.). Die Entwicklungsgeschichte der Kreuzotter.  
(*Pelias berus*.) 4to. Jena, 1903.



- Becker (T.), Bezzi (M.), Bischof (J.), Kertész (K.), und Stein (P.). Katalog der paläarktischen Dipteren. 2 Vols. 8vo. Budapest, 1903.
- Dusuzeau et Sonthonnax. Essai de Classification des Lépidoptères producteurs de Soie. Fasc. i-iv. 8vo. Lyon, 1897-1904.
- Calwer (C. G.). Käferbuch. Naturgeschichte der Käfer Europas. 5te Aufl. 8vo. Stuttgart, 1903.
- Findlay (F. R. N.). Big Game Shooting and Travel in South-East Africa. 8vo. London, 1903.
- Gistel (J.). Naturgeschichte des Thierreichs. Für höhere Schulen. 2te Aufl. 4to. Stuttgart, 1851.
- Gruvel (A.). Monographie des Cirrhipedes ou Thécostracés. 8vo. Paris, 1905.
- Harvie-Brown (J. A.), and Macpherson (H. A.). Fauna of the North-West Highlands and Skye. 8vo. Edinburgh, 1904.
- Henneguy (L. F.). Les Insectes. Morphologie, Reproduction, Embryogénie. 8vo. Paris, 1904.
- Jammes (L.). Zoologie Pratique. 8vo. Paris, 1904.
- Lo Bianco (S.). Pelagische Tiefseefischerei der "Majá" in der Umgebung von Capri. 8vo. Jena, 1904.
- Leutholf (J.). Jobi Ludolfi alias Leutholf dicti Historia Æthiopica. Folio. Frankfort-on-Main, 1681.
- Maxwell (H.). British Fresh-Water Fishes. 4to. London, 1904.
- Millais (J. G.). The Mammals of Great Britain and Ireland. Vol. I. Folio. London, 1904.
- Morgan (T. H.). Regeneration. 8vo. New York, 1901.
- Morley (C.). Ichneumonologia Britannica. 8vo. Plymouth, 1903.
- Pavie (A.). Mission Pavie Indo-Chine, 1879-95. 4to. Paris, 1904.
- Pearson (H. J.). Three Summers among the Birds of Russian Lapland. 8vo. London, 1904.
- Penard (E.). Les Héliozoaires d'Eau douce. 4to. Genève, 1904.
- Simpson (F.). The Book of the Cat. 4to. London, 1903.
- Ward (R.). Records of Big Game. 4th ed. 8vo. London, 1903.
- Weber (M.). Die Säugetiere. 8vo. Jena, 1904.

The following is a list of the principal zoological works in course of publication, of which parts were purchased in 1904:—

- André. Species des Hyménoptères. Tome vii. bis., fasc. 84, 86, 87; ix., fasc. 85.
- Barrett. Lepidoptera of the British Islands. Parts cv.-cxii.
- 'Belgica.' Expedition Antarctique Belge. *Nemertinen*, by O. Bürger; *Nématodes Libres*, by J. G. Dedlan; *Hydroïden*, by C. Hartlaub; *Poissons*, by L. Dollo; *Seesterne*, by H. Ludwig; *Bryozoa*, by A. W. Waters.
- Biologia Centrali-Americana. Edited by F. DuCane Godman, Zoology, Parts clxxxi.-clxxxv.



- Bronn's Thier-reich. Band ii. (*Echinoderma*), Lief. 65-66; Band iii. Suppl. (*Tunicata*), Lief. 44-52; Band v. (*Arthropoda*), Lief. 69-71; Band vi. Abth. 1. (*Pisces*), Lief. 13-15; (*Mollusca*), Lief. 66-74; (*Turbellaria*), Lief. 63, 64.
- Distant's Insecta Transvaaliensia. Part v.
- Fasciculi Malayenses. Zoology. Part ii.
- Fauna Hawaiiensis. Vol. iii. Part iv.
- Hartert. Die Vögel der paläarktischen Fauna. Hefte i., ii.
- Hertwig. Handbuch der vergleichenden und experimentellen Entwicklungslehre der Wirbeltiere. Lief. 16-20.
- Hofmann. Die Schmetterlinge Europas. 3te Aufl. Von A. Spuler. Lief. xx.-xxvii.
- India. Fauna of British India. Rhynchota, Vol. ii. Part 1. By W. L. Distant.
- Kerremans Monographie des Buprestides. Tome i. Livr. 1, 2.
- Kobelt. Iconographie der schalentragenden europäischen Meeresconchylien. Band iii., Lief. 5-6.
- Rossmässler's Iconographie der europäischen Land- und Susswasser-Mollusken. N. F. Band x., Lief. 5-6; and Band xi.
- Leuckart und Chun. Bibliotheca Zoologica. Heft xlii.
- Maldive and Laccadive Archipelagoes. Vol. ii. Part 3.
- Martini und Chemnitz. Conchylien-Cabinet. Lief. 485-494.
- Moore. Lepidoptera Indica. Parts 67-68.
- Naumann's Naturgeschichte der Vögel Deutschlands. Lief. 138-150.
- Patagonia. Princeton University Expeditions, 1896-99. Vol. ii. Ornithology, Part 1; Vol. viii. Botany, Part 5.
- Reichenow (A.). Die Vögel Afrikas. Band iii. Hälfte 1.
- Retzius. Biologische Untersuchungen. Neue Folge. Bd. xi.
- Rey. Die Eier der Vögel Mitteleuropas. Lief. 17-26.
- Römer and Schaudin. Fauna Arctica. III., Lief. 3.
- Sacco. I Molluschi del Piemonte. Part xxx.
- Semper. Reisen im Archipel der Philippinen. Bd. viii., Heft 6; ix. Heft 6, Lief. 1.
- Swedish Zoological Expedition. Part i.
- Taylor. Land and Freshwater Mollusca of the British Islands. Part x.
- Tierreich. Lief. 20.
- Tryon. Manual of Conchology. Ser. 2, Parts lxiii.-lxvi.
- 'Valdivia.' Wissenschaftliche Ergebnisse der Deutschen Tiefsee-Expedition auf dem Dampfer 'Valdivia' 1898-99, Band iv., vi., vii. Lief. 1-6; viii. Lief. 1.
- Wytsman. Genera Insectorum. Fasc. 14<sup>b</sup>, 17<sup>b</sup>, 17<sup>c</sup>, 17<sup>d</sup>, 18<sup>c</sup>, 19<sup>c</sup>.

The following is a list of periodicals received in 1903 from the various Societies and Institutions with which this Society is in correspondence.

AFRICA.

Cape Town: S. Afr. Mus., Annals, iii. (4, 5), iv. (1, 6); Report 1903, 1904.



- Cape Town : S. Afr. Phil. Soc., Trans. xiii. (part 1) ; xiv. (part 5) ;  
 xv. (parts 1, 2).  
 " " S. Afr. Assoc. Adv. Sci. Report 1903.

## AMERICA (North).

- Albany : Albany Mus. Records i., parts 1, 3.  
 Boston : Amer. Acad. of Arts. & Sci., Proc. xxxix., nos. 6-24 ; xl.,  
 nos. 1-9 ; Memoirs xiii., no. 1.  
 Brooklyn : Inst. of Art. & Sci., Memoirs Vol. i., 1.  
 Cambridge, Mass. : Mus. Comp. Zool. Harvard Coll., Bull. xxxix.,  
 no. 9 ; xli., no. 2 ; xlii. no. 5 ; xliii., no. 1-3 ; xliv.,  
 xlv., nos. 1-3 ; xlvi., nos. 1, 2 ; Mem. xxix., xxx.,  
 no. 1 ; Annual Rep. 1903-1904.  
 " " Tufts College ; Studies, no. viii.  
 Chicago : Field Columbian Mus., Rep. Ser., ii., no. 3 ; Zool. Ser. iii.,  
 nos. 12-16 ; iv., nos. 1, 2.  
 Indianapolis : Indiana Ac. Sci., Proc. 1902.  
 Montreal : Roy. Soc. Canada, Proc. and Trans. ser. 2, ix.  
 New York : Amer. Mus. Nat. Hist., Bull. xviii., parts 2, 3 ; xx.,  
 art. 1-38 ; Journ. iv., nos. 1-4 ; Mem. i., part 8 ;  
 Ann. Rep., 1903.  
 " " N. Y. Acad. Sci., Annals, xiv., part 4 ; xv., part 2.  
 " " Zool. Soc., Rep. 8th 1903 (1904) ; Bull. nos. 12-15.  
 Ottawa : Geol. Surv. Canada, Rep. N. S. xiii. ; Catalogue of  
 Canadian Birds, part 3, by J. Macoun ; Map of the  
 N. W. Territories and the Province of Manitoba.  
 Philadelphia : Acad. Nat. Sci., Proc. lv., part 3 ; lvi., parts 1, 2 ;  
 Entomol. News, xiv., nos. 9, 10 ; xv., nos. 1-10 ;  
 Journ. ser. 2, xii., no. 4.  
 " Amer. Ent. Soc., Trans. xxix., no. 4 ; xxx., nos. 1-3.  
 " Amer. Phil. Soc., Proc. xlii., no. 174 ; xliii., nos.  
 175-177.  
 Pittsburg : Carnegie Mus. Annals, i., ii., nos. 1-3 ; Memoirs, i., ii.,  
 no. 1 ; Report, 1899-1904 ; Prize Essays, 1899-03.  
 Toronto : Univ. of Toronto, Studies (Biol. Ser.), nos. 4, 5.  
 Urbana : Illinois State Lab. Nat. Hist., Bull. vii., articles 1-3.  
 Washington : Biol. Soc., Proc. xvi., pp. 171-182 ; xvii., pp. 1-160.  
 " Smiths. Inst., Ann. Rep. 1903 (1904) ; Contr. to  
 Knowledge, xxxiii., xxxiv., nos. 1438, 1459 ; Miscell.  
 Coll. nos. 1417, 1440, 1441, 1447 ; (Quarterly issue),  
 i., ii., part 1.  
 " U. S. Nat. Mus., xxvi., xxvii., Nutting, American  
 Hydroids, pt. 2.  
 " U. S. Fish Comm., Bull. xxii. ; Rep. 1902 (1903).  
 " U. S. Geol. Surv., Monographs, xlv., xlvi. ; Ann.  
 Rep. xxiv. ; Bull. nos. 208, 218-233, 241 ; Profes-  
 sional Papers nos. 9-28 ; Water-supply Papers  
 nos. 80-98, 101-104.  
 " U. S. Dep. Agric. (Division of Entomol.), Bull. N. S.  
 nos. 39, 40, 44, 46, 48, 49.  
 " Washington Ac. Sci., Proc. v., pp. 230-429 ; vi.,  
 pp. 1-332.



## AMERICA (South).

- Buenos Aires : Nat. Mus., Anales, ser. 3., ii.  
 Montevideo ; Nat. Mus., Anales, ser. 2, entrega 1.  
 Pará : Goeldi Mus., Boletim, iv., no. 1.  
 Rio de Janeiro : National Mus. Archives, x., xi., xii.  
 Santiago : Sci. Soc. Chili, Actes, xii., livr. 4, 5 ; xiii., livr. 1-3.

## AUSTRALIAN COLONIES.

- Adelaide : Roy. Soc. S. Austr., Trans. xxvii., part 2.  
 Melbourne : Roy. Soc. Vict., Trans. & Proc. xvi., part 2 ; xvii., part 1.  
 Sydney : Austr. Mus., Records, v., parts 2-4 ; Mem. 4, No. 7 ; Nests & Eggs of Birds of Australia, by A. J. North, part 4.  
 „ Linn. Soc. N.S.W., Proc. xxviii., part 4 ; xxix., parts 1, 2.  
 Tasmania : Roy. Soc., Papers & Proc. 1902 (1903).  
 Wellington : New. Zeal. Inst., Trans. & Proc. xxxvi. (1904).

## AUSTRIA-HUNGARY.

- Budapest : Roy. Hung. Mus., Annales, i., part 2 (1903) ; ii., part 1, 2 (1904).  
 Cracow : Acad. Sci., Bull. 1904, nos. 1-7.  
 Vienna : Imp. Acad. Sci. ; Sitzungsber., cxi., Heft 10 ; cxii., Hefte 1-3 ; Anzeiger 1904, 1-24 ; Mitteilungen, 1903, nos. 10-21.  
 „ Zool. Bot. Soc., Abhandl. ii., Hefte 3, 4 ; Verhandl. liv.

## BELGIUM.

- Brussels : Ent. Soc. Belg., Annales, xlvii ; Mem. x., xi.  
 „ Geol. Soc. Belgium, Bull, xvi., xvii., xvii.  
 „ Mus. Congo Free State, Annales (Zool.), sér 3 ; i. fasc. 1 ; ii. fasc. 1.  
 „ Roy. Acad. Sci., Mém. couronnés (4to), lxii., fasc. 5-7 ; (8vo.), lxiii., fasc. 8, lxiv., lxv., lxvi ; Bull. 1903, nos. 11, 12 ; 1904, nos. 1-6 ; Annuaire, 1904.

## CHINA.

- Shanghai : Roy. Asiatic Soc., China Branch, Journ. xxxiii.

## EAST INDIES.

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## THE GARDENS, REGENT'S PARK.

