

REPORT  
OF THE  
COUNCIL  
OF THE  
ZOOLOGICAL SOCIETY  
OF LONDON,  
FOR THE YEAR 1885.

READ AT THE ANNUAL GENERAL MEETING,

APRIL 29<sup>TH</sup>, 1886.

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## REPORT OF THE COUNCIL.

*April 29, 1886.*

THE Council have now the pleasure of submitting to the Fellows their fifty-seventh Annual Report upon the progress of the Society.

This, in accordance with previous Reports, is divided into three heads, the first of which relates to the General Condition of the Society and its Finances, the second to the business transacted at the Office in Hanover Square, and the last to the state of the Gardens in the Regent's Park.

### I. GENERAL CONDITION OF THE SOCIETY.

#### 1. STATE OF THE ROLL OF MEMBERS.

##### *a. Fellows.*

The number of Fellows and Fellows Elect at the close of the year 1885 was 3193, classified as follows:—

Compounders who have paid £20 . . . . .	33
Ditto ditto £30 . . . . .	894
Compositions remitted . . . . .	18
Paying annual contributions of £2 . . . . .	31
Ditto ditto £3 . . . . .	2073
Dormant . . . . .	131
Admission-fees unpaid . . . . .	13
	<hr/>
	3193



The state of the Society during the past ten years, as regards the number of its Ordinary Members, is shown by the subjoined Table.

*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 Readmitted.	Died.					Resigned.			Removed.			Ceased to be Fellows.	Number of Fellows, December 31.
		Compounders.			Subscribers.		Subscribers.		Admission Fees Unpaid.	Subscribers.		Admission Fees Unpaid.		
		£20.	£30.	Fee remitted	£2.	£3.	£2.	£3.		£2.	£3.			
1876.	224	9	28	...	4	63	...	49	1	...	...	...	154	3311
1877.	225	3	23	...	9	63	...	20	...	...	58	6	182	3354
1878.	176	6	12	...	5	52	1	40	1	...	...	1	118	3412
1879.	144	9	17	...	7	52	...	54	...	...	50	6	195	3361
1880.	153	4	18	1	4	65	...	74	...	...	38	4	208	3306
1881.	138	24	31	...	5	75	...	65	3	1	27	...	231	3213
1882.	164	3	23	1	4	61	...	48	...	...	11	13	164	3213
1883.	159	4	25	...	3	55	...	38	...	...	33	4	162	3210
1884.	183	1	28	...	5	53	...	37	...	1	7	6	138	3255
1885.	111	2	17	...	5	69	2	55	...	1	20	2	173	3193

It will be observed that the number of Fellows elected and readmitted in 1885 was only 111 (being considerably below the average of the preceding years), while the number of withdrawals by death and otherwise was 173. This made the total number of Fellows on the 31st of December last 3193, against 3255 at the corresponding date in 1884.

*b. Honorary Members.*

The following gentlemen were elected Honorary Members of the Society in 1885 :—

1. The Hon. Sir Arthur Hamilton-Gordon, G.C.M.G.
2. Sir John Hay Drummond-Hay, K.C.B.
3. Sir William C. F. Robinson, K.C.M.G.
4. Sir Walter Elliot, K.C.S.I.

*c. Foreign Members.*

The following Foreign Members were elected to fill vacancies in 1885 :—

1. Dr. Anton Dohrn, of the Zoological Station, Naples.
2. Dr. Edward von Martens, of the Royal Zoological Museum, Berlin.



d. *Corresponding Members.*

The following 13 Corresponding Members were elected in 1885 :—

1. B. F. Finch, Esq., of the Persian Gulf Telegraphs, Karachee.
2. Professor H. A. Pagenstecher, of the Natural History Museum, Hamburg.
3. Lt.-Col. Crawford, Deputy Commissioner, Thar and Parker Districts, Hyderabad.
4. Dr. C. Hart Merriam, Secretary to the American Ornithologists' Union, Lewis Co., New York.
5. R. E. Minchin, Esq., Director of the South-Australian Zoological and Acclimatization Society.
6. Professor Gustaf Retzius, M.D., of the Medico-Chirurgical Institute, Stockholm.
7. J. M. Vermont, Esq., of Batu Kawan Estate, Penang.
8. Surgeon-General Benjamin Simpson, C.B., of the Bengal Medical Service.
9. Captain John Hewat, Dock Superintendent, Cape Town.
10. Frederic Holmwood, Esq., H.B.M. Consul, Zanzibar.
11. Captain Richard C. Packe.
12. Dr. A. Boon, F.R.C.S., of Basse Terre, St. Kitts, West Indies.
13. Everard F. im Thurn, Esq., Pomeroon River, British Guiana.

2. STATE OF THE FINANCES.

a. *Income.*

The Council regret to have to announce a considerable falling off in the Income of the Society during the past year, the total receipts from every head having only amounted to £25,809 10s. 1*d.* against £28,939 8s. 8*d.* for the year 1884.

The several heads under which decrease has taken place are shown in the subjoined Table :—



*Comparative State of Income in 1884 and 1885.*

	Income of		Increase.	Decrease.
	1884.	1885.		
	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Admissions to Gardens .....	16,920 0 0	14,891 6 6	.....	2,028 13 6
Elephant and Camel-riding receipts .....	418 17 3	449 8 5	30 11 2	.....
Garden Sales.....	466 2 6	580 17 11	114 15 5	.....
Rent for Refreshment-rooms ...	1,214 0 0	1,101 6 8	.....	112 13 4
Rent for Freehold Premises ...	135 15 0	253 15 0	118 0 0	.....
Admission Fees:—				
Past .....	100 0 0	70 0 0	.....	30 0 0
Present .....	760 0 0	425 0 0	.....	335 0 0
Annual Subscriptions:—				
Past .....	30 0 0	27 0 0	.....	3 0 0
Present .....	6,350 3 0	6,244 0 0	.....	106 3 0
Future .....	108 0 0	150 0 0	42 0 0	.....
Compositions .....	1,290 0 0	630 0 0	.....	660 0 0
Ivory Tickets .....	49 8 0	19 19 0	.....	29 9 0
Publications .....	770 7 0	791 3 4	20 16 4	.....
Dividends .....	177 4 7	73 17 3	.....	103 7 4
Miscellaneous .....	149 11 4	101 16 0	.....	47 15 4
	28,939 8 8	25,809 10 1	326 2 11	3,456 1 6
Decrease .....	.....	3,129 18 7	Ded. Incr.	326 2 11
	28,939 8 8	28,939 8 8	.....	3,129 18 7

It will be observed that the principal falling off has been in the Garden Receipts and in the amounts received for Admission and Composition Fees from newly elected Fellows. There can be little doubt that the widespread depression that has prevailed throughout the past year was the cause of this diminution of the Society's Income in common with that of other bodies of a similar character.

*b. Expenditure.*

After adding to the Income of 1885 the balance carried forward from 1884 (£1247 10s. 2d.), it will be found that the sum of £27,057 0s. 3d. was available for the expenditure of 1885. This amount was disposed of in the following manner:—The ordinary payments in 1885 amounted to £24,593 11s. 8d., and the extraordinary to £491 0s. 6d., making a total expenditure of £25,084 12s. 2d. The sum of £1000 was paid to Messrs. Drummond in reduction of the Mortgage Debt of £11,000 secured on the Society's new freehold premises. This left a balance of £972 8s. 1d. on the 31st of December last to be carried over for the benefit of the present year, as will be seen by the following abstract of the Balance-sheet:—



*Abstract of Balance-sheet, 1885.*

<i>Receipts, 1885.</i>			<i>Payments, 1885.</i>		
	£	s. d.		£	s. d.
To Balance brought from December 31, 1884 .....	1,247	10 2	By Expenditure paid in the year...	25,084	12 2
To Income received in 1885 .....	25,809	10 1	By Repayment of Mortgage-debt	1,000	0 0
			By Balance at the Bankers', December 31, 1885 .....	972	8 1
	27,057	0 3		27,057	0 3

The next Table contains the various particulars of the expenditure of 1885, and a comparison of each of them with the corresponding amounts paid in the previous year:—

	Expenditure of		Increase.	Decrease.
	1884.	1885.		
	£	s. d.	£	s. d.
Arrears of previous years .....	4,479	0 1	1,954	4 9
Rent, Rates, Taxes, and Insurance ...	1,400	13 5	1,112	15 11
Salaries, Wages, and Pensions.....	5,918	5 2	5,864	17 4
Provisions .....	4,338	10 5	3,966	12 1
Cost and Carriage of Animals .....	1,424	3 6	1,164	8 6
Menagerie Expenses .....	3,118	19 7	3,119	4 3
Keepers' Dresses .....	157	17 0	146	16 0
Works, Materials, &c. ....	2,667	18 2	2,527	16 10
Buildings, Office .....	4,766	14 1		
Garden Expenses.....	960	3 8	772	3 2
Advertisements.....	210	18 1	198	17 5
Band Expenses .....	213	0 0	234	6 0
House and Office Expenses .....	803	19 4	676	8 8
Stationery and Account Books.....	64	9 9	56	1 5
Printing (Miscellaneous) .....	475	11 0	268	17 3
Publications .....	1,597	2 3	1,976	10 4
Library Expenses.....	674	2 5	530	11 10
Returned Subscriptions .....	34	10 6	26	15 9
Cost of Silver Medal .....	4	18 6		
Law Expenses .....	3	13 6		
Zoological Lectures (Davis Bequest)	81	18 0	79	8 0
Interest on Mortgage Debt .....	449	10 0	407	16 8
	33,845	18 5	25,084	12 2
Decrease .....			400	18 9
	33,845	18 5	8,761	6 3
Ordinary Payments.....	26,539	4 1	24,593	11 8
Extraordinary ditto.....	7,306	14 4	491	0 6
	33,845	18 5	25,084	12 2
			8,761	6 3

It will be observed that both under Ordinary and Extraordinary Heads a considerable reduction of expenditure was effected in 1885. The Ordinary Expenditure of the Society, which contains every item necessary to keep the Establishment in a state of perfect efficiency,



amounted in 1885 to £24,593 11s. 8d. against £26,539 4s. 1d. in 1884. The Extraordinary Expenditure in 1884 was limited to the sum of £491 0s. 6d., of which the particulars are subjoined.

*Extraordinary Expenditure paid in 1885.*

	£	s.	d.
Balance due on new Offices, No. 3 Hanover Square.....	175	5	5
New Sheep-sheds in Gardens .....	257	5	1
Dens for Small Cats'-house in Gardens .....	58	10	0
	<u>£491</u>	<u>0</u>	<u>6</u>

*c. Assets and Liabilities.*

The Assets and Liabilities of the Society on December 31, 1885, were estimated as follows:—

ASSETS.

	£	s.	d.
Animals in the Menagerie in the Regent's Park .....	21,630	0	0
Books in the Library at Hanover Square .....	12,884	0	0
Unsold Publications .....	2,500	0	0
Freehold Premises .....	25,000	0	0
Cost of £1,900 London and South-Western Railway New 4 per cent. Preference Stock (Davis Trust Fund) .....	1,938	9	6
Cash at the Bankers' (Messrs. Drummond) .....	972	8	1
Arrears considered good:—	£	s.	d.
Annual Subscriptions .....	82	0	0
Ivory Tickets.....	4	4	0
Publication Sales .....	115	7	6
Garden Sales .....	139	18	3
Rent for Refreshment Rooms.....	35	13	4
Rent for Freehold Premises.....	63	15	0
	<u>440</u>	<u>18</u>	<u>1</u>
	<u>£65,365</u>	<u>15</u>	<u>8</u>

LIABILITIES.

	£	s.	d.	£	s.	d.
Rent and Taxes unpaid:—						
For the Gardens, say .....	404	19	7			
" Office, say.....	50	10	3			
	<u>455</u>	<u>9</u>	<u>10</u>			
Bills, &c., estimated at:—						
For the Gardens, say .....	928	8	0			
" Office, say.....	610	3	11			
	<u>1,538</u>	<u>11</u>	<u>11</u>			
Messrs. Drummond, Mortgage Debt.....	10,000	0	0			
	<u>£11,994</u>	<u>1</u>	<u>9</u>			



## II. OFFICE, 3 HANOVER SQUARE.

### 1. SCIENTIFIC MEETINGS.

To the thirteen meetings for the despatch of scientific business held in the Society's Rooms in Hanover Square in 1885, 122 communications were made. Of these, 95 were from Fellows, 1 from a Foreign Member, and 12 from Corresponding Members of the Society. The remaining 14 papers were from individuals not belonging to the Society, and were communicated to it by the Secretary or by other Members. The corresponding number of communications in the year 1884 was 119.

These communications were submitted to the Committee of Publication, by whom the following orders were made respecting them: 4 were ordered to be printed entire in the 'Transactions' of the Society, and 82 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.