## NEW WORKS AND REPAIRS.

The Committee of Re-organisation, appointed in the end of 1902, at the suggestion of the President, recommended that no effort should be spared to bring the Gardens into a condition worthy of the Society. The Council have actively pursued this policy and believe that great progress has been made not only with the restoration and maintenance of existing buildings and the provision of new buildings, but with the general arrangements for the comfort and display of the animals and for the convenience of Fellows and visitors. The Garden Committee has been increased in numbers and has met regularly at the Gardens. Individual members of Council have given much personal attention to the Gardens, and many valuable suggestions, for which the Council desire to express their thanks, have been received from Fellows and visitors. Early in the year, the Superintendent was sent on a visit of inspection to Continental Gardens, and much useful information was given in his report. The chief alterations and improvements that were wholly or nearly finished within the year are as follows:—

## NORTH GARDEN.

ENTRANCE LODGE.—This building, and the entrance gates, railings and turnstiles, have been thoroughly repaired, cleaned and painted.

INSECT HOUSE.—New ventilators have been fitted.

NORTHERN STABLES.—The ground surrounding these has been laid out and added to the public part of the Gardens. Further progress has been made with levelling and preparing for future use the unoccupied ground on the north bank of the canal.

## MIDDLE GARDEN.

KANGAROO Paddock.—The ground on the east side of the tunnel walk has been cleared of underwood and surrounded with a high fence, turning it into an out-door



paddock for the Kangaroos. Doors have been made into this from the back of the Kangaroo Sheds.

SNOW LEOPARD'S ENCLOSURE.—This has been divided in two, wind shelters and sleeping chambers have been erected and the floor has been cemented.

OLD SMALL CATS' HOUSE.—This building which was in a very bad condition, has been thoroughly cleaned and painted within and without. The Cats have been removed to the new Small Mammals' House, and the restored building is being used for small creatures, such as Squirrels.

CANAL BANK AVIARY.—Numerous shelters and roosting boxes have been fitted. Provision for the accommodation of Crows, Gulls and Herons has been arranged for elsewhere, so that this Aviary, as was originally intended, now contains only Parrots and their allies.

ELEPHANT HOUSE.—The roof has been repaired and the house cleaned and painted within and without.

GIRAFFE HOUSE.—The interior has been painted with a tint which forms a suitable background for the animals.

ZEBRA HOUSE.—This has been thoroughly restored, new wood-work provided for the stalls and the whole has been painted.

EXITS TO THE OUTER CIRCLE.—These have been repaired and painted.

#### SOUTH GARDEN.

HOUSING OF THE STAFF.—The Council regard it as of first-rate importance that the resident Staff, upon which so much of the success of the Gardens depends, should be properly housed. In 1903 the Superintendent's House and the Office accommodation were enlarged and greatly improved. In 1904 the Assistant Superintendent's House was put in thorough order, two rooms and a new bath-room and wash-house being added, and the drains, which were defective, were renewed. To provide a residence for a head-keeper, and quarters for the resident helpers, who previously had no proper accommodation, the new Lodge for Keepers, of which a photographic illustration is given, was built. The Lodge is placed





KEEPERS' LODGE, 1904.—ZOOLOGICAL SOCIETY OF LONDON.



near the Main Entrance and is a substantial brick building consisting of a Cottage for the Head Keeper, and a kitchen, scullery, common-room, eight small bedrooms and a bath-room for the men.

**NEW SMALL MAMMAL HOUSE.**—This building, of which a photographic illustration is given, was designed in 1903, and completed in 1904 on the site of the old Small Mammal House. It is about 72 feet long by 35 wide, with an outbuilding at the rear containing the heating chamber, store room, and keeper's room. A central passage for visitors runs through the main building from the entrance porches at the ends. On the inner side of the passage the wall is lined by a series of cages, designed for small and delicate creatures. The outer side is lined by fourteen large inner cages each of which communicates by a small door with a corresponding out-door cage, roofed by glass, but otherwise open to the air. The partitions between the cages are moveable, so that the sizes of the compartments may be altered to suit different occupants.

**DENS FOR JACKALS AND FOXES.**—The space in front of the Small Mammal House has been levelled and laid out with new walks. The concrete bottoms of the old Garganey Duck ponds have been covered with mounds of sand and rock-work and surrounded by iron railings, forming natural accommodation for Jackals and Foxes.

**THE MAIN ENTRANCE AND SOUTH ENTRANCE LODGES.**—These have been thoroughly restored, the railings have been painted, and new registering apparatus for the turnstiles has been supplied.

**PATHOLOGICAL LABORATORY.**—Two rooms have been erected and fitted up as a laboratory chiefly for microscopic and bacteriological work. The Council hope that the knowledge gained by more exact investigations into the causes of death of animals at the Gardens will ultimately lead to a diminution in the death-rate and to an increase in the general health of the Menagerie.

**ANTHROPOID APE HOUSE.**—A large platform has been placed in the public portion of this house for the convenience of visitors. The ventilation of the portion occupied by the Apes has been improved, and an outside cage has been built.



OLD CROWS' CAGES.—These have been cleaned, repaired, and painted, rewired and fitted with sleeping boxes for monkeys.

BEARS' DENS.—The range facing the Fellows' Pavilion has been cleaned, repaired, and painted, and the covered gallery completely restored.

ANTELOPES' HOUSE.—Ventilators have been fixed, the old water pipes and gutters removed and replaced; mangers have been fixed in the compartments, and many general repairs made.

LION HOUSE.—Considerable repairs have been done to the roof, including the cutting away of defective beams and building up of new supporting columns of brickwork. The complete repairing and painting of the building, although now finished, falls within the work of 1905.

REPTILE-HOUSE.—This has been thoroughly repaired, including extensive alterations to the roof, and the whole has been painted within and without.

WAPITI DEER SHEDS.—These have been painted and repaired.

FELLOWS' PAVILION.—This has been repaired and decorated. In the course of the work it was found that the floor was affected with dry-rot on account of the defective ventilation. A new floor was laid, and proper ventilation provided. Alterations were made in the service accommodation to suit the pressure on Saturday and Sunday afternoons. The enclosed lawn in front of the pavilion has been enlarged and a waste space at the back of the building has been arranged as a private Garden for Fellows. Arrangements have been made with the refreshment contractors to reserve for Fellows a room at the Refreshment Rooms on Saturday and Sunday afternoons in Winter, when the Fellows' Pavilion is closed.

BAND STAND.—This has been redecorated.

REFRESHMENT ROOMS.—The Main Refreshment Rooms have been thoroughly repaired and redecorated and extensive alterations and improvements made in the kitchen, larder and service accommodation. The refreshment bars in other parts of the Gardens have been repaired and painted.

Smaller Repairs and Restorations have been made to many houses and buildings, including much work in the back premises. Many of the old defective drains have been



stopped and replaced by a modern system. The roads have been greatly improved. An extension of the water main has been laid along the Outer Circle to supply the Keepers' Lodge, the Superintendent's House and a Fire Hydrant at the West end of the Gardens.

*New Works in Progress.*

In the autumn of 1904, the Garden Committee and Council arranged the general lines of the scheme of works and repairs for the current year. This scheme, with which considerable progress has been made already, consists in the first place of active prosecution of the general work of restoring and renewing existing buildings, and secondly, the erection of certain new buildings or enclosures. The most important items are as follows:—

**GARDENER'S LODGE.**—This, which was much out of repair, is being thoroughly overhauled and additions are being made.

**PARROT HOUSE.**—A new roof and floor are being made and a series of out-door aviaries erected along the South side.

**NEW SEA-LIONS' POND.**—On the site immediately to the westward of the existing Pond, a large new Pond with Rock-work and dens is being made. It is hoped that this will be completed early in the summer.

**NEW GREAT AVIARY.**—The success of the Old Great Aviary and of the Canal Bank Aviary has led the Council to proceed with the erection of a New Large Aviary, on the site between the New Sea-Lions' Pond and the Swine's House. This will be used for the accommodation of Gulls and probably also of Herons.

**OWL HOUSE.**—Plans have been prepared for an Aviary for Owls and it is hoped that this will be finished in the course of the year, probably on the east side of the South Garden near the Refreshment Rooms.

Other smaller works are under consideration.

**STAFF AT THE GARDENS.**

Few changes have taken place in the course of the year. Mr. A. Bertling, for many years in the office at the



Gardens, was appointed Head Keeper, and given special charge of the birds in the Collection. The following table shows the number of the staff.

*Menagerie Staff.*

1 Superintendent.	2 Stokers.
1 Assistant Superintendent.	2 Night-Watchmen.
1 Head Keeper.	1 Cook.
19 Keepers.	3 Money Takers.
23 Helpers.	1 Office Clerk.
1 Stableman.	1 Office Boy.
1 Storekeeper.	1 Time-keeper.
2 Butchers.	

*Works Staff.*

1 Clerk of the Works.	1 Networker.
3 Carpenters.	13 Painters.
1 Bricklayer.	1 Writer.
1 Smith.	12 Labourers.
2 Wireworkers.	1 Boy.
1 Engine-driver.	

*Gardener's Staff.*

1 Head Gardener.	10 Garden Labourers.
3 Propagators.	1 Boy.

*Prosectorium Department.*

1 Prosector.	1 Assistant.
1 Pathologist.	

VISITORS.

The weather in 1904 was favourable, especially in the first half of the year, and there has been a large increase in the number of admissions. The decrease in the number of Visitors admitted on Saturdays by Fellows' Orders is an indication of the tendency amongst Fellows to exercise the



option of exchanging the book of Saturday orders for 20 undated green tickets.

	1903.	1904.
Fellows and Companions ... ..	21,861	25,698
Do. Saturday orders ... ..	13,962	13,560
Do. Sunday orders ... ..	43,599	47,929
Do. Green tickets ... ..	71,913	81,530
Do. Buff tickets ... ..	11,073	12,560
Do. Ivory tickets ... ..	967	993
Honorary Admission tickets ... ..	1,275	1,201
Red tickets (Complimentary) ... ..	1,761	1,235
Artists' tickets ... ..	1,317	279
Excursion tickets (reduced price) ... ..	3,555	4,999
Single tickets sold in office at ordinary price ... ..	257	442
Paying visitors at 1s. each... ..	168,940	183,178
Do. do. Mondays and other days at 6d. each	240,059	258,911
Do. do. Children at 6d. each	54,552	51,783
Staff... ..	171	89
Charity, National, and Board School Children (admitted free) ... ..	21,946	21,687
	<u>657,208</u>	<u>706,074</u>

(Increase, 48,866.)

Of the total number of visitors no less than 114,944 were admitted on Sundays.

The numbers of visitors on Bank Holidays are interesting. Easter Mondays are the best days of the year, and the numbers depend less on the weather. On Whit-Monday and the August Bank Holiday, while really wet weather is disastrous, fine settled weather leads the populace to go further from town :—

#### NUMBER OF VISITORS ON BANK HOLIDAYS.

	1903.	1904.
Easter Monday... ..	34,448 (Fine)	34,350 (Unsettled)
Whit-Monday ... ..	25,849 (Very fine)	33,391 (A fine day in unsettled weather)
First Monday in August	25,349 (Rainy morning)	20,042 (Very fine and settled weather)

The number of visitors to the Society's Gardens in every year since their opening in 1828 is given in the subjoined table :—



*Number of Visitors to the Gardens, 1828-1904.*

Year.	Number.	Year.	Number.
1828 ...	98,605	1867 ...	556,214
1829 ...	189,913	1868 ...	573,186
1830 ...	223,420	1869 ...	572,848
1831 ...	262,193	1870 ...	573,004
1832 ...	206,652	1871 ...	595,917
1833 ...	211,343	1872 ...	648,088
1834 ...	208,583	1873 ...	713,046
1835 ...	210,068	1874 ...	706,907
1836 ...	263,372	1875 ...	699,918
1837 ...	173,778	†1876 ...	915,764
1838 ...	179,197	1877 ...	781,377
1839 ...	158,432	1878 ...	706,713
1840 ...	141,009	1879 ...	643,000
1841 ...	132,616	1880 ...	675,979
1842 ...	107,459	1881 ...	648,694
1843 ...	98,280	1882 ...	849,776
1844 ...	101,527	1883 ...	743,485
1845 ...	99,615	1884 ...	745,460
1846 ...	100,045	1885 ...	659,896
1847 ...	93,546	1886 ...	639,674
1848 ...	143,630	1887 ...	562,898
1849 ...	168,895	1888 ...	608,402
1850 ...	360,402	1889 ...	644,579
*1851 ...	667,243	1890 ...	640,987
1852 ...	305,203	1891 ...	598,730
1853 ...	409,076	1892 ...	605,718
1854 ...	407,676	1893 ...	662,649
1855 ...	315,002	1894 ...	625,538
1856 ...	344,184	1895 ...	665,326
1857 ...	339,217	1896 ...	665,004
1858 ...	351,580	1897 ...	717,755
1859 ...	364,356	1898 ...	710,948
1860 ...	394,906	1899 ...	696,707
1861 ...	381,837	1900 ...	697,178
†1862 ...	682,205	1901 ...	725,685
1863 ...	468,700	1902 ...	694,496
1864 ...	507,169	1903 ...	657,208
1865 ...	525,176	1904 ...	706,074
1866 ...	527,349		

\* Year of the Great Exhibition.  
 † Year of the International Exhibition.

‡ Year of the exhibition of the Prince of Wales's Indian Menagerie.



## EXCURSION TICKETS.

Certain alterations have been made in the regulations for the admission of Excursion and School Parties. The rules in operation are as follows :—

ADULTS.	CHILDREN UNDER 12 YEARS.
50 to 100 @ 9 <i>d.</i> each.	50 to 100 @ 5 <i>d.</i> each.
101 to 250 @ 8 <i>d.</i> each.	101 to 250 @ 4 <i>d.</i> each.
251 to 500 @ 7 <i>d.</i> each.	251 and upwards @ 3 <i>d.</i> each.
501 and upwards @ 6 <i>d.</i> each.	