### 2. SCIENTIFIC PUBLICATIONS.

The volume of 'Proceedings' for 1885 is on the table. It contains 991 pages illustrated by 62 plates. In the following table are given the number of pages and plates of the volumes of 'Proceedings' for the past ten years:—

	plates.	pages.
1876 . . . . .	82	864
1877 . . . . .	85	893
1878 . . . . .	62	1056
1879 . . . . .	64	868
1880 . . . . .	64	743
1881 . . . . .	72	1056
1882 . . . . .	61	827
1883 . . . . .	61	704
1884 . . . . .	58	645
1885 . . . . .	62	991



Two Parts of the Society's 'Transactions' were issued during the year 1885, namely:—

VOL. XI. PART X. (June, 1885).

On the Muscular and Endoskeletal Systems of *Limulus* and *Scorpio*; with some Notes on the Anatomy and Generic Characters of Scorpions. By E. Ray Lankester, M.A., LL.D., F.R.S., Jodrell Professor of Zoology, assisted by W. B. S. Benham and Miss E. J. Beck (with twelve plates).

VOL. XI. PART XI. (concluding the volume)  
(November, 1885).

A Monograph of the Odontolabini, a subdivision of the Coleopterous family Lucanidæ. By Frank Leuthner, Ph.D., Member of the Imperial Royal Zoological and Botanical Society of Vienna (with fourteen plates).

Along with the last Part was also issued the titlepage, contents, and index for the eleventh volume of the Society's Transactions, rendering this volume complete.

Two more Parts of the 'Transactions' (Parts 1 and 2 of Vol. XII.) have been already issued during the present year, and several other parts are in a forward state. It is hoped and expected, therefore, that the arrears in this branch of the Publications, which have been occasioned by difficulties connected with bringing out one of the memoirs in the eleventh volume, will be shortly made good.

### 3. LIBRARY.

The Library, under the superintendence of Mr. Waterhouse, has been kept in good order during the past year, and has been in constant use by working zoologists.

A new edition of the Library Catalogue is in preparation, and will be ready for issue in 1887.

Many important additions were made to the Library during 1885, among which attention may be called to the following donations:—

- Bell. Comparative Anatomy and Physiology. 1885 Presented by the Author.
- Boulenger. Catalogue of Lizards in the British Museum. 2 vols. 1885. Presented by the Trustees of the British Museum.
- Handbook of Jamaica for 1885-86. Presented by the Editors.



- Hele's Notes or Jottings about Aldeburgh, Suffolk. 1870. Presented by J. H. Gurney, Esq.
- Heude. Notes sur les Mollusques terrestres de la Vallée du Fleuve Bleu. Parts 2, 3. 1882-85.—Mémoire sur les *Trionyx*. Part 1. 1880.—Conchyliologie fluviatile de la Province de Nanking et de la Chine Centrale. Parts 5-10. 1879-84. Presented by the Author.
- Journal of Comparative Medicine and Surgery. Vol. vi. Presented by the Editor.
- Lydekker. Catalogue of Fossil Mammalia in the British Museum. Part i. 1885. Presented by the Trustees of the British Museum.
- Marsh. Dinocerata. 1884. Presented by the Author.
- Moore's Lepidoptera of Ceylon. Parts x., xi. Presented by the Government of Ceylon.
- Norske Nordhavs-expedition, 1876-78. Parts xii.-xiv. Presented by Prof. H. Mohn.
- Scientific Results of the Second Yarkand Mission. Araneidea by Rev. O. Pickard Cambridge. 1885. Presented by the Author.
- Sharpe. Catalogue of Birds in the British Museum. Vol. x. 1885. Presented by the Trustees of the British Museum.

The following is a list of zoological works in course of publication of which parts were purchased in 1885:—

- Berlese. Acari, Myriapodi e Scorpioni Italiani. Fasc. xvi.-xxii. and Notes 1-3.
- Blasius und Hayek. Ornith. Jahrb. I. Heft 1.
- Booth. British Birds. Parts vii.-ix.
- Bronn's Thierreich. Band I. (*Protozoa*), Lief. 28-31; Band II. (*Porifera*), Lief. 7-11; Band VI. Abth. i. (*Pisces*), Lief. 4; Abth. iii. (*Reptilien*), Lief. 43-47; Abth. iv. (*Aves*), Lief. 10.
- 'Challenger,' Voyage of H.M.S. Zoology, Vols. xi.-xiii.; Botany, Vol. i.; Narrative, Vol. i.
- Carus. Prodromus Faunæ Mediterraneæ. Pars ii.
- Cory. Birds of Haiti and San Domingo. Part iv. (completed).
- Clessin. Malakozoologische Blätter. N. F. Band VIII. Bog. 1-3.
- Distant. Rhopalocera. Parts viii.-x.
- Dresser. Meropidæ. Part iv.
- Edwards. Butterflies of N. America. Ser. ii. Part xiii.
- Encyclopædia Americana. Vol. ii.
- Encyclopædia Britannica. Vols. xviii., xix.
- Fischer. Manuel de Conchyliologie. Fasc. viii.
- Fol. Recueil Zoologique Suisse. Tome ii.
- Giglioli. Iconografia dell' Avifauna Italica. Fasc. xxii.-xxvii.
- Girard. Traité élémentaire d'Entomologie. Tome iii. Fasc. ii.
- Godman and Salvin. Biologia Centrali-Americana. Zoology, Parts xxxv.-xliii.; Botany, Parts xviii.-xx.
- Gould's Birds of New Guinea. Parts xix., xx.
- . Supplement to the Trochilidæ. Part iv.
- Grandidier. Histoire de Madagascar. Vol. xii. Tome i.; Vol. xix. Tome ii.; et Atlas, Part i.
- Greene. Parrots in Captivity. Part xviii. (completed).
- Hamann. Beiträge zur Histologie der Echinodermen. Heft ii.



- Hayek. Handbuch der Zoologie. Lief. 18, 19.  
 Herman. Naturhistorische Hefte. Band VIII. Heft 4; Band IX. Heft 1.  
 His. Anatomie menschlicher Embryonen. Abth. iii. und Atlas.  
 Kingsley. The Standard Natural History. Vols. i.-vi.  
 Kobelt. Iconographie der schalentragender europäischen Meeresconchylien. Heft iii.  
 ——. Rossmässler's Iconographie der europäischen Land- und Süßwasser-Mollusken. N. F. Band II. Lief. i., ii.  
 Koch. Arachniden Australiens. Lief. 32.  
 Lichtenstein. Les Pucerons. Part i.  
 Lilford. British Birds. Part i.  
 Martini und Chemnitz. Conchylien-Cabinet. Lief. 333, 334.  
 McCoy. Natural History of Victoria. Zoology. Decade x.  
 Meyer. Abbildungen von Vögel-Skeletten. Lief. viii., ix.  
 Oberthür. Etudes d'Entomologie. Livr. x.  
 Olphe-Galliard. Contributions à la Faune Ornithologique de l'Europe Occidentale. Fasc. v., xxxiii.  
 Railliet. Eléments de Zoologie. Fasc. i.  
 Ratzeburg. Lehrbuch der Mitteleuropäischen Forstinsektenkunde. Abth. i.  
 Rochebrune. Faune de la Sénégambie (Reptiles et Amphibiens).  
 Romanoff. Mémoires sur les Lépidoptères. Tome ii.  
 Russ. Fremdlandische Stubenvögel. Band IV. Lief. 6.  
 Schiödde. Zoologica Danica. Heft iv.  
 Schneider. Zoologische Beiträge. Band I. Heft 3.  
 Seebohm. British Birds. Parts v., vi. (completed).  
 Semper. Reisen im Archipel der Philippinen. Theil II. Band iv. Abth. iii.  
 Sharpe and Wyatt. Monograph of the Hirundinidæ. Part i.  
 Staudinger. Exotische Schmetterlinge. Lief. 6-12.  
 Sundman. Finlands Fiskar. Parts 3-6.  
 Thomson. Opuscula Entomologica. Part x.  
 Tryon. Manual of Conchology. Parts xxv.-xxviii.; Ser. 2. Parts i.-iv.  
 Veth. Midden-Sumatra. Deel IV. Ged. 3, 4.  
 Vogt et Yung. Traité d'Anatomie Comparée. Lief. 6, 7.  
 ——. Lehrbuch der Anatomie. Lief. i.-iv.  
 Waterhouse. Aid to the Identification of Insects. Parts xxiii.-xxv.  
 Yarrell's British Birds. Parts xxvii.-xxx. (completed).  
 Zittel. Handbuch der Paläontologie. Band I. Abth. ii. Lief. iv.

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

- Argenville. La Conchyliologie. 3 vols. 4to, 1780.  
 Boisduval. Faune Entomologique de Madagascar, Bourbon et Maurice. Royal 8vo, 1833.  
 Born. Testacea Musei Vindobonensis. Folio, 1780.  
 Bridgewater Treatises. 12 vols. 8vo, 1833-37.  
 Cetti. Storia Naturale di Sardegna. 3 vols. 8vo, 1774-77.



- Claus. *Traité de Zoologie*. 2nd French edition. By G. Moquin-Tandon. Royal 8vo, 1884.
- . *Elementary Text-book of Zoology*. Translation by Adam Sedgwick. 2 vols. 8vo, 1884-85.
- Cory. *A List of the Birds of the West Indies*. 4to, 1885.
- Cuvier. *Recherches sur les Ossemens fossiles de Quadrupèdes*. 4 vols. 4to, 1812.
- Darluç. *Histoire Naturelle de la Provence*. 3 vols. 8vo, 1782-86.
- Donovan. *British Insects*. 16 vols. 8vo, 1802-13.
- Esper. *Die ausländischen oder aussereuropäischen Schmetterlinge*. 4to, 1801.
- Forbes. *A Naturalist's Wanderings in the Eastern Archipelago*. 8vo, 1885.
- Forbes's Scientific Papers. By F. E. Beddard, with a Preface by P. L. Sclater. Royal 8vo, 1885.
- Gray. *Descriptions and Figures of some new Lepidopterous Insects from Nepal*. 8vo, 1846.
- Hayes. *Natural History of British Birds*. Folio, 1775.
- Herold. *Entwicklungsgeschichte der Schmetterlinge*. Text and Atlas, 4to, 1815.
- Hoeven. *Handbuch der Zoologie*. 2 vols. 8vo, 1850-56.
- Hübner. *Beiträge zur Geschichte der Schmetterlinge*. 2 vols. 8vo, 1786-89.
- Jablonsky und Herbst. *Natursystem aller bekannten in- und ausländischen Insekten*. Text, 10 vols. 8vo; Atlas, 4to, 1785-1806.
- Johnston. *The Kilima-njaro Expedition*. Royal 8vo, 1886.
- Kinloch. *Large Game-shooting in Thibet*. 4to, 1885.
- Lansdell. *Russian Central Asia*. 2 vols. Royal 8vo, 1885.
- Lewin. *Natural History of the Lepidopterous Insects of New South Wales*. 4to, 1822.
- Macleay. *Horæ Entomologicæ*. 8vo, 1819-21.
- Pennant. *Arctic Zoology*. 3 vols. 4to, 1792.
- Phillips. *Manual of Geology*. Edited by R. Etheridge and H. G. Seeley. 2 vols. Royal 8vo, 1885.
- Quarterly Journal of Microscopical Science*. 30 vols. 8vo, 1853-82.
- Say. *American Entomology*. 3 vols. Royal 8vo, 1824-28.
- Spix. *Cephalogenesis*. Folio, 1815.
- . *Animalia nova, sive species novæ Lacertarum*. Sm. folio, 1825.
- Strecker. *Lepidoptera, Rhopaloceres and Heteroceres, indigenous and exotic*. 15 parts (*all published*). 4to, 1872-77.
- . *Butterflies and Moths of North America*. 8vo, 1878.
- Transactions of the Royal Microscopical Society of London*. 19 vols. 8vo, 1840-68.
- Vejdovský. *System und Morphologie der Oligochæten*. Folio, 1884.
- Wagner. *Die Wirbellosen des Weissen Meeres*. Band i. Folio, 1885.
- Wood. *Index Testaceologicus*. 8vo, 1825.
- Yarrell. *A History of British Fishes*. Second edition. 2 vols. 8vo, 1841.



The following is a list of the periodicals received in 1885 from the various Societies and Institutions with which this Society is in correspondence.

AFRICA.

The South African Philosophical Society, Cape Town.  
Transactions, vol. iii.

AMERICA (NORTH).

The Academy of Natural Sciences, Philadelphia.  
Proceedings, 1884, part 3; 1885, parts 1, 2.

The American Academy of Arts and Sciences, Boston.  
Proceedings, n. s., vol. xii.  
Memoirs, vol. xi. part ii. no. 1.

The American Association for the Advancement of Science.  
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### III. GARDENS, REGENT'S PARK.