If the date fixed for the proposed visit to the Gardens should through unforeseen circumstances, be found unsuitable, the Tickets, upon being returned to the Office, may be endorsed for another day during the year of issue.

Special packets of 50 Tickets for a Mixed Party of Adults with not less than 20 Children (under 12 years of age) may now be obtained for any fixed date (except Sunday) at the Society's Office, 3, Hanover Square, W., for the sum of thirty-three shillings (33*s.*) per packet.

Special packets of School Excursion Tickets for the admission of 25 School Children (under 14 years of age) and one Teacher, may also be obtained for any fixed date (except Sunday) at the Society's Office, 3, Hanover Square, W., at the reduced price of eleven shillings (11*s.*) per packet.

The children of Elementary or Grant-aided Schools are now admitted to the Society's Gardens at the rate of ten shillings (10*s.*) per 100 Children and Four Teachers, on Tuesdays, Wednesdays, Thursdays and Fridays (except during Easter and Whitsun weeks), between the hours of 9 a.m. and 1 p.m., under certain regulations, particulars of which are supplied on application.

All applications for Tickets must be made to the Secretary of the Society, at 3, Hanover Square, London, W. Payment for admission at the reduced prices cannot be accepted at the turnstiles.

On Sundays admission to the Gardens can only be obtained by an Order from a Fellow.



## PROSECTOR'S DEPARTMENT.

The Prosector of the Society, Mr. F. E. Beddard, M.A., F.R.S., reports as follows:—

“The work in the department has been carried out on the same lines as in 1903, and may be considered, as in my Report for 1903, under the following heads, viz: (1.) Deaths in the Menagerie and Post-mortems; (2.) Anatomical research carried on in the Laboratory; (3.) Material supplied to anatomists elsewhere, and to Museums; (4.) Preservation of material for future use; (5.) Information given to various persons upon zoological matters.

“(1) *Deaths during the year and post-mortems.*

“The total number of deaths during the year was 1,149, being less by 249 than the deaths which occurred in 1903. Of this total a large proportion consisted of animals that died a few days after arrival in the Gardens. The most important deaths were perhaps the following: two gorillas, one chimpanzee, one orang, four cheetahs, a Grévy's and a Grant's zebra, and the old Indian rhinoceros presented to the Society in 1864 by the late Mr. Arthur Grote. These and other animals, with the exceptions noted in the Report of last year, have been examined and the cause of death entered in the postmortem book; some of the more important deaths have also received more elaborate treatment by Dr. Salaman, who has last year as well as the year before been so kind as to make these examinations in the special book set aside for such entries.

“(2) *Anatomical research carried out in the Laboratory.*

“The work of the Prosector during the past year has dealt with a large number of animals that have died in the menagerie, principally mammals and reptiles. Upon various points in the anatomy of these ten memoirs were communicated to the Society in 1904, and published in the ‘Proceedings,’ since then four other papers have been ordered to be printed in the ‘Proceedings.’



“Facilities have also been given to several persons for carrying out work in the laboratory. Dr. Wilfred Harris has continued his work upon the brachial plexus commenced last year. Mr. L. Crawshay has devoted some time to the study of the vascular system of Amphibia. Dr. Albert Wilson has been investigating the pituitary body in a variety of animals. The Secretary has spent some time in the laboratory studying the alimentary system of mammals.

“(3) *Material supplied for purpose of research and to Museums.*

“In addition to the gentlemen mentioned in the preceding section who have actually carried on their studies in the laboratory, several others have been assisted with material for their researches.

“To Sir Victor Horsley, F.R.S., a number of brains have been forwarded. Dr. P. Page May has also received a series of preserved brains. Dr. David Forsyth, of Guy's Hospital, has been aided in his investigations into the parathyroid bodies with much material. To Dr. Keith a few specimens have been sent, and Dr. Nettleship has received a number of eyes of various orders of vertebrates.

“A number of specimens have been sent to the Natural History Museum, and to the Museum of the Royal College of Surgeons. Particularly to be mentioned is a series of beautifully injected mammalian and avian brains which has been purchased by the latter institution. These preparations form the basis of memoirs communicated to the Society by the Prosector on the vascular supply of the brain in those animals. A selection of the various organs and parts of organs of the large Indian Rhinoceros which died in December has been also acquired by the Royal College of Surgeons.

“(4). *Preservation and Storing of Material.*

“The store of spirit and formol preserved anatomical material in the Prosectorium for the future use of the Prosector or of other anatomists, has been increased during the past year by numerous additions. These additions include the injected bodies of several mammals



and reptiles, a large series of brains of mammals, birds and reptiles, injected or uninjected, and a few skins of birds &c.

“(5) *Information given to enquirers.*”

“The Prosector has examined, on behalf of their owners, the bodies of a number of dead animals, and has reported to them upon the cause of death. He has also replied verbally or by letter to a number of enquiries upon zoological matters.”

MENAGERIE.

*Provisions.*

The commissariat at the Gardens is of considerable interest. The following table gives the chief items of expenditure for 1902, 1903 and 1904.

	1902.			1903.			1904.		
	£	s.	d.	£	s.	d.	£	s.	d.
Horses ... ..	246	9	6	225	9	6	249	6	6
Goats ... ..	203	10	3	159	13	4	160	2	5
Live Fish ... ..	131	3	0	129	17	3	130	19	10
Reptile and Insect Food	160	18	9	87	17	11	79	0	6
Fruit ... ..	206	9	9	140	7	6	159	6	9
Vegetables and Roots	247	9	3	126	17	5	116	13	7
Fish ... ..	382	2	9	374	11	3	349	0	8
Eggs ... ..	120	10	3	87	19	8	82	14	6
Milk ... ..	94	18	1	78	15	3	96	8	5
Bread ... ..	104	12	2	86	1	8	86	15	6
Biscuit ... ..	176	6	0	147	16	3	162	15	3
Corn and Seeds ...	317	17	4	247	13	6	228	8	6
Oats ... ..	234	7	0	184	16	0	184	10	6
Bran ... ..	116	16	3	79	7	3	73	3	3
Maize ... ..	85	11	0	65	19	6	57	14	6
Meadow Hay ... ..	852	1	0	487	7	0	507	8	0
Clover Hay ... ..	1034	3	0	642	5	5	523	2	2
Nuts ... ..	47	12	6	33	18	8	28	4	6
Miscellaneous ...	95	4	3	109	9	5	147	9	1
	£4858	2	1	£3496	3	9	£3423	4	5



The quantity and nature of the food consumed in the Society's Menagerie during 1904 are shown by the subjoined Table :—

Clover ... ..	133 loads.	Flounders ... ..	2,201 lbs.
Hay ... ..	137 „	Plaice ... ..	9,471 lbs.
Straw ... ..	159 „	Fresh Herrings... ..	546 „
Oats ... ..	169 qrs.	Whitings ... ..	22,703 „
Barley ... ..	34½ „	Shrimps... ..	1,488 pints.
Wheat ... ..	45½ „	Fowl-heads ... ..	18,720
Peas ... ..	1½ „	Sugar ... ..	552 lbs.
Beans ... ..	6 „	Raisins ... ..	204 „
Maize ... ..	62½ „	Currants ... ..	108 „
Bran ... ..	144 „	Figs ... ..	156 „
Canary Seed ... ..	12 „	Liebig ... ..	48 pots.
Hemp Seed ... ..	8 „	Greens ... ..	513 bunches.
Rape ... ..	6 „	Carrots ... ..	486 „
Millet ... ..	4 „	Do. ... ..	109 cwt.
Buckwheat ... ..	6 „	Potatoes ... ..	81¼ cwt.
Rice ... ..	24½ cwt.	Cress ... ..	1,091 bunches.
Mawseed ... ..	28 lbs.	Bananas ... ..	1,988½ doz.
Oil-cake ... ..	60 cwt.	Apples ... ..	161½ bush.
Bread ... ..	5,087 qtns.	Grapes ... ..	1,497 lbs.
Milk (Fresh) ... ..	6,855 qts.	Dates .. ..	1,244 „
Milk (Preserved) ... ..	612 tins.	Oranges... ..	6,496
Biscuit ... ..	307 cwt.	Monkey Nuts ... ..	25 cwt.
Eggs ... ..	25,196	Spanish Nuts ... ..	18 pecks.
Horses 207, weighing 99 tons.		Brazil Nuts ... ..	103 lbs.
Goats 270, „ 1,188 stone.		Lettuce ... ..	616½ doz.

#### GENERAL CONDITION OF THE ANIMALS.

Special attention is being given to all the conditions that determine the health and comfort of the animals, and the Council believe that considerable progress has been made. Professional advice from medical men and from Veterinary Surgeons has been called in on many occasions. Since the beginning of this year, when the Society's Pathologist took up his duties, not only has a more exact investigation into the causes of death been possible, but animals on the sick list have been visited and treated by Dr. Seligmann. In all cases where the post-mortem investigation shows signs of the presence of an infective disease, the Pathologist reports to the Superintendent at once, and proper disinfection of the cages is seen to. Much has been done to improve the ventilation and clean-



liness of the houses, and special attention is being given to the modes of feeding. The success attending the efforts to allow animals more ready access to the open air has been most gratifying. The paddocks for the Kangaroos, the out-door cages for Mammals such as the Snow Leopard, Foxes and Jackals have been most successful. The improvement in the health and appearance of the Baboons and smaller monkeys kept in the open air has been very great. The Parrots and Parrakeets in the New Canal Bank Aviary have proved a great delight to visitors, and there has been a striking decrease in the rate of mortality of those kept, even throughout the winter, in the open aviary as compared with those in the heated Parrot house.

#### BREEDING.

The weather throughout the greater part of the year was more favourable to the animals than in 1903, and the breeding results, especially in the case of birds, were much better. The Council hope, however, that part of the results can be attributed to improved conditions and management.

#### *List of Mammals, bred in the Gardens in 1904.*

- 2 Lions (*Felis leo*).
- 3 Leopards (*Felis pardus*).
- 1 Levillant's Cynictis (*Cynictis penicillata*).
- 3 Crab-eating Raccoons (*Procyon cancrivorus*).
- 8 Timber Wolves (*Canis occidentalis*).
- 2 Collared Fruit Bats (*Cynonycteris collaris*).
- 7 Sebha Gerbilles (*Gerbillus tarabuli*).
- 17 Fat-tailed Desert Mice (*Pachyuromys dupressi*).
- 1 Corean Bull (*Bos taurus*).
- 1 English White Bull (*Bos taurus*).
- 1 Burchell's Zebra (*Equus burchelli*).
- 1 Arabian Gazelle (*Gazella arabica*).
- 1 Eland (*Oreos canna*).
- 3 Thars (*Hemitragus jemlaicus*).
- 2 Mouflon (*Ovis musimon*).
- 2 Burrhel Wild Sheep (*Ovis burrhel*).
- 5 Barbary Wild Sheep (*Ovis tragelaphus*).
- 1 Duke of Bedford's Deer (*Cervus xanthopygus*).



- 1 Altai Deer (*Cervus asiaticus*).
- 2 Japanese Deer (*Cervus sika*).
- 1 Hybrid Formosan Deer (*Cervus sika* ♂ ×  
*C. taëvanus* ♀)
- 1 Brindled Gnu (*Connochætes taurina*).
- 1 Llama (*Lama peruana*).

The two lion cubs were imperfectly formed and died soon after birth, although special attention had been given to the diet of the mother. There were 8 timber wolves born in 1903, but all died. In 1904, four were left with the mother, and four reared by a collie. Those nursed by the dog were stronger and better animals. Altogether, five reached maturity. The three leopard cubs were eaten by the mother.

*List of Birds bred in 1904.*

- 3 Tickell's Ouzels (*Merula unicolor*).
- 2 Glossy Ibises (*Plegadis falcinellus*).
- 2 Hybrid Ibises (*Eudocimus ruber* × *E. albus*).
- 3 Crested Screamers (*Chauna cristata*).
- 4 Black Swans (*Cygnus atratus*).
- 8 Summer Ducks (*Æx sponsa*).
- 1 Mandarin Duck (*Æx galericulata*).
- 5 Upland Geese (*Chloëphaga magellanica*).
- 5 Wild Ducks (*Anas boscas*).
- 5 Hybrid Ducks (*Anas melleri* × *A. boscas*).
- 1 Triangular-spotted Pigeon (*Columba guinea*).
- 3 Tigrine Turtle-Doves (*Turtur tigrinus*).
- 4 Hybrid Doves (*Turtur humilis* ♂ × *T. risorius* ♀).
- 2 Hybrid Doves (*Turtur douraca* ♂ × *T. semitorquatus*).
- 1 Hybrid Green-winged Dove (*Chalcoptera indica* × *C. natalis*).
- 2 Brush-Bronze Winged Pigeons (*Phaps elegans*).
- 2 Crested Pigeons (*Ocyphaps lophotes*).
- 1 Mountain-Witch Ground-Dove (*Geotrygon cristata*).
- 2 Ring-necked Pheasants (*Phasianus torquatus*).
- 26 Hybrid Pheasants (*P. mongolicus* × *P. colchicus*).
- 4 Reeves' Pheasants (*Phasianus reevesi*).
- 2 Gold Pheasants (*Thaumalea picta*).
- 3 Amherst Pheasants (*Thaumalea amherstiae*).
- 3 Sonnerat's Jungle-fowl (*Gallus sonnerati*).
- 1 Common Pea-fowl (*Pavo cristatus*).
- 1 Black-winged Pea-fowl (*Pavo nigripennis*).



- 4 Brush-Turkeys (*Talegalla lathamii*).  
 2 Jameson's Gulls (*Larus novæ-hollandiæ*).  
 2 Greater Black-backed Gulls (*Larus marinus*).  
 4 Herring Gulls (*Larus argentatus*).  
 1 Hybrid Weka Rail (*Ocydromus brachypterus* × *O. earli*).