#### I. WORKS AND REPAIRS.

In view of the reduced receipts during the past year the Council thought that it would be prudent to restrict the expenditure on new works in the Gardens within narrow limits. The ordinary staff of workmen was, however, kept busily engaged on renewals and repairs throughout the year, and the following amongst other less important improvements were effected. The remaining portion of the Kangaroo-sheds were rebuilt and covered with a glass roof, so as to correspond with the first section, which was treated in a similar way in 1884. The Pheasantries were repaired and re-netted. A new Water-main was laid from the South Entrance to the Western Aviary. The roof of the Hippopotamus-house was repaired and made good throughout. During the winter a large quantity of clay at the back of the Reptile-house was burned and converted into ballast.

Besides these works two other more important improvements were carried out by the Society's staff, and the materials employed thereon were charged to Extraordinary Expenditure. These were :

##### a. *The New Sheep-yard.*

The accommodation in the present Sheep-sheds being insufficient, and it being evident that more space should be given for the exhibition of these interesting animals, a large circular enclosure has been constructed at the further end of the Broad Walk, near the outer fence of the Gardens. The house for the Sheep, placed in the centre of this enclosure, has been covered with rock-work, and makes a large elevated mound very suitable to the habits of these rock-loving animals. It was hoped that the first tenants of the new Sheep-yard would have been some Big-horn Sheep from the Rocky Mountains (*Ovis canadensis*), which the Council were expecting to receive last summer. These animals failing to arrive, the Sheep-yard is for the present occupied by a family of the Burrhel



Sheep of the Himalayas (*Ovis burrhel*), which appear to enjoy their new quarters very much. The amount expended on the materials for the new Sheep-yard was £257 5s. 1d., as already mentioned under the head of extraordinary expenditure.

b. *The Smaller Cats'-house.*

The only other item of extraordinary expenditure in 1885 was caused by the thorough repair of the old Reptile-house, and its conversion into a house for the smaller Carnivora.

The separation of the Carnivorous Animals from the Rodents and other Frugivorous Mammals, which have been hitherto placed all together in the small Mammal-house, has long been considered very desirable. The vacancy caused by the removal of the Reptiles to the new Reptile-house on the other side of the Gardens afforded an opportunity for the partial realization of this plan. After having been thoroughly repaired and refloored, the former Reptile-house has been fitted up with cages suitable for the Exhibition of the smaller Cats and allied Carnivora. The actual cost of these cages (£58 10s.) has been charged to extraordinary expenditure, the repairs having been executed by the ordinary staff of workmen.

In order to relieve the small Mammal House still further from its hitherto crowded condition, it is proposed to build a new house for the wild species of the genus *Canis*, embracing the Wolves, Dogs, and Foxes, which are now scattered about in various parts of the Gardens. It is hoped that this work may be accomplished during the present summer, the plans for the new Dog-kennels, prepared by Mr. Trollope, having been already settled and approved of. When this has been done, the former small Mammal House will furnish good accommodation for the Porcupines, Squirrels, and numerous other animals of the Rodent order, which are not habitually of a Carnivorous nature.



## 2. STAFF.

The permanent Staff of the Society's Gardens remains nearly the same as at the last Anniversary. It consists of:—

- 1 Superintendent.
- 1 Assistant Superintendent.
- 1 Head Keeper.
- 6 Keepers (1st class).
- 7 Keepers (2nd class).
- 11 Keepers (3rd class).
- 4 Money-takers.
- 1 Storekeeper.
- 1 Cook.
- 1 Office Clerk.
- 1 Prosector's Assistant.
- 1 Head Gardener.

—  
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Besides these there are usually 19 Helpers in the Menagerie, 13 Garden-labourers, 9 Artisans, 3 Painters, 11 Labourers, 1 Butcher, 2 Firemen, 2 Night-Watchmen, and 1 Time-keeper employed at weekly wages; so that the number of the whole staff may be reckoned at about 97 persons.

## 3. VISITORS.

The total number of visitors to the Society's Gardens during the year 1885 was 659,896, as will be seen by the following Table, which gives the corresponding numbers of entrances under each head for 1884 and 1885:—

*Visitors to the Gardens.*

	1884.	1885.	Comparison.	
Fellows and Friends .....	225,874	192,299	Decr. 33,575	
Paying {	On ordinary days at 1s. each...	175,691	147,785	Decr. 27,906
	On Mondays and other days	252,021	249,496	Decr. 2,525
	at 6d. each .....			
Children under 12 years at 6d. each .....	71,896	49,097	Decr. 22,799	
School Children (admitted free) .....	19,978	21,219	Incr. 1,241	
	745,460	659,896	Decr. 85,564	



The subjoined Table contains a statement of the Number of Visitors to the Society's Gardens during each year, from the year 1828 to the year 1885.

*Number of Visitors to the Gardens, 1828-85.*

Year.	Number.	Year.	Number.
1828	98,605	1858	351,580
1829	189,913	1859	364,356
1830	223,420	1860	394,906
1831	262,193	1861	381,837
1832	206,652	†1862	682,205
1833	211,343	1863	468,700
1834	208,583	1864	507,169
1835	210,068	1865	525,176
1836	263,372	1866	527,349
1837	173,778	1867	556,214
1838	179,197	1868	573,186
1839	158,432	1869	572,848
1840	141,009	1870	573,004
1841	132,616	1871	595,917
1842	107,459	1872	648,088
1843	98,280	1873	713,046
1844	101,527	1874	706,907
1845	99,615	1875	699,918
1846	100,045	‡1876	915,764
1847	93,546	1877	781,377
1848	143,630	1878	706,713
1849	168,895	1879	643,000
1850	360,402	1880	675,979
*1851	667,243	1881	648,694
1852	305,203	1882	849,776
1853	409,076	1883	743,485
1854	407,676	1884	745,460
1855	315,002	1885	659,896
1856	344,184		
1857	339,217		

\* Year of the Great Exhibition.

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

It will be observed that the number of Visitors in 1885 is less than that of the three past years, but has exceeded that of 1881 by 11,202.



## 4. PROSECTOR'S DEPARTMENT.

Mr. F. E. Beddard, the Prosector to the Society, reports that the number of deaths during the year amounted to 990, being a decrease of 112 as compared with the previous year.

The only two deaths of importance were the Sondaic Rhinoceros, and one of the two Sumatran Rhinoceroses that were purchased by the Society on April 1st, 1885.

The Sondaic Rhinoceros died on June 23rd, the apparent cause of death being an inflammation of the stomach. The animal was dissected by the Prosector and Mr. Frederick Treves, F.R.C.S., and an account of its anatomy will appear in the 'Transactions.'

The Sumatran Rhinoceros died on May 22nd quite suddenly; the cause of death was found to be a rupture of the cæcum. By the kindness of the authorities at the London Hospital, a tank in their dead-house was allowed to be used for the body of the Rhinoceros; and it has therefore been possible to preserve the animal for a considerable period, and to study the myology. It is proposed to offer to the Society a detailed account of the muscular anatomy of this Rhinoceros: this will form a supplement to the paper on the Javan Rhinoceros, which dealt exclusively with the visceral anatomy.

Material from this Department has been supplied, for the purposes of research, to Mr. Treves, Dr. Hoggan, Dr. Beevor, and Prof. Windle; for museum purposes, to the Royal College of Surgeons, the Natural-History Museum, Prof. d'Arcy Thompson, Prof. G. B. Howes, and University College, London.

Mr. Treves has continued his investigations into the mammalian alimentary tract and mesenteries, and has put forward his results in a series of lectures on that subject, delivered in the College of Surgeons.

Mr. J. B. Sutton has utilized most of the pathological material, and his results have been published in the Society's 'Proceedings' and elsewhere.

The Prosector has read and published the following papers during the year 1885:—"On the Structure of the Cuckoos"; "On the Heart of *Apteryx*"; "Notes on the Visceral Anatomy of Birds."



## 5. ZOOLOGICAL LECTURES.

The Zoological Lectures, to which the proceeds of the Davis Trust-fund have been devoted for several years, were continued in 1885. They will likewise be given this year in the Lecture-room in the Society's Gardens, on Thursdays at 5 P.M., commencing June 3rd.

The following is a list of the lecturers and subjects for the present year:—

Date.	Subject.	Lecturer.
1. Thursday, June 3 ...	Pigs and their Allies .....	Prof. Flower, LL.D., F.R.S.
2. " " 10 ...	The Study of Zoology .....	Dr. St. George Mivart, F.R.S.
3. " " 17 ...	Scorpions .....	Prof. E. R. Lankester, F.R.S.
4. " " 24 ...	Beavers .....	J. E. Harting, Esq., F.L.S.
5. " July 1 ...	Some of the ways in which Animals breathe .....	Prof. F. Jeffrey Bell, M.A.
6. " " 8 ...	Eyes .....	F. E. Beddard, Esq., M.A.
7. " " 15 ...	Swifts and Swallows .....	P. L. Sclater, Esq., F.R.S.

These Lectures will be free to Fellows of the Society and their Friends, and to other Visitors to the Gardens.

## 6. MENAGERIE.

a. *Additions to the Menagerie in 1885.*

The number of animals belonging to the first three classes of Vertebrates living in the Society's Menagerie at the close of 1885 was 2551. The corresponding number on the 31st of December, 1884, was 2501, as will be seen by the subjoined Table:—

	December 31.		Comparison.
	1884.	1885.	
Quadrupeds.....	731	756	Incr. 25
Birds .....	1423	1366	Decr. 57
Reptiles .....	347	429	Incr. 82
	2501	2551	Incr. 50

The total number of registered additions to the Menagerie in 1885 was 1451, of which 762 were acquired by presentation, 251 by purchase, 241 were bred in the Gardens, 135 were received on deposit, and 62 obtained in exchange.



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

	Presented.	Purchased.	Born.	Deposited.	Received in Exchange.	Total.
1874.	425	296	214	242	25	1202
1875.	559	557	156	143	43	1458
1876.	533	316	171	172	27	1219
1877.	506	324	181	181	68	1260
1878.	511	272	150	178	71	1182
1879.	550	421	115	124	56	1266
1880.	624	515	148	161	40	1488
1881.	565	310	167	136	35	1213
1882.	772	402	113	111	25	1423
1883.	637	376	128	219	28	1388
1884.	646	524	174	229	133	1706
1885.	762	251	241	135	62	1451

The following is a list of the most noticeable additions made to the Menagerie during the year 1885:—

1. A Black-and-Yellow Hawfinch (*Mycerobas melanoxanthus*) from Northern India, and an Andaman Starling (*Sturnia andamanensis*) from the Andaman Islands, purchased January 10.

2. A young male European Moose (*Alces machlis*), presented by Evelyn Hubbard, Esq., January 22nd. Mr. Hubbard informs us that this animal was captured on the Ladoga, Russia, when evidently but just dropped, in June 1884. It has been placed in the Gardens in company with an American specimen of the Moose, purchased in April 1884, so that the two forms of this animal, sometimes supposed to be of different species, may now be seen side by side.

3. A pair of Yaks (*Poepagus grunniens*), purchased January 23rd.

4. A Viverrine Phalanger (*Phalangista viverrina*) from Australia, purchased February 10th, new to the Society's Menagerie.

5. An Isabelline Lynx (*Felis isabellina*), received in exchange from the Zoological Gardens, Calcutta, February 27th.

6. Two Brown Pelicans (*Pelecanus fuscus*), purchased February 28th. The acquisition of these birds renders the Society's series of Pelicans very nearly complete, as it now comprises examples of seven species.

7. A female Roan Kangaroo (*Macropus erubescens*), being the third specimen of this Kangaroo acquired by the Society, and the first of the female sex.

8. Six Wattled Starlings (*Dilophus carunculatus*) from South Africa, purchased March 20th and 27th. These are the first examples we have received of this curious Starling, which is



remarkable for the extreme development of the wattles in the adult male in breeding-plumage.

9. Two Striated Colies (*Colius striatus*), purchased March 20th. These are the first examples of this Coly yet received; they have been placed in the Parrot House along with the specimens of other species of the same genus.

10. Two Gouldian Grass-Finches (*Poëphila gouldiæ*), both believed to be of the male sex, presented by Mr. C. N. Rosenfeld, April 18th, and new to the Society's Collection.

11. Four Pucheran's Guinea-fowls (*Numida pucherani*) from Eastern Africa, presented by Commander C. E. Gissing, R.N., H.B.M. Vice-Consul at Zanzibar. This fine species has not lately been represented in the Society's series.

12. A Spurred Chameleon (*Chamæleon calcarifer*), presented by Major J. W. Yerbury, R.A. Major Yerbury writes from Aden (April 8th, 1885) that this fine Chameleon was caught a few miles from Aden.

13. A fine series of Australian Reptiles, received in exchange from the Zoological Society of New South Wales on June 11th, and containing examples of two species of Lizards and six species of Snakes; of the latter, three species (viz. *Diemenia psammophis*, *Hoplocephalus curtus*, and *Dendrophis punctulatus*) were new to the Collection.