In addition to those in the list, there were hatched out a number of chicks which did not reach maturity. Among these the more interesting were five Australian Wild Ducks, two Hybrid Rheas, one Imperial Nicobar Fruit-Pigeon, two Laughing Kingfishers, two Black Larks, five Common Mynahs, three Undulated Grass-Parrakeets and one Chestnut-eared Finch.

The total value of the birds reared in 1904 was £173 10s. as compared with £8 5s. in 1903. Of the three Crested Screamers hatched two were reared. So far as is known these birds have not bred in Europe before.

The following birds laid eggs which failed to hatch.

Globose Curassow.	Night-Heron.
Yarrell's Curassow.	New Zealand Sheldrake.
Westermann's Cassowary.	Wonga-wonga Pigeon.
One-wattled Cassowary.	Martinican Dove.
Cabot's Tragopan.	Canary Laurel Pigeon.
Argus Pheasant.	Blue Whistling Thrush.
Javan Pea-fowl.	Striated Babbler.
Ruddy-headed Goose.	Indian Crow.
Cereopsis Goose.	Grey-breasted Parrakeet.
Black-necked Swan.	

*Additions to the Menagerie in 1904.*

The number of Vertebrate Animals living in the Society's Menagerie at the close of 1903 was 2,571. The corresponding number on the 31st of December, 1904, was 2,552, as will be seen by the following Table:—

	December 31.	
	1903.	1904.
Mammals .....	683	640
Birds .....	1,324	1,448
Reptiles and Amphibia.....	492	343
Fish.....	72	121



The work of making a Card Catalogue of the Animals in the collection, containing a card for every individual in the Gardens, was completed in the course of the year. The Catalogue is kept in duplicate at the Gardens and at Hanover Square, and each day is brought up to date, by adding cards for new arrivals, and removing the cards representing deaths or departures.

The total number of registered additions to the Menagerie in 1904 was 1,804, of which 701 were acquired by presentation, 254 by purchase, 177 were bred in the Gardens, 581 were received on deposit, and 91 obtained in exchange.

The mode in which these figures compare with those of the previous ten years is shown in the following table:—

	Presented.	Purchased.	Born.	Deposited.	Received in Exchange.	Total.
1895	575	192	141	259	136	1303
1896	726	245	90	263	135	1459
1897	688	278	104	330	108	1508
1898	598	327	103	435	32	1495
1899	531	354	82	433	6	1406
1900	586	247	94	994	26	1947
1901	608	234	151	1122	86	2201
1902	502	163	80	956	30	1731
1903	414	59	68	791	41	1373
1904	701	254	177	581	91	1804

The following is a list of the more noticeable additions made to the Menagerie during the year 1904.

A fine specimen of the Hainan Gibbon (*Hylobates hainanus*), deposited on Jan. 25th.

A specimen of a Philippine Hornbill (*Penelopides affinis*), presented by Mrs. Johnstone on Jan. 26th, and new to the Collection.

Two Turkestan Wapiti (*Cervus bactrianus*), presented by the President on Feb. 23rd, probably representing a distinct subspecies.

A stallion Ghorkhar (*Equus hemionus indicus*), obtained by purchase on Feb. 26th.

A young female Snow-Leopard (*Felis uncia*), from the Pamirs, presented by Capt. J. B. Mackintosh, R.G.A., on March 9th.

Two young female Cheetahs (*Cynælurus jubatus*), from Somaliland, presented by Capt. A. E. Barnard on March 2nd.



Adult male and female examples of the Nisnas Monkey (*Cercopithecus pyrrhonotus*), from Uganda, presented by Mr. C. R. Hall on March 4th.

A Potto (*Perodicticus potto*) and two North-African Crowned Cranes (*Balearica pavonina*), from Lagos, presented by Dr. Macfarlane on March 28th.

A fine specimen of the Boatbill (*Canchroma cochlearia*, purchased on April 1st.

Two Cheetahs (*Cynælurus jubatus*), from the Soudan, presented by Brig.-Genl. B. T. Mahon, C.B., D.S.O., F.Z.S., on April 18th.

Two Keas (*Nestor notabilis*), presented by T. E. Donne, Esq., on April 26th.

Three specimens of the Andaman Banded Crake (*Rallina canningi*), presented by the Government of India on May 2nd.

A Yellow-handed Howler (*Myctes beelzebul*). Deposited on May 13th.

An Antilopine Kangaroo (*Macropus antilopinus*). Deposited on May 14th.

A Grey Solitaire (*Myiadectes unicolor*). Deposited on May 30th.

A male Buffon's Kob (*Kobus kob*), new to the Collection, received on deposit on June 2nd.

A male Goral Antelope (*Nemorhædus goral*), presented by Major George S. Rodon, F.Z.S., on June 3rd.

A male Chimpanzee (*Anthropopithecus troglodytes*), from the Congo, purchased on June 5th.

A male Speke's Antelope (*Tragelaphus spekii*) new to the Collection, received on deposit on June 27th.

Two Ural Owls (*Syrnium uralense*), received on deposit on June 29th.

A Rüppell's Colobus (*Colobus abyssinicus*), deposited on July 2nd.

Two Japanese Bears (*Ursus japonicus*), one presented by Miss Violet M. Lakin on July 11th, and the other deposited on July 28th.

A male Sing Sing Waterbuck (*Cobus unctuosus*); a male Gambian Ourebi (*Ourebia nigricaudata*); a male Ostrich (*Struthio camelus*); and three Levillant's Parrots (*Pæocephalus robustus*), presented by Capt. Sir George Denton, K.C.M.G., F.Z.S., on July 14th.

Three young male Greater Koodoos (*Strepsiceros kudu*), two deposited on July 15th, and one presented by Major G. B. Irvine, I.M.S., on December 12th.



A Yellow-crowned Penguin (*Eudyptes antipodum*), and two Rock-hopper Penguins (*Eudyptes chrysocome*), purchased on July 23rd.

A female Lar Gibbon (*Hylobates lar*), presented by Mr. C. R. Stokoe on August 9th.

A Capybara (*Hydrochaerus capybara*), presented by Messrs. The Liebig Extract of Meat Co. on August 18th.

Two young female Gorillas (*Anthropopithecus gorilla*), obtained by purchase on August 19th.

A fine specimen of Wolf's Monkey (*Cercopithecus wolfi*), deposited Sept. 5th, 1904. This beautiful species is figured in P.Z.S. 1894, pl. vii.

An Aru-Islands' Kangaroo (*Macropus brunii*), deposited Sept. 9th, 1904.

A pair of Kelp Geese (*Chloëphaga antarctica*), from the Falkland Islands, presented by Mr. Vere Packe on Sept. 14, 1904.

A Ferret-Badger (*Helictis personata*) from Burmah, presented by Capt. E. W. Burnett, on Nov. 4th. This species has not been exhibited previously in the Gardens.

Two Chimpanzees (*Anthropopithecus schweinfurthi*), a male and female, from the Bagomo Forest, Uganda, presented by Mr. Stanley C. Tomkins, C.M.G., C.M.Z.S., on Nov. 7th. These animals are nearly adult, the male being the finest Chimpanzee ever shown in the Gardens.

A male specimen of the Senegal race of the African Buffalo (*Bubalus centralis*), deposited on Nov. 21st. No example of this sub-species has been exhibited previously in the Menagerie.

Three Mouse-Hares (*Ochotona roylei*) from Baluchistan, presented by Col. Charles E. Yates on Nov. 28th. These interesting little Rodents are also new to the Collection.

Three Beatrix Antelopes (*Oryx leucoryx*), one from Aden, a female, presented by Mr. G. W. Bury on Oct. 5th, and a pair from the Persian Gulf, presented by Major P. Z. Cox, I.S.C., F.Z.S., on Oct. 22nd.

Two King Birds of Paradise (*Cicinnurus regius*), from New Guinea, purchased on Oct. 15th. New to the Collection.

A new species of Moustache Monkey (*Cercopithecus*, sp. n.), from the Gaboon, deposited on Oct. 15th.

A Du Chaillu's Monkey (*Cercopithecus nigripes*), from the Gaboon, deposited on Oct. 15th.

Two Schmidt's Monkeys (*Cercopithecus schmidti*), from the Congo, deposited on Oct. 17th.

Two Blue-tailed Fruit-Pigeons (*Carpophaga concinna*), from the Aru Islands, presented by Mrs. Johnstone on Oct. 17th.



A Hairy-eared Bear (*Ursus piscator*) from Manchuria, presented by Mr. Frederick Ringer on Dec. 13th.

Two Victoria Crowned Pigeons (*Goura victoriae*) from Jobie Island, purchased on Dec. 15th.

A young specimen of Pousargue's Guenon (*Cercopithecus pousarguei*) from Northern Nigeria, presented by Mr. L. Lester on Dec. 29th. New to the Collection.

*List of the Species new to the Collection exhibited  
during the year 1904.*

The following list gives the names of the specimens exhibited in 1904 which are referable to species not included in the last (ninth) edition (1896) of the List of Animals. It contains 8 Mammals, 19 Birds, 13 Reptiles, and 3 Batrachians.

The figures placed before each name indicate its approximate position in the List of Animals.

i. MAMMALS.

1 *a.* *Anthropopithecus schweinfurthi* Gigl. Uganda  
Chimpanzee.

*Hab.* Bagomo Forest, Uganda.

*a.* Male; *b.* Female. Presented by Stanley C. Tomkins, Esq., C.M.G., C.M.Z.S., Nov. 7, 1904. See P.Z.S. 1904, ii. p. 347.

15 *a.* *Semnopithecus priamus* (Blyth). Madras Entellus  
Monkey.

*Hab.* Southern India.

*a.* Female. Presented by H. T. Woodgate, Esq., Sept. 19, 1904.

20 *a.* *Colobus abyssinicus*. Rüppell's Colobus.

*Hab.* Abyssinia.

*a.* Presented by Mrs. W. N. McMillan, F.Z.S., July 2, 1904. See P.Z.S. 1904, ii. p. 177.



- 30 a. *Cercopithecus sp. nov.* Moustache Monkey.  
*Hab.* Gaboon.  
 a. Deposited, Oct. 15, 1904.  
 See P.Z.S. 1904, ii. p. 178.
- 37 a. *Cercopithecus pousarguei.* Pousargue's Guenon.  
*Hab.* Northern Nigeria.  
 a. Presented by L. Lester, Esq., Dec. 29, 1904.
- 44 a. *Cercopithecus nigripes* Du Chaillu. Du Chaillu's  
 Monkey.  
*Hab.* Gaboon.  
 a. Deposited, Oct. 15, 1904. See P.Z.S. 1904, ii.  
 p. 178.
- 44 b. *Cercopithecus wolfi* Meyer. Wolf's Monkey.  
*Hab.* Congo.  
 a. Male. Deposited, Sept. 5, 1904. See P.Z.S. 1904,  
 ii. p. 178.
- 47 a. *Cercopithecus schmidti* Matschie. Schmidt's Monkey.  
*Hab.* Congo.  
 a, b. Deposited, Oct 15, 1904. See P.Z.S. 1904, ii.  
 p. 178.
- 47 b. *Cercopithecus sp. nov.* Monkey.  
*Hab.* Congo.  
 a. Deposited, Sept. 5, 1904.
- 123 a. *Myctes beelzebul* (Linn). Yellow-handed Howler.  
*Hab.* South America.  
 a. Deposited, May 13, 1904. See P.Z.S. 1904, ii.  
 p. 129.
- 137 a. *Lemur spec. incert.*, Lemur.  
*Hab.* Madagascar.  
 a. Purchased, July 9, 1904.



- 150 a. *Lemur spec. incert.*, Lemur.  
*Hab.* Madagascar.  
 a. Deposited, Dec. 7, 1904.
- 150 b. *Lemur spec. incert.*, Lemur.  
*Hab.* Madagascar.  
 a. Male. Deposited, Sept. 14, 1904.
- 298 a. *Helictis personata* (E. Geoff.). Burmese Ferret-Badger.  
*Hab.* Burmah.  
 a. Presented by Capt. E. W. Burnett, Nov. 4, 1904.  
 See P.Z.S. 1904, ii. p. 347.
- 341 a. GENUS SOREX.  
*Sorex vulgaris* Linn. Common Shrew.  
*Hab.* British Islands.  
 a. Presented by R. I. Pocock, Esq., F.Z.S. Oct. 25, 1904. From Clifton.
- 514 a. GENUS OCHOTONA.  
*Ochotona roylei* (Ogilby). Himalayan Mouse Hare.  
*Hab.* Baluchistan.  
 a, c. Presented by Col. Chas. E. Yates, Nov. 28, 1904.  
 See P.Z.S. 1904, ii. p. 347.
- 546 a. *Bubalus centralis* Gray. Dwarf Buffalo.  
*Hab.* Senegal.  
 a. Received in exchange, Nov. 21, 1904. See P.Z.S. 1904, ii. p. 347.
- 560 a. *Cephalophus spec. incert.*, Duiker.  
*Hab.* West Africa.  
 a. Deposited, Oct. 17, 1904.



- 569 a. *Kobus kob* (Erxl.). Buffon's Kob.  
*Hab.* S. W. Africa.  
 a. Deposited, June 2, 1904. See P.Z.S. 1904,  
 ii. p. 177.
- 631 a. *Cervus bactrianus*. Turkestan Wapiti.  
*Hab.* Central Asia.  
 a, b. Males. Presented by H.G. The Duke of Bedford,  
 K.G. (President Z.S.), Feb. 23, 1904. See  
 P.Z.S. 1904, i. p. 416.
- 720 a. *Macropus antilopinum* (Gould). Antilopine  
 Kangaroo.  
*Hab.* Australia.  
 a. Deposited, May 14, 1904. See P.Z.S. 1904, ii.  
 p. 129.
- 720 b. *Macropus alligatoris*. Alligator-River Kangaroo.  
*Hab.* N. Australia.  
 a. Female. Deposited, Aug. 26, 1904.
- 729 a. *Macropus brunii* (Schreb.). Aru Island Kangaroo.  
*Hab.* Aru Island.  
 a. Deposited, Sept. 9, 1904. See P.Z.S. 1904, ii. p. 178  
 ii. Aves.
- 49 a. GENUS MYIADECTES.  
*Myiadectes unicolor* (Scl.). Grey Solitaire.  
*Hab.* Mexico.  
 a. Deposited, May 30, 1904. See P.Z.S. 1904, ii. p. 129.
- 130 a. *Chlorophonia callophrys* (Cab.). Blue-capped  
 Tanager.  
*Hab.* Mexico.  
 a. Deposited, May 30, 1904.



266 a. *Pheucticus aureiventris*, (D'Orb. & Lafr). Golden-bellied Grosbeak.

*Hab.* Argentina.

a. Received in exchange Feb. 26, 1904.

288 a. *Passer swainsoni*. (Rüpp.) Swainson's Sparrow.

*Hab.* East Africa.

a, b. Received in exchange, Nov. 30, 1904.

378 a. *Icterus pustulatus*. (Wagl.) Pustulated Hangnest.

*Hab.* Mexico.

a. Deposited Aug. 12, 1904.

414 a. GENUS AMPELICEPS.

*Ampeliceps coronatus*. (Blyth). Gold-crested Mynah.

*Hab.* India.

a. Deposited May 5, 1904.

427 a. GENUS CICINNURUS.

*Cicinnurus regius*. (Linn). King Bird of Paradise.

*Hab.* New Guinea.

a. b. Males. (Purchased) Oct. 15, 1904. See P.Z.S. 1904, ii. p. 178.

547 a. GENUS PENELOPIDES

*Penelopides affinis*. (Tweedd). Philippine Hornbill.

*Hab.* Philippine Islands.

a. Presented by Mrs. Johnstone. Jan. 26, 1904. See P.Z.S. 1904, i. p. 178.

578 a. GENUS CAPITO.

*Capito auratus*. (Dumont). Golden-throated Barbet.

*Hab.* Upper Amazons.

a. Presented by Mrs. Johnstone, Aug 29, 1904.



- 720 a. *Chrysotis caymanensis* Cory. Cayman Island  
Amazon.  
*Hab.* Cayman Island.  
*a, b.* Deposited, June 4, 1904.
- 720 b. *Chrysotis bahamensis* Cory. Bahama Amazon.  
*Hab.* Bahamas.  
*a.* Purchased, March 7, 1904.
- 749 a. *Tanygnathus everetti* Tweedd. Everett's Thick-  
billed Parrakeet.  
*Hab.* Philippine Islands.  
*a.* Purchased, Feb. 2, 1904.
- 795 a. *Psephotus xanthorrhous* Gould. Yellow-vented  
Parrakeet.  
*Hab.* Australia.  
*a, b.* Deposited, April 21, 1904.
- 1146 a. *Dendrocygna sp. incert.* Tree Duck.  
*Hab.*  
*a, b.* Deposited, March 10, 1904.
- 1222 a. *Carpophaga concinna* Wall. Blue-tailed Fruit  
Pigeon.  
*Hab.* Aru Islands.  
*a, b.* Presented by Mrs. Johnstone, Oct. 17, 1904. See  
P.Z.S. 1904, ii. p. 178.
- 1298 a. *Leptoptila reichenbachi* Pelz. Reichenbach's Dove.  
*Hab.* South America.  
*a, b.* Received in exchange, Nov. 30, 1904.
- 1336 a. *Francolinus jacksoni* Grant. Jackson's Francolin.  
*Hab.* East Central Africa.  
*a, b.* Presented by S. L. Hinde, Esq., C.M.Z.S., and  
Mrs. Hinde, March 17, 1904. From Tousu,  
Karuri's Country.



1336 *b.* *Francolinus schuetti* Cab. Shuett's Francolin.  
*Hab.* East Central Africa.

*a, b.* Presented by S. L. Hinde, Esq., C.M.Z.S.,  
and Mrs. Hinde, March 17, 1904. From Tousu  
Karuri's Country.

1489 *a.* *Rallina canningi* (Blyth). Andaman Banded  
Crake.

*Hab.* Andaman Islands.

*a-c.* Presented by the Government of India, May 2,  
1904. See P.Z.S. 1904, ii. p. 129.

1541 *a.* *Balearica ceciliae* Chalmers Mitchell, Soudan  
Crowned Crane.

*Hab.* White Nile.

*a, b.* Presented by Lady William Cecil. July 18  
1904.

*c, f.* Deposited, Nov. 19, 1904. From Duern,  
White Nile.

#### REPTILES.

50 *a.* *Testudo sp. in.* Tortoise.

*Hab.* Africa.

*a.* Deposited, Aug. 29, 1904. From Kilimanjaro.

187 *a.* GENUS CNEMIDOPHORUS.

*Cnemidophorus ocellifer* Peters. Blue-spotted  
Lizard.

*Hab.* Brazil.

*a-h.* Deposited Sept. 2, 1904.

246 *a.* *Liasis fuscus* Peters. Yellow-bellied Snake.

*Hab.* Australia.

*a.* Deposited, Feb. 24, 1904.



*List of Donors and their Donations for the  
year 1904.*

- BATTENBERG, H.S.H., Prince Louis of. 2 Spotted Salamanders.
- BEDFORD, His Grace, The Duke of, K.G., (*President*).  
2 Turkestan Wapiti.
- 
- ADAMS, James, Esq. 1 Chacma Baboon.
- ADAMS, Major. 2 Barn Owls.
- ALLEN, Miss A. 1 Greater Sulphur Crested Cockatoo.
- ANDRAEA, Miss A. E. 1 Black-eared Marmoset.
- ANSON, Capt. A. H., R.N. 1 Chacma Baboon.
- ARMITAGE, Capt. C. H. 1 Sooty Mangabey.
- ARMITAGE, Richard, Esq. 1 Suricate.
- ARMSTRONG, J. Probyn, Esq. 2 White-crowned Mangabeys.
- ASHLEY, Mrs. 1 Vervet Monkey.
- AUDSLEY, A. E. MacAulay, Esq., F.Z.S. 1 Golden-backed Woodpecker. 2 Black-headed Orioles. 1 Golden Oriole. 2 Glossy Calornis. 2 Indian Rollers. 2 Occipital Blue Pies. 7 Black-Throated Weaver-birds. 1 Bengal Weaver-bird.
- AWDRY, Miss Ruth and Master Willie. 1 Tawny Owl.
- AXTEN, Edmund, Esq., F.Z.S. 1 Two-spotted Paradoxure.
- BAIRD, Sir Alexander, Bt., F.Z.S. 1 Calandra Lark, 1 Melodious Jay-Thrush.
- BAKER, Mrs. 7 Rufous Tinamous.
- BAKER, The Rev. Edgar J. 1 Ring-necked Parrakeet.
- BANKS, H., Esq. 1 Common Viper.
- BARKER, A. B. Raymond, Esq. 1 Zebra Waxbill.
- BARNARD, Capt. A. E. 2 Cheetahs, 1 Beisa Antelope.
- BARNARD, Lieut. C. D. V. Cary. 1 Royal Python, 1 African Brush-tailed Porcupine, 2 Spur-winged Geese, 1 Lobed Chameleon.
- BATEMAN, Miss Muriel. 1 Eupatorian Parrakeet.
- BEARD, Miss Marion M. E. L. 1 Red-Crested Cardinal.
- BEECH, E. W., Esq. 2 Sparrow-Hawks, 2 Long-eared Owls.



- BEGG, Mrs. 8 Waltzing Mice.  
 BENTLEY, The Rev. W. Holman. 1 Angolan Vulture.  
 BERCHTEN, Mr. E. 4 Rainbow Trout.  
 BERENS, Mrs. Aleck. 1 Green Monkey.  
 BERNAIS, G. E. Bon, Esq. 4 Common Vipers.  
 BERREYMAN, Mr. 1 Blue and Yellow Macaw.  
 BERTIE, Lady Caroline. 1 Bonnet Monkey, 1 Ring-necked Parrakeet.  
 BERTLING, Mr. A. (Head Keeper). 4 Wood Mice.  
 BEVINGTON, T. A. D., Esq. 1 Laughing Kingfisher.  
 BICKL, John, Esq. 1 Algerian Tortoise.  
 BIEBER, Egmont, Esq. 1 Matamata Terrapin.  
 BINNING, Lady. 1 Red-headed Weaver Bird.  
 BIRCHAM, Miss E. 4 Gold Pheasants.  
 BISHONDEN, Miss E. 5 Common Waxbills, 4 Orange-cheeked Waxbills, 2 Amaduvade Finches.  
 BISHOP, A. H., Esq. 2 Kestrels.  
 BISHOP, E. W., Esq. 1 Red Fox.  
 BLAIR, W. N., Esq. 1 European Pond Tortoise.  
 BOURKE, The Hon. Mrs. Algernon. 1 Black-eared Marmoset.  
 BOWDICH, Mr. 1 Eupatorian Parrakeet.  
 BRACK, H., Esq. 1 White-backed Piping Crow.  
 BRAMLEY, T., Esq. 1 Barn Owl.  
 BRAMWELL, Frank, Esq. 1 Squirrel Monkey.  
 BRAND, Miss Alice. 2 Common Chameleons.  
 BRIDGMAN, Mr. 1 Magpie.  
 BRIGGS, Miss Norah F. L. 1 Maugé's Dasyure.  
 BRYDON, W. W., Esq. 1 Spotted Salamander.  
 BRYMER, Walter H., Esq. 1 Bristly Ground Squirrel.  
 BULL, Miss M. 1 Ringed-necked Parrakeet.  
 BURCHELL, W., Esq. 1 Brush-tailed Rock-kangaroo.  
 BURNETT, Capt. E. W. 1 Burmese Ferret-Badger.  
 BURY, G. W., Esq. 1 Beatrix Antelope.  
 CAMERON, W. H., Esq. 1 Vervet Monkey.  
 CAMPBELL, J. A. L., Esq. 1 Campbell's Monkey.  
 CANDY, Lieut. A. C., R.N. 2 Greater White-crested Cockatoos.  
 CARTER, Frank L., Esq., M.R.C.V.S. 1 Greater Sulphur-crested Cockatoo.  
 CATTELL, A. T. G., Esq. 2 Palm Squirrels.  
 CECIL, The Lady William. 2 Crowned Cranes.  
 CHAPLIN, H. A., Esq. 2 Black Kites.



- CHAPLIN, H. P., Esq. 1 Leopard  
 CHILTON, The Rev. G. 1 Meerkat.  
 CHRISTOPHERS, Mrs. St. Clair. 1 Blue-fronted Amazon,  
 1 Princess of Wales's Parrakeet.  
 CHRISTY, Mr. 3 Turtle Doves.  
 CLOSE, Mrs. Farnham. 4 Hybrid Turtle Doves.  
 COCKS, A. H., Esq., F.Z.S. 1 Common Kestrel.  
 COCKS, Charles, Esq. 1 Common Toad.  
 COLLETT, Mrs. 1 Blue-fronted Amazon.  
 COLLINS, Arthur, Esq. 1 Smooth-headed Capuchin,  
 2 Brush-tailed Wallabies.  
 COMBER, Mrs. 3 Black-eared Marmosets.  
 COOK, Mrs. 1 Rhesus Monkey.  
 CORK, Mrs. 1 Collared Peccary.  
 COURAGE, O. N., Esq. 4 Shoveller Ducks.  
 COX, Major P.Z., C.I.E., F.Z.S. 2 Beatrix Antelopes.  
 COX, Mrs. 2 Lobed Chameleons.  
 CRAWLEY, A. W. V., Esq. 2 Two-spotted Paradoxures.  
 DANCKWERTS, W. O., Esq., K.C., F.Z.S. 1 Common  
 Marmoset.  
 DANNEY, Miss Florence E. 1 Raven.  
 DANVERS, R. C., Esq. 1 Vervet Monkey.  
 D'ARCY, Mrs. De Burgh. 1 Algerian Tortoise.  
 DARLING, J. ffolliott, Esq., F.Z.S. 2 Hooded Crows.  
 DASHWOOD, C. E., Esq. 1 Serval.  
 DAVIES, Dr. L. Wynne. 3 Blood-breasted Pigeons.  
 DAVIS, F. M., Esq. 4 Moorish Geckos, 5 European  
 Tree Frogs, 1 Common Toad.  
 DAWSON, Arthur, Esq., R.N. 1 Maccarthy's Ichneumon.  
 DAYRELL, Mr. 1 Exanthematic Monitor.  
 DEANE, Lt.-Col., H. A., C.S.I. 2 Markhoors, 1 Punjaub  
 Wild Sheep.  
 DE GREY, The Countess. 1 Patas Monkey, 1 Moustache  
 Monkey  
 DELLER, Edward, Esq. 1 Vervet Monkey.  
 DENDLE, G., Esq. 1 White-eared Bulbul.  
 DENISON, C. A., Esq. 1 Ruddy Ichneumon.  
 DENTON, Capt., Sir George, K.C.M.G., F.Z.S. 1 Sing Sing  
 Waterbuck, 1 Gambian Ourebi, 1 Nagor Antelope,  
 1 Serval, 1 Ostrich, 2 Levillant's Parrots, 1 Marabout  
 Stork.  
 DE ROTHSCHILD, Leopold, Esq., C.V.O., F.Z.S. 1 Japanese  
 Deer.