14. A collection of Javan animals, presented by Dr. F. H. Bauer, of Buitenzorg, Java, C.M.Z.S., and containing examples of an Owl (*Phodilus badius*) and of three Reptiles and a Batrachian, all new to the Society's series.

15. A collection of North-American Reptiles, presented by F. J. Thomson, Esq., amongst which were examples of the Alleghany Snake, *Coluber alleghaniensis*, new to the Society's Collection.

16. Several collections of Reptiles from the Cape Colony, presented by the Rev. G. H. R. Fisk, C.M.Z.S., amongst which was an example of a species of Elaps (*Elaps hygiæ*) from Uitenhage, Cape Colony, new to the Collection.

17. An example of the Black-eyebrowed Albatross (*Diomedea melanophrys*), obtained in False Bay, Cape Colony, and presented to the Society by W. Ayshford Sanford, Esq., F.Z.S.

18. A male Cheetah (*Cynælurus jubatus*), received December 8th, presented to the Society by Nawab Mirza Hassim Ali Khan, of the Afghan Frontier Survey. A pair of feline animals captured, in November 1884, near the Istoi Pass on the Perso-Afghan Frontier, when quite young, after the mother had been shot, by some of the members of the Afghan Boundary Commission, were believed at the time to be Snow-Leopards (*Felis uncia*), and forwarded to Pisheen, where they were kindly kept through last summer by Mr. H. J. Barnes, Political Agent at



Quetta. The survivor of them having arrived in this country proves to be not a Snow-Leopard but a fine young male Cheetah (*Cynælurus jubatus*).

19. A female Tiger from Turkestan, deposited by J. E. T. Aitchison, Esq., M.D., Naturalist to the Afghan Boundary Commission. This specimen seems to belong to the small and densely furred form of *Felis tigris* prevalent in northern latitudes.

20. Four young Gazelles obtained during the Survey of the Boundary of Northern Afghanistan, and deposited by the same gentleman. These Gazelles are probably referable to *Gazella subgutturosa*, but seem to differ somewhat from our previously received specimens of the same species.

21. Two curious hybrid Ducks, bred, in 1884, at the Prince of Wales Hotel, Cannes, between the Ruddy Sheldrake (*Tadorna rutila*) and the Egyptian Goose (*Chenalopex ægyptiaca*). This pair of hybrids was presented to Dr. T. E. Charles, of Cannes, by Madame de la Blanchetein of the same place. Dr. Charles presented them to Sir Joseph Fayrer, who has kindly transferred them to the Society's Collection.

b. *List of Species new to the Collection exhibited during the year 1885.*

The following list contains the specimens exhibited in 1884 which are referable to species not included in the last (eighth) edition of the List of Animals.

i. MAMMALS.

5 a. *Hylobates pileatus*, Gray. Siamese Gibbon.  
*Hab.* Siam.

a. Purchased, Jan. 1, 1885.

229 a. *Canis pallidus*, Rüpp. Pale Fennec Fox.  
*Hab.* Soudan.

a, b. Presented by Capt. J. S. Talbot, 1st Shrop. Lt. Inf.,  
Nov. 24, 1885. See P. Z. S. 1885, p. 851.

246 a. *Urocyon virginianus* (Erxl.). Virginian Fox.  
*Hab.* North America.

a. Received in exchange, Jan. 17, 1885. From Dakota,  
U.S.A.



- 342a. *Xerus rutilus* (Cretzschm.). Ruddy Ground-Squirrel.  
*Hab.* Africa.  
 a. Presented by Mrs. Blair, June 4, 1885.
- 362a. *Hydromys leucogaster*, Geoffr. White-bellied Beaver Rat.  
*Hab.* Australia.  
 a. Received in exchange, May 18, 1885.
- 363 a. *Gerbillus campestris* (Vieill.). Field Gerbille.  
*Hab.* Nubia.  
 a, b. Presented by Major J. A. Shaw, Aug. 19, 1885.  
 From Suakim.
- 370a. *Mus bandicota* (Bechst.). Bandicoot Rat.  
*Hab.* India.  
 a, b. Presented by Col. C. S. Sturt, C.M.Z.S., June 18, 1885  
 (white varieties).
- 376a. *Arvicola pratensis*, F. Cuv. Bank-Vole.  
*Hab.* British Islands.  
 a. Presented by E. Rosling, Esq., Sept. 7, 1885.
- 421a. *Lepus sylvaticus*, Bachm. Wood-Hare.  
*Hab.* North America.  
 a, b. Presented by J. F. Thompson, Esq., Feb. 28, 18 5
- 459a. *Tragelaphus gratus*, Sclater. Pleasant Antelope.  
*Hab.* West Africa.  
 a. Female. Purchased, June 18, 1885. See P. Z. S. 1885,  
 p. 717.
- 634a. *Phalangista viverrina*, Ogilby. Viverrine Phalanger.  
*Hab.* Australia.  
 a. Female. Purchased, Feb. 10, 1885. See P. Z. S. 1885,  
 p. 245.



## ii. BIRDS.

- 38 a. *Cichlherminia densirostris* (Vieill.). White-eyed Mock Thrush.  
*Hab.* St. Kitts, W. I.  
 a. Presented by Dr. A. Boon, F.R.C.S., C.M.Z.S., May 12 1885.
- 167 a. *Poëphila gouldiæ*, Des Murs. Gouldian Grass-Finch.  
*Hab.* Australia.  
 a, b. Males. Presented by Chas. N. Rosenfeld, Esq., April 18, 1885. See P. Z. S. 1885, p. 421.
- 242 a. *Mycerobas melanoxanthus* (Hodgs.). Black-and-Yellow Hawfinch.  
*Hab.* North India.  
 a. Female. Purchased, Jan. 10, 1885. See P. Z. S. 1885, p. 168.
- 264 a. *Serinus tottus* (Gmel.). Brown Canary.  
*Hab.* South Africa.  
 a. Presented by Mr. J. Abrahams, March 20, 1885.
- 337 a. *Sturnia andamanensis* (Tytler). Andaman Starling.  
*Hab.* Andaman Islands.  
 a. Purchased, Jan. 10, 1885. See P. Z. S. 1885, p. 168.
- 340 a. *Dilophus carunculatus* (Gm.). Wattled Starling.  
*Hab.* South Africa.  
 a, b. Males ; c, d. Females. Purchased, March 20, 1885.  
 e, Male ; f. Female. Purchased, March 27, 1885. See P. Z. S. 1885, p. 322.