- DE WINTON, W. E., Esq., F.Z.S. 2 Yellow-bellied  
Liothrix.
- DONNE, T. E., Esq. 2 Mountain Ka-Kas.
- DREWITT, F. D., Esq., M.A., M.D., F.Z.S. 2 Painted  
Frogs, 3 Freshwater Crabs.
- DUCIE, The Earl of, F.R.S., F.Z.S. 2 Hybrid Pheasants
- EAGER, K., Esq., 1 Green Monkey.
- EDEN, The Rev. H. 1 Raccoon.
- EDEN, W. G., Esq., R.N. 1 Common Chameleon.
- EDGE, S. F., Esq. 1 Rough-eyed Cayman.
- EDWARDS, G. F., Esq., M.D. 1 Bonnet Monkey.
- EDWARDS, Stanley, Esq., F.Z.S. 2 Cormorants.
- EVANS, Leonard A., Esq. 1 Tawny Owl.
- EYKYN, T. P., Esq. 1 Lesser White-nosed Monkey.
- FELCE, D. H., Esq. 1 Pigmy Hog.
- FELLOWES, C. A., Esq. 3 Common Kestrels, 1 Cormorant.
- FINN, Frank, Esq., F.Z.S. 1 Cardinal Grosbeak,  
1 Blackbird, 2 Goldfinches, 2 Lesser Redpolls,  
1 Yellow Hammer, 1 Chaffinch. 2 Ortolan  
Buntings.
- FIRMIN, Cecil H., Esq., 1 Two-spotted Paradoxure.
- FISHER, J., Esq. 1 Vervet Monkey.
- FLORIA, Achille, Esq. 1 Common Seal, 4 Cormorants.
- FORSHAW, Miss Hester. 1 Green Monkey, 2 Bare-eyed  
Cockatoos.
- FOX, Master Cecil. 1 Barn Owl.
- FOX, Miss Elsie. 2 Grey Ichneumons.
- FRASER, W. Esq. 1 Tawny Owl.
- FRY, Mrs. E. J. 1 Green Monkey.
- GILBERT, W. A. Esq. 1 Macaque Monkey, 1 Pig-tailed  
Monkey.
- GILLESPIE, Robert A. Esq. 1 Yellow-collared Parrakeet.
- GLADSTONE, H. S. Esq., M.A., F.Z.S. 5 Hybrid Silver  
Pheasants, 2 Hybrid Fowls.
- GLAISHER, D. Esq. 1 Greater Sulphur-crested Cockatoo.
- GLOCKLER, F. Esq. 1 Bonnet Monkey.
- GODFREY, J. M. Esq. 1 Vervet Monkey.
- GODFREY, W. M. Esq. 1 Allen's Porphyrio.
- GOWER, Mrs. 1 Lesser White-nosed Monkey.
- GREEN, Joseph F., Esq., F.Z.S. 1 Common Snake.
- GREY, W. H. Esq. 1 Leopard.
- GRIFFITH, G. R. Esq. 1 Anubis Baboon.
- GROSVENOR, The Lord Arthur. 1 Raven.



- GUNN, Mr. T. E. 1 Short-eared Owl.
- GUTHRIE, Adam White, Esq., F.Z.S. 20 Millipedes, 22 Scorpions.
- GUTHRIE, Mrs. A. W. 1 Vulturine Eagle.
- GWYNNE-HOWELL, H., Esq., R.F.A. 1 Common Badger.
- HACKETT, Mrs. 1 Leadbeater's Cockatoo.
- HAINES, F. H., Esq. 2 Herring Gulls.
- HAINES, The Rev. F. W. 1 Tessellated Snake, 1 Dark-Green Snake, 4 Green Lizards, 1 Wall Lizard.
- HALES, The Rev. J. T. 1 Meerkat.
- HALL, C. R., Esq. 2 Nisnas Monkeys.
- HAMLIN, Mr. J. D. 1 Javan Peafowl.
- HAMMET, Mr. E. 1 Greater Sulphur-crested Cockatoo.
- HAMP, Mrs. 1 Macaque Monkey, 1 Egyptian Jerboa.
- HANNAY, D. F., Esq. 1 Vervet Monkey.
- HARDING, W. A. H., Esq., F.Z.S. 3 Æsculapian Snakes, 2 Leopardine Snakes, 1 Lacertine Snake, 2 Dahl's Snakes, 1 Indian Python.
- HARDY, Miss Dorothy. 1 Raven
- HARDY, Lawrence, Esq., M.P., F.Z.S. 1 Hybrid Pheasant
- HARRIS, Miss. Edith. 1 Smooth-headed Capuchin.
- HARRIS, G. B., Esq. 1 Grivet Monkey.
- HARRISON, H. F., Esq. 1 Barn Owl.
- HARROGATE, The Corporation of. 2 Golden Eagles.
- HARROLD, Miss. 1 Greater Sulphur-crested Cockatoo.
- HASTINGS, G., Esq. 1 Cocteau's Skink.
- HAWES, E. F., Esq. 1 Common Snake.
- HEARNshaw, R. Fletcher, Esq., F.Z.S. 1 Bullfinch.
- HEDGES, Miss Ida. 1 Egyptian Jerboa.
- HIGGIN-BIRKET, M., Esq. 1 Chacma Baboon.
- HILLSTEAD, G. W., Esq. 1 Black-headed Gull.
- HINDE, S. L., Esq., C.M.Z.S. and Mrs. Hinde. 4 Dusky Francolins. 2 Shuett's Francolins. 2 Jackson's Francolins.
- HINDLIP, Lady. 3 Barn Owls.
- HODSON, E. Steer, Esq. 1 Hyacinthine Macaw. 1 Red and Yellow Macaw.
- HOLFORD, H. O., Esq. 1 Jay.
- HOLLAND, P. Estcourt, Esq. 1 Common Raccoon.
- HOLMAN, Keith, Esq. 1 Common Fox.
- HOLMES, Reginald, Esq. 1 Black Lemur. 1 Ring-tailed Lemur.



- HOLT, Eardley-Wilmot B., Esq., F.Z.S. 2 Ring-necked Pheasants.
- HOMFRAY, Miss Ethel. 1 Green Monkey.
- HOOKE, The Rev. S. 1 Green Monkey.
- HORSFALL, H. L., Esq. 2 Coypus.
- HOUGH, Miss Evelyn A. 1 Indian Mongoose.
- HOWARD, Miss Nancy. 1 Alligator.
- HUGHES, Mrs. 1 Vervet Monkey.
- HUGHES, Mr. W. 1 Mona Monkey.
- HUNT, Walter S., Esq. 1 Firefly.
- HUSSY, Miss A. 2 Golden Crowned Conures.
- ILLMAN, Richard, Esq. 1 Martinique Gallinule.
- INDIA, H.M. Government of. 2 Nutmeg Fruit Pigeons, 2 Nicobar Imperial Fruit Pigeons, 4 Andaman Teal, 3 Andaman Banded Crakes, 6 Great-billed Andaman Parrakeets.
- ION, Mr. H. 1 Spotted Mongoose.
- IRVINE, Major G. B., I.M.S. 1 Greater Koodoo.
- JACKSON, Lt.-Col. Louis, R.E., F.Z.S. 2 Crowned Cranes.
- JAGGAR, Miss M. E. 1 Eupatorian Parrakeet.
- JAGOE, Henry E., Esq. 1 Blacked-faced Kangaroo.
- JAMES, C. A., Esq. 1 Banded Ichneumon.
- JAMES, Mr. L. 1 Levillant's Cynictis.
- JAOUICH, J., Esq. 1 Common Quail.
- JARDINE, Miss. 1 Crowned Crane.
- JENKINS, H. C., Esq. 1 Vervet Monkey, 2 Black-headed Lemurs.
- JOHNES, Mrs. 1 Black-winged Peafowl.
- JOHNSON, Dr. G. Lindsay, F.Z.S. 1 Tuatera Lizard.
- JOHNSTONE, Mrs. 1 Nutmeg Fruit Pigeon, 2 Bronze-winged Pigeons, 2 Blue-tailed Fruit Pigeons, 1 Philippine Hornbill, 1 Scaly-breasted Lorikeet, 1 Catbird, 1 Golden-throated Barbet.
- JONES, Sir Alfred, K.C.M.G. 1 Leopard.
- JUDKINS, Mrs. F. 3 Black Rats.
- KANTHACK, Miss E. V. 1 Yellow-winged Parrakeet, 1 Tui Parrakeet.
- KENNEDY, G. G., Esq. 1 Hairy-footed Jerboa.
- KERR, Andres, Esq. 3 Chinchillas.
- KINLOCK, Maj.-Genl. A.A.A., C.B., F.Z.S. 1 Goshawk.
- KIRKALDY, H. W., Esq. 1 Yellow Baboon.
- KIRKBY, H. W., Esq. 1 Two-spotted Paradoxure, 1 Exanthematic Monitor.



- KYNNEERSLEY, T. F., Esq. 2 Roseate Cockatoos.  
 LACHENAL, F., Esq. 1 Red and Yellow Macaw.  
 LAFONE, A. W., Esq. 1 Spotted Eagle Owl.  
 LAING, Mrs. 1 Greater Sulphur-crested Cockatoo.  
 LAKIN, Miss Violet M. 1 Japanese Bear.  
 LAWRENCE, Miss K. 1 Bare-eyed Cockatoo.  
 LEA, Miss Victoria. 1 Chipping Squirrel.  
 LEA, Mr. John. 1 Quebec Marmot.  
 LEMBERG, J., Esq. 3 Spur-winged Geese.  
 LEON, Wilfred, Esq. 1 Hyacinthine Macaw.  
 LESTER, L., Esq. 1 Pousargue's Guenon.  
 LETHBRIDGE, A., Esq. 1 Hairy-footed Jerboa.  
 LIEBIG EXTRACT OF MEAT Co., The. 1 Capybara.  
 LINDSAY, The Hon. Mrs. 1 Green Monkey.  
 LISTER, Charles E., Esq. 2 Yellow-winged Parrakeets,  
 1 Senegal Parrot.  
 LODER, Sir Edmund, Bt., F.Z.S. 1 Prairie Marmot, 1  
 White-backed Piping Crow.  
 LONDESBOROUGH, The Countess of. 1 Macaque Monkey.  
 LYELL, Miss. 2 Herring Gulls.  
 LYON, Mrs. L. B. 2 Common Marmosets.  
 McEVOY, Mrs. E. E. 2 Grey-breasted Parrakeets.  
 MACFARLANE, Dr. 1 African Civet Cat, 1 Bosman's  
 Potto, 2 Crowned Cranes, 1 White-throated Monitor.  
 MACKENZIE, D. F., Esq., F.Z.S. 1 Green Lizard, 1  
 Common Kestrel, 1 Common Snake.  
 MACKINTOSH, Capt. J. B., R.G.A., F.Z.S. 1 Snow  
 Leopard.  
 McMICHAEL, Miss Hope. 1 Collie's Squirrel.  
 McMILLAN, Mrs. W. N., F.Z.S. 1 Rüppell's Colobus.  
 McMILLAN, Barry, Esq. 1 Rufescent Snake.  
 MAHON, Brig.-Genl. Brian Thomas, C.B., D.S.O., F.Z.S.  
 2 Cheetahs.  
 MALINE, Mrs. L. A. 1 Green Monkey.  
 MALING, E. A., Esq. 1 Rough-legged Buzzard.  
 MANN, Miss. 3 Reeve's Pheasants.  
 MANN, Mr. M. 1 Macaque Monkey.  
 MARKS, V. Stacey, Esq. 1 Macaque Monkey.  
 MARSH, Mr. E. W. 1 Vervet Monkey.  
 MATHIESON, J., Esq. 1 Common Buzzard.  
 MAUD, Major W. de S. 2 South Albemarle Tortoises.  
 MEAR, H., Esq. 1 Common Snake.  
 MELTZER, Algernon, Esq. 1 Rhesus Monkey.



- MENHINICK, Mrs. 1 Patas Monkey.  
 MENZIES, Mrs. Robert. 1 West African Love Bird.  
 MILNER, Mr. 1<sup>st</sup> Bonnet Monkey.  
 MORRIS, Sir Daniel, K.C.M.G., C.M.Z.S. 2 Tuberculated Iguanas.  
 MOXHAM, J., Esq., 1 Toque Monkey.  
 MULLER, Mrs. W. J. 1 Common Fox.  
 NEALE, A. E., Esq., M.D. 1 Abyssinian Fruit Pigeon.  
 NELSON, Lieut. H., R.A. 1 African Civet Cat.  
 NETZER, O., Esq. 1 Egyptian Vulture.  
 NEWBOLD, Miss. 1 Western Slender-billed Cockatoo.  
 NEWDEGATE, F. A. Newdigate-, Esq., M.P., F.Z.S. 2 Springboks.  
 NEWMAN, Miss L. 1 Lesser Sulphur-crested Cockatoo.  
 NEWMARCH, Col. L. S. 4 Chaplain Crows.  
 NEWNHAM, Major A. T. H., F.Z.S. 1 Chinese Quail.  
 NICHOLAS, T. H., Esq. 2 Ravens.  
 OGILVIE, George, Esq. 1 Raven.  
 OLLIVANT, Capt. J. S. 1 Suricate.  
 OSBORNE, A. Willoughby, Esq. 1 Jardine's Parrot.  
 PACKE, Vere, Esq. 2 Kelp Geese.  
 PALMER, Master Kenneth R. 1 Algerian Skink.  
 PANTIN, Charles W., Esq., F.Z.S. 1 Rufous-necked Weaver Bird.  
 PARKES, Herbert A., Esq. 1 Vulpine Phalanger.  
 PARKINSON, J. E., Esq. 1 Brown-throated Conure.  
 PARTRIDGE, William, Esq. 1 Macaque Monkey.  
 PAYNE, Mrs. 1 Greater Sulphur-crested Cockatoo.  
 PEARSE, Major Albert, R.A.M.C., F.Z.S. 2 Sooty Mangabeys, 2 Young Leopards.  
 PEGLER, Stephen, Esq. 1 Slowworm.  
 PENROSE, F., Esq. 2 Natterjack Toads.  
 PICARD, Hugh K., Esq. 1 Amaduvade Finch, 1 Crimson-winged Waxbill, 1 Banded Grass Finch, 1 Fire-tailed Finch.  
 PLATT, Mrs. 1 Great-billed Andaman Parrakeet.  
 POCOCK, R. I., Esq., F.Z.S. (*Superintendent*). 10 Bank Voles, 1 Common Shrew, 3 Wood Mice.  
 PRITCHARD, Mr. S. D. 1 White-collared Mangabey.  
 PRITCHARD, Miss Marion. 1 Slender-billed Cockatoo.  
 PUDNEY, F., Esq. 1 Vervet Monkey.  
 PUTZ, Mr. A. E. 1 Campbell's Monkey.  
 RADMORE, Miss A. M. 1 Toque Monkey.



- RAMSAY, George, Esq. 1 Patas Monkey.  
 RAVENSCROFT, G. W., Esq. 2 Arabian Baboons.  
 RAYNSFORD, E. M. H., Esq. 1 Green Monkey.  
 REANEY, Cecil T., Esq., 1 Royal Python.  
 RICHARDSON, Lady Constance Stewart. 1 Ruffed Lemur.  
 RIDLEY, W. A., Esq. 1 Leadbeater's Cockatoo.  
 RIDLEY, Miss Mary L. 1 Common Coot.  
 RINGER, Frederick, Esq. 1 Hairy-eared Bear.  
 ROBIN, Capt. E. 1 Common Paradoxure.  
 RODGER, His Excellency Sir John P., K.C.M.G., F.Z.S.,  
 1 Bay Duiker, 1 Crested Porcupine.  
 RODON, Major George S., F.Z.S. 1 Goral Antelope.  
 ROGERS, Miss. 1 Ring-tailed Phalanger.  
 ROLLESTON, Col. Vilett, F.Z.S. 2 Carrion Crows.  
 ROSE, Mrs. 1 Lesser Black-backed Gull.  
 ROSS, Mrs. Alex. Gordon. 2 Greyheaded Love Birds.  
 ROTHSCHILD, The Hon. Walter, M.P., D.Sc., F.Z.S.,  
 4 Common Pheasants.  
 RUSHBROOKE, Col. 1 Black-backed Jackal.  
 RYDER, Lady Constance. 1 Levillant's Cynictis.  
 ST. MAUR, Mrs. 1 Hyacinthine Macaw.  
 SANDERS, W. A., Esq. 1 Rhesus Monkey.  
 SAUNDERS, W. Radcliffe, Esq., F.Z.S. 1 Otter, 2 Jays.  
 SCHAIBLE, Mr. Carl. 1 Common Buzzard, 2 Goshawks.  
 SHEPHERD, Col. 1 Rough-eyed Cayman.  
 SHORT, Miss B. 1 Yellowish Capuchin.  
 SHORTER, Mrs. Clement. 1 Undulated Grass Parrakeet  
 SLOCOMBE, Mrs. 1 Greater Sulphur-crested Cockatoo.  
 SMITH, Mrs. 1 Macaque Monkey.  
 SMITH, D. Seth-, Esq., F.Z.S. 2 Obsolete Tinamous,  
 2 Ring-tailed Pigeons.  
 SMYTH, Joseph V., Esq. 1 Vervet Monkey.  
 SMYTHE, Lt.-Col. H. H., F.Z.S., 2 Cape Crowned Cranes.  
 SOUTHGATE, T. B. Esq, 1 Dusky Parrot, 1 Red-vented  
 Parrot.  
 SPIERS, Mrs. 1 Mozambique Monkey.  
 STICKNEY, H. B., Esq. 1 White-collared Mangabey.  
 STIRLING, Prof. E. C., C.M.G., F.R.S., C.M.Z.S. 1 Dor-  
 mouse Phalanger.  
 STOKOE, C. R., Esq. 1 Lar Gibbon.  
 STOREY, Charles, Esq. 2 Blue and Yellow Macaws.  
 STOREY, Dr. Percy A. 1 Common Fox.  
 STORMONT, Miss. 1 Green Monkey.



- STORMONT, Percy H., Esq. 1 Bosman's Potto.
- SUMMERS, Mrs. Millicent, 1 Shining Weaver Bird, 1 Orange Weaver Bird, 1 Red-headed Weaver Bird, 4 Amaduvade Finches, 1 Banded Grass-Finch, 1 Fire-tailed Finch, 3 African Silverbills, 1 Common Waxbill.
- SUTTON, F. Colin, Esq. 1 Common Snake.
- SYKES, Frank, Esq. 3 Merlins.
- TANNAHILL, Miss Beatrice D. 1 Suricate.
- TAYLOR, Mrs. 1 Campbell's Monkey.
- TAYLOR, B. H. W., Esq. 2 Patas Monkeys.
- TAYLOR, John T., Esq., F.Z.S. 1 Black-bellied Weaver Bird.
- THOMAS, Miss Ethel Holland. 1 Common Peafowl.
- THOMSON, Miss. 1 Ring-necked Parrakeet.
- THOMSON, Mr. Arthur (Assistant Superintendent).  
1 Wandering Tree Pie.
- THORNTON, C. F., Esq. 1 Chacma Baboon.
- TIDSWELL, Miss Ella. 12 Spinose Lizards.
- TOMKINS, Stanley C., Esq., C.M.G., C.M.Z.S. 2 Uganda Chimpanzees.
- TRIMMER, Mrs. 1 Crowned Horned Lizard.
- TUCKETT, P. Debell, Esq. 1 Water Viper, 4 Mocassin Snakes, 1 Seven-banded Snake.
- TURNER, J. Turner, Esq. 1 European Flamingo.
- TUSCHER, Mr. O. 1 Jay.
- USBORNE, Mr. A. J. 1 Egyptian Jerboa.
- VENNING, Miss. 2 Yellow-bellied Liiothrix.
- VILIESID, S. J., Esq. 1 Squirrel Monkey.
- WARD, Miss M. 1 Two-spotted Paradoxure.
- WARD, Rowland, Esq., F.Z.S. 1 Raven.
- WATKINS, J. W. A., Esq. 1 Tarantula Spider.
- WATTS, Mrs. 1 Ring-necked Parrakeet.
- WALWYN, H. W. Shephard, Esq., F.Z.S. 2 Long-eared Owls.
- WELSHMAN, Mrs. 1 Senegal Touracou.
- WESTACOTT, John J., Esq. 1 African Brush-tailed Porcupine.
- WESTCOTT, W. G., Esq. 1 Great Eagle Owl.
- WESTRAY, Miss M. 1 Spotted Mongoose.
- WHATELEY, L., Esq. 1 Tawny Owl.
- WHITE, Mr. Harry. 3 Wild Ducks.
- WHITE, Miss Hilda. 1 Campbell's Monkey.
- WHITESIDE, Miss H. F. 1 Mole Cricket.



- WIENER, Augustus F., Esq., F.Z.S. 1 Red-crested Cardinal, 2 Red-beaked Weaver-birds, 2 Striated Finches, 2 Black-headed Finches, 2 Cut-throat Finches, 2 Amaduvade Finches.
- WILLIAMS, E., Esq. 1 Vervet Monkey.
- WILLIAMS, Howard, Esq. 1 Pin-tailed Whydah-bird.
- WILSON, A. P., Esq. 4 Japanese Waltzing Mice,
- WILSON, Mrs. Fenwick. 1 Spotted Mongoose.
- WINGRAVE, A. Willing, Esq. 1 Bronze-wing Pigeon.
- WITHAM, Philip, Esq., F.Z.S. 1 Cormorant.
- WOODGATE, H. T., Esq. 1 Madras Entellus Monkey.
- WOODHOUSE, Mrs. 1 Rhesus Monkey.
- WORSSAM, Miss. 1 Black-eared Marmoset.
- WORTHINGTON, C. R., Esq. 1 Angolan Vulture.
- WRIGHT, Mrs. 1 Laughing Kingfisher.
- WRIGLEY, Mrs. Frank. 1 Rhesus Monkey.
- YATE, Col. Charles E. 3 Himalayan Mouse Hares.
- YEARSLEY, P. M., Esq., F.Z.S. 3 Common Hedgehogs, 4 Crested Newts, 12 Cray-fish.

### STATE OF THE FINANCES.

The Report of the Auditors of the Accounts for 1904 is issued to Fellows, bound at the end of this Report. Acting on the advice of Mr. W. B. Keen, Chartered Accountant, the Professional Auditor of the Society, the Committee of Auditors have issued their Report in a different form, replacing the old statement of Assets and Liabilities by a properly prepared Balance Sheet, and the old statement of Receipts and Payments by an Income and Expenditure Account. It may be convenient to Fellows to explain this year in some detail the differences between the old and new methods.

### BALANCE SHEET.

*Assets.* The figures are closely similar to those given last year with the notable exception that the capital of the Davis Bequest is not included. By the terms of the Bequest it must be held as a permanent fund, and so



cannot be included in the Assets unless a corresponding amount were entered as a Liability. A slight reduction has been made in the estimated value of the Animals in the Menagerie, due chiefly to the death of the Rhinoceros, The item respecting "Drainage at the Refreshment Rooms" will diminish annually as it is paid off by Messrs. Spiers and Pond.

*Liabilities.* The first two items represent December Bills not paid until January, in accordance with the routine system of monthly payments. With regard to the overdraft at the Bankers, Fellows may be reminded that it used to be the custom to borrow fixed amounts paying interest on them independently of the state of the cash balance. In the course of 1903, the Council were able to make a new arrangement with the Bankers, according to which they were permitted to overdraw on the current account up to £10,000, paying interest only on the overdraft. The overdraft on December 31 was paid off early in January when the bulk of the subscriptions of Fellows was paid. It will appear again until the large receipts from the Gardens begin to come in the summer months. According to the scheme of work arranged for, it will probably reach between £7,000 and £8,000 at the end of the current year. The appearance of the "Composition Fund" as a liability is a technical matter upon which the Council has followed the advice of the professional Auditor. Hitherto Composition Fees were treated as income.

The "Balance at January 1st, 1904," is the excess of assets over liabilities on December 31st, 1903, according to a similar balance sheet prepared by the auditor for the year 1903, but not hitherto published. The last amount, £50,738 12s. 7d., represents the excess of assets over liabilities on December 31, 1904, and will be carried to the balance sheet of 1905. It may be pointed out to Fellows that as the Society is in the position of an annual tenant at the Gardens at Regent's Park, the value of the buildings cannot be set down as an asset legally, although for practical purposes it is a working asset the value of which was very greatly increased by the new works and repairs and other Extraordinary Expenditure of 1904.



## INCOME AND EXPENDITURE ACCOUNT.

The statement as drawn up by the auditors differs in two ways from the statements hitherto presented to Fellows. In the first place, the receipts side represents actual income belonging to the year, and not simply all the money received in the year. Next, there have been deducted from the receipts certain sums also deducted from the expenditure, as for instance, in the case of the Garden Guide where the actual receipts were £1,032 7s. 4d., while only the net receipts have been reckoned as income. For the convenience of Fellows a statement of accounts on the old receipts and payments basis is printed this year, together with tables giving the reconciliation of it with the Auditors' Accounts.

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*Comparison of Receipts in 1904 with 1903.*

	1904.			1903.			Comparison.																								
	£	s.	d.	£	s.	d.	£	s.	d.																						
Admissions to Gardens .....	17,039	15	4	15,911	12	2	+	1,128	3 2																						
Riding Receipts .....	502	7	7	389	7	9	+	112	19 10																						
Garden Sales .....	597	12	9	668	5	0	-	70	12 3																						
Garden Guides and Picture Postcards...	1,069	18	2	957	13	4	+	112	4 10																						
Rent for Refreshment Rooms .....	1,000	0	0	1,009	0	0	-	9	0 0																						
Rent for Offices, Hanover Square .....	200	0	0	200	6	0	-	0	6 0																						
Admission Fees:—																															
Past .....	165	0	0	120	0	0	+	45	0 0																						
Present .....	935	0	0	820	0	0	+	115	0 0																						
Fellowship Subscriptions:—																															
Past .....	39	0	0	33	0	0	+	6	0 0																						
Present .....	6,873	0	0	6,685	3	0	+	190	17 0																						
Future .....	183	0	0	180	0	0	+	3	0 0																						
Composition Fees .....	1,200	0	0	1,020	0	0	+	180	0 0																						
Publications Subscriptions .....	515	11	0	519	15	0	-	4	4 0																						
Publications Sales .....	200	11	6	221	18	4	-	21	6 10																						
“Zoological Record” Subscriptions ...	239	10	0	239	1	0	+	0	9 0																						
“Zoological Record” Sales .....	236	4	4	240	1	3	-	3	16 11																						
Dividends (Davis Fund) .....	72	8	9	71	11	4	+	0	17 5																						
Miscellaneous.....	469	2	5	771	2	11	-	302	0 6																						
	31,538	1	10	30,057	17	1	+	1,480	4 9																						
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Total Receipts in 1904 .....</td> <td style="text-align: right;">£31,538</td> <td style="text-align: right;">1</td> <td style="text-align: right;">10</td> </tr> <tr> <td>Total Payments in 1904 .....</td> <td style="text-align: right;">33,545</td> <td style="text-align: right;">4</td> <td style="text-align: right;">10</td> </tr> <tr> <td style="border-top: 1px solid black;">Payments over Receipts .....</td> <td style="text-align: right; border-top: 1px solid black;">2,007</td> <td style="text-align: right; border-top: 1px solid black;">3</td> <td style="text-align: right; border-top: 1px solid black;">0</td> </tr> </table>										Total Receipts in 1904 .....	£31,538	1	10	Total Payments in 1904 .....	33,545	4	10	Payments over Receipts .....	2,007	3	0										
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*Comparison of Payments in 1904 with 1903.*

	1904.			1903.			Comparison.			
	£	s.	d.	£	s.	d.	£	s.	d.	
<b>GARDEN ESTABLISHMENT—</b>										
Rent, Rates, Taxes, etc. ....	1,488	18	0	1,534	3	11	—	45	5	11
Salaries, Wages, etc. ....	4,404	12	2	4,413	2	5	—	8	10	3
Pensions .....	260	0	0	378	12	1	—	118	12	1
Provisions .....	3,506	10	2	3,496	3	9	+	10	6	5
Menagerie Expenses .....	1,811	5	9	1,617	6	0	+	193	19	9
Works, etc.....Ordinary	4,839	11	10	3,810	12	8	+	1,028	19	2
Do. ....Extraordinary	5,690	11	2	2,340	9	1	+	3,350	2	1
Gardeners' Expenses .....	1,150	11	9	1,170	12	9	—	20	1	0
Advertisements .....	403	0	8	359	7	9	+	43	12	11
Band Expenses .....	161	3	0	171	6	6	—	10	3	6
House and Office Expenses .....	315	9	10	385	2	11	—	69	13	1
Cost and Carriage of Animals .....	1,149	6	4	657	10	5	+	491	15	11
Prosectorium Expenses .....	533	3	2	534	9	9	—	1	6	7
<b>HANOVER SQUARE ESTABLISHMENT—</b>										
Rates, Taxes, Insurance .....	324	0	9	385	11	2	—	61	10	5
Salaries and Wages .....	1,432	17	10	1,432	2	3	+	0	15	7
Pensions .....	752	0	0	652	10	0	+	99	10	0
Works and Repairs .....	123	1	8	731	11	3	—	608	9	7
House and Office Expenses .....	745	5	1	780	7	11	—	35	2	10
Stationery and Printing (Miscellaneous)	433	5	0	435	0	1	—	1	15	1
Library Expenses .....	737	11	1	841	15	9	—	104	4	8
Cost of Publications .....	1,653	9	11	2,314	19	8	—	661	9	9
Cost of Garden Guide and Picture Post-cards.....	634	13	8	548	3	4	+	86	10	4
Cost of "Zoological Record" .....	775	19	11	649	0	5	+	126	19	6
Expenditure of Davis Fund.....	72	8	9	71	11	4	+	0	17	5
Miscellaneous .....	146	7	4	431	8	0	—	285	0	8
	33,545	4	10	30,143	1	2	+	3,402	3	8
Ordinary Payments .....	27,854	13	8	26,700	3	7	+	1,154	10	1
Extraordinary do. ....	5,690	11	2	3,442	17	7	+	2,247	13	7
	33,545	4	10	30,143	1	2	+	3,402	3	8
<i>Contra.</i>							<i>Cr.</i>			
							£	s.	d.	
By Overdraft brought from December 31, 1903.....							2,844	10	9	
,, By Payments made in 1904 .....							33,545	4	10	
							36,389	15	7	



*Reconciliation of Total Income as per Income and Expenditure Account  
with Total Cash Received.*

	£	s.	d.	£	s.	d.
<i>Total as per Income and Expenditure Account</i> .....				29,322	7	2
<i>Add Sundry Receipts deducted from Expense Accounts:—</i>						
Works Account, Repayment by Messrs. Spiers and Pond.....	10	0	0			
Head-Gardener's Wages, Repayment by Crown Estate .....	75	0	0			
H. & O. Office, Received from Tenants for Cleaning Salaries, Gardens, Received from Messrs. Spiers and Pond for Timekeeper .....	27	6	6			
Postcards Expenses. Sale of Advertisements .....	10	17	6			
Cost and Carriage of Animals, Repayment of Expenses .....	7	7	0			
Returned Subscriptions .....	0	10	7			
Garden Guide Expenses, Sale of Advertisements...	28	13	0			
Band Expenses, Sale of Advertisements on Pro- grammes .....	51	16	5			
Subscriptions and Sales of Publications .....	55	1	0			
Ditto ditto Zoological Record .....	723	7	9			
Cost of Garden Guide deducted from Sales .....	482	17	4			
	504	9	7			
				1,977	6	8
Excess of Composition Fees received over amount brought from Fund .....				128	0	0
Repayments on Drainage Account as per Balance Sheet .....				44	0	0
Subscriptions Received in Advance as per Balance Sheet .....				199	1	0
Received during year in payment of Debts due to Society at 31st December, 1903, as per Balance Sheet at that date .....				692	0	11
Davis Fund Dividend .....				72	8	9
				32,435	4	6
<i>Less</i> Subscription received in 1903 on Account of 1904, as per Balance Sheet at 31st December, 1903 ...	191	11	0			
Debts due to Society at 31st December, 1904, as per Balance Sheet .....	681	18	8			
Admissions to Gardens on 31st December, 1904, not paid in till 1905 .....	23	13	0			
				897	2	8
<i>Total Cash Received</i> .....				31,538	1	10



*Reconciliation of total Expenditure as per Income and Expenditure Account with total Cash paid.*

	£	s.	d.
<i>Total as per Income and Expenditure Account</i> .....	29,907	16	10
<i>Add</i> Cash paid during year on account of 1903 as per Balance Sheet at 31st December, 1903, "Sundry Creditors" .....	2,907	10	7
Books bought during the year added to value of Library on Balance Sheet... ..	314	0	0
Sundry Receipts deducted from Expense Account as per Reconciliation of Income with Cash Received.....	1,977	6	8
Davis Fund Expenditure .....	72	8	9
	35,179	2	10
<i>Less</i> Amounts included in Expenditure of the year not yet paid on 31st December, 1904, as per Balance Sheet at that date "Sundry Creditors" .....	1,633	18	0
<i>Total Cash Paid</i> .....	33,545	4	10

CONCLUSION.

The Council think that they may congratulate the Fellows on the prosperous condition of the Society. Although very much still remains to be done at the Gardens they believe that the arrangements for the animals and for the public have been greatly improved. The number of Fellows has increased, the income is larger and exceeds the ordinary expenditure by about £4,000. They believe that the continuance of a vigorous policy of improvement combined with a careful scrutiny of expenditure will lead to still better results.

The Council wish to acknowledge the assistance they have received during the past year from the Committee of Publication, upon which are devolved, in accordance with the By-Laws, the arrangement and supervision of the Society's Scientific Publications.

The Council have finally to ask you to thank those Fellows of the Society who have audited the Accounts for the past year.

Signed (for the Council),

P. CHALMERS MITCHELL,

*Secretary.*

3 Hanover Square, W., April 6, 1905.



REPORT  
OF THE  
AUDITORS OF THE ACCOUNTS  
OF THE  
ZOOLOGICAL SOCIETY  
OF LONDON.

APPOINTED JANUARY 19TH, 1905.

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THE Committee of Auditors to the Zoological Society of London (with the assistance of the professional Auditor, who has certified the whole of the Accounts in detail) having examined the Books and Accounts for the year ended 31st December, 1904, submit to the Society an abstract of the Accounts, together with an estimate of the Assets and Liabilities at the close of the year.



## BALANCE SHEET,

*LIABILITIES.*

	£	s.	d.	£	s.	d.
To Sundry Creditors ... ..	1,403	16	3			
Do. for Rent and Taxes ... ..	230	1	9			
				1,633	18	0
„ Messrs. Drummond, Overdraft ... ..				4,851	13	9
„ Subscriptions received in advance ... ..				199	1	0
„ Composition Fund (not separately invested)—						
Balance at January 1st, 1904 ... ..	7,154	0	0			
Add 40 New Fellows at £30 ... ..	1,200	0	0			
				8,354	0	0
Less Amount transferred to Revenue ... ..	1,072	0	0			
				7,282	0	0
Zoological Society—						
Balance at January 1st, 1904 ... ..	51,732	8	7			
Add Excess of Ordinary Income over						
Expenditure ... ..	4,172	9	0			
				55,904	17	7
Less Extraordinary Expenditure ... ..	4,757	18	8			
				51,146	18	11
Less reduction on estimated						
value of animals ... ..	155	1	6			
Do. Unsold Publications ... ..	20	4	7			
Do. Stock of “Zoological						
Record” ... ..	233	0	3			
				408	6	4
				50,738	12	7
				£64,705	5	4



31st DECEMBER, 1904.

## ASSETS.

	£	s.	d.	£	s.	d.
By Animals in the Menagerie at Regent's Park at 31st December, 1903, estimated at ... ..	15,987	0	0			
Less Reduction on value at 31st December, 1904 ... ..	155	1	6			
				15,831	18	6
„ Freehold Premises at Hanover Square, taken as in last Balance Sheet ... ..				25,000	0	0
„ Books in Library (including purchases in 1904) estimated at ... ..				19,922	0	0
„ Unsold Publications at 31st December, 1903 ...	1,995	0	0			
Less Reduction on value at 31st December, 1904 ... ..	20	4	7			
				1,974	15	5
„ Stock of "Zoological Record" ... ..	1,141	0	0			
Less Reduction on value at 31st December, 1904 ... ..	233	0	3			
				907	19	9
„ Debts due to Society—						
Rent for Refreshment Rooms ... ..	250	0	0			
„ Offices at Hanover Square ... ..	45	12	0			
Garden Sales ... ..	70	1	3			
Bradbury, Agnew & Co. for Advertisements in "Garden Guide" ... ..	51	16	5			
Arrears of Fellowship Subscriptions £108, estimated to realise ... ..	51	0	0			
Spiers & Pond for Lavatories ... ..	24	15	6			
Publication Sales ... ..	188	13	6			
				681	18	8
„ Drainage at Refreshment Rooms, as per last Balance Sheet ... ..	407	0	0			
Less Instalments received from Messrs. Spiers & Pond ... ..	44	0	0			
				363	0	0
„ Cash in hand at Gardens ... ..				23	13	0
Office Furniture, Loose Plant, Premises at Gardens, Tools, &c., not valued.						
				£64,705	5	4



# INCOME AND EXPEN

## ORDI

<i>INCOME.</i>						£	s.	d.	£	s.	d.
Admission Fees...	...	...	...	...	...				1,100	0	0
Subscriptions ...	...	...	...	...	...				7,086	0	0
Compositions—											
Amount transferred from Fund—											
33 Fellows dying during the year...	...	...	...	...	...	134	0	0			
469 Fellows at £2 ...	...	...	...	...	...	938	0	0			
									1,072	0	0
									532	15	9
Garden Sales (Animals, &c.) ...	...	...	...	...	...				1,000	0	0
Rent of Refreshment Rooms ...	...	...	...	...	...				202	2	0
Rents, Hanover Square ...	...	...	...	...	...				17,063	8	4
Admission to Gardens ...	...	...	...	...	...				502	7	7
Riding Receipts...	...	...	...	...	...						
“Garden Guide” and Postcard Sales	...	...	...	...	...	1,032	7	4			
Less Expenses, Printing, &c. ...	...	...	...	...	...	504	9	7			
									527	17	9
Hon. W. Rothschild towards cost of Apes ...	...	...	...	...	...				100	0	0
Rent of Lavatories ...	...	...	...	...	...				24	15	6
Miscellaneous Receipts...	...	...	...	...	...				111	0	3

Carried forward ... ..

£29,322 7 2



# DITURE ACCOUNT.

## NARY.

### EXPENDITURE.

	£	s.	d.	£	s.	d.
Rent, Rates, Taxes and Insurance, Gardens ...				1,472	10	0
Rates, Taxes and Insurance, Office ...				298	16	7
Salaries, Gardens ...				4,318	14	8
Do. Office ...				1,432	17	10
Pensions, Gardens ...				260	0	0
Do. Office ...				752	0	0
Provisions, including Storekeeper's Wages...				3,513	8	10
Cost and Carriage of Animals ...				1,136	18	10
Menagerie Expenses:—						
Coke ...	457	6	4			
Straw ...	302	7	6			
Water and Pumping ...	265	0	10			
Keepers' Uniforms ...	145	19	6			
Other Expenses ...	630	14	0			
				1,801	8	2
Prosectorium Expenses:—						
Salaries ...	514	0	0			
Other Expenses ...	19	3	2			
				533	3	2
Works at Gardens:—						
Wages ...	3,118	13	8			
Materials ...	1,561	16	0			
				4,680	9	8
Works at Office... ...				105	12	9
Gardener's Expenses:—						
Wages ...	1,051	16	4			
Other Expenses ...	102	8	5			
				1,154	4	9
Advertisements ...				367	9	5
Band Expenses ...	161	3	0			
Less Proceeds of Advertisements on Programmes ...	55	1	0			
				106	2	0
House and Office Expenses, Gardens ...				386	12	11
Do. do. Hanover Square						
Wages ...	272	16	0			
Other Expenses ...	449	13	1			
				722	9	1
Stationery and Miscellaneous Printing ...				417	8	2
Cost of Publications ...	1,641	16	5			
Less Subscriptions and Sales ...	723	7	9			
				918	8	8
Carried forward ...				£24,378	15	6





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