- 346 *a.* *Paradisea apoda*, Linn. Great Bird of Paradise.  
*Hab.* Arrow Islands.  
*a.* Male. Deposited, Oct. 1, 1885.
- 432 *c.* *Colius capensis*, Gm. Cape Coly.  
*Hab.* South Africa.  
*a, b.* Purchased, March 20, 1885. See P. Z. S. 1885,  
 p. 322.
- 432 *d.* *Colius striatus*, Gm. Striated Coly.  
*Hab.* South Africa.  
*a.* Purchased, July 3, 1885.
- 700 *a.* *Phodilus badius* (Horsf.). Bay Wood-Owl.  
*Hab.* Java.  
*a.* Presented by Dr. F. H. Bauer, C.M.Z.S., Aug. 15,  
 1885.
720. *Bubo orientalis* (Horsf.). Oriental Eagle-Owl.  
*Hab.* Siam.  
*a.* Presented by Dr. F. H. Bauer, C.M.Z.S., Aug. 15, 1885.  
 From Java. See P. Z. S. 1885, p. 718.
- 826 *a.* *Tinnunculus dominicensis*, Cab. Dominican Kestrel.  
*Hab.* West Indies.  
*a.* Presented by Dr. A. Boon, F.R.C.S., C.M.Z.S., May 12,  
 1885. From St. Kitts, W. I.  
*b-e.* Presented by Dr. A. Boon, F.R.C.S., C.M.Z.S., July 27,  
 1885. From St. Kitts, W. I.  
*f-j.* Presented by Dr. A. Boon, F.R.C.S., C.M.Z.S., Aug. 9,  
 1885. From St. Kitts, W. I.
- 834 *a.* *Elanus caeruleus* (Desf.). Black-shouldered Kite.  
*Hab.* Africa.  
*a.* Received in exchange, Dec. 1, 1885.



1830 *a.* *Carpophaga pacifica* (Gm.). Pacific Fruit-Pigeon.  
*Hab.* Solomon Islands.

*a.* Presented by T. H. Bowyer Bower, Jun., Esq., June 27, 1885.

1033 *a.* *Carpophaga rufigula*, Salvad. Vinous-throated  
Fruit Pigeon.

*Hab.* Solomon Islands.

*a.* Presented by T. H. Bowyer Bower, Jun., Esq., June 27, 1885.

1040 *a.* *Ptilopus porphyraceus* (Forst.). Purple-crowned  
Fruit-Pigeon.

*Hab.* New Guinea.

*a.* Deposited, Aug. 6, 1885.

1405 *a.* *Diomedea melanophrys*, Temm. Black-eyebrowed  
Albatross.

*Hab.* Antarctic seas.

*a.* Presented by W. Ashford Sanford, Esq., F.Z.S.,  
Oct. 29, 1885. From False Bay, South Africa.  
See P. Z. S. 1855, p. 833.

### iii. REPTILES.

71 *a.* *Pelomedusa subrufa* (Latr.). Reddish Pentonyx.

*Hab.* South Africa.

*a.* Presented by the Rev. G. H. R. Fisk, C.M.Z.S., Oct. 8, 1885.

141 *a.* *Euprepes carinatus* (Schneid.). Keeled Euprepes.

*Hab.* South Africa.

*a.* Presented by the Rev. G. H. R. Fisk, C.M.Z.S., Oct. 29, 1885.



- 148a. *Calotes gutturosus* (Merr.). Guttural Lizard.  
*Hab.* Java.  
*a, b.* Presented by Dr. F. H. Bauer, C.M.Z.S., Aug. 15, 1885.
- 177a. *Chamaleon calcarifer*, Peters. Spurred Chameleon.  
*Hab.* Arabia.  
*a.* Presented by Major J. W. Yerbury, R.A., June 3, 1885.  
 See P. Z. S. 1885, pp. 717, 833.
- 178a. *Trogonophis wiegmanni*, Kaup. Wiegmann's Amphisbæna.  
*Hab.* North Africa.  
*a.* Presented by J. H. Leech, Esq., F.Z.S., May 31, 1885.
- 242a. *Coluber getulus*, Linn. King Snake.  
*Hab.* North America.  
*a.* Deposited, Aug. 27, 1885.
- 242b. *Coluber alleghaniensis*, Holbr. Alleghany Snake.  
*Hab.* North America.  
*a, b.* Presented by F. J. Thompson, Esq., Oct. 2, 1885.  
 From Indiana. See P. Z. S. 1885, p. 833.
- 267a. *Dendrophis punctulatus* (Gray). Punctulated Tree-Snake.  
*Hab.* New South Wales.  
*a.* Received in exchange, June 11, 1885. See P. Z. S. 1885, p. 717.
- 270a. *Dryophis prasina* (Reinw.). Grass-green Tree-Snake.  
*Hab.* Java.  
*a.* Presented by Dr. F. H. Bauer, C.M.Z.S., Aug. 15, 1885.



278 *b.* *Hoplocephalus curtus* (Schleg.). Short Death-Adder.

*Hab.* New South Wales.

*a.* Received in exchange, June 11, 1885. See P. Z. S. 1885, p. 717.

279 *a.* *Diemenia psammophis* (Schl.). Schlegel's Sand-Snakes.

*Hab.* New South Wales.

*a-d.* Received in exchange, June 11, 1885. See P. Z. S. 1885, p. 717.

284 *a.* *Elaps hygiæ* (Shaw). Hygian Snake.

*Hab.* South Africa.

*a.* Presented by the Rev. G. H. R. Fisk, C.M.Z.S., Oct. 8, 1885. From Uitenhage, Cape Colony. See P. Z. S. 1885, p. 833.

#### iv. BATRACHIANS.

1 *a.* *Rana agilis*, Thomas. Agile Frog.

*Hab.* South Europe.

*a-f.* Purchased, April 10, 1885.

4 *a.* *Rhachophorus maculatus* (Gray). Spotted Tree-Frog.

*Hab.* Java.

*a-c.* Presented by Dr. F. H. Bauer, C.M.Z.S., Aug. 15, 1885.

39 *a.* *Salamandrina perspicillata*, Savi. Spectacled Salamander.

*Hab.* Italy.

*a-l.* Presented by Prof. H. H. Giglioli, C.M.Z.S., Nov. 28, 1885. See P. Z. S. 1885, p. 851.



## v. FISHES.

- 69a. *Cobitis taenia*, Linn. Ground-Loach.  
British fresh waters.

c. *List of Animals bred in the Gardens during  
the year 1885.*

## MAMMALS.

- 1 Bonnet Monkey (*Macacus sinicus*).  
1 Black Lemur (*Lemur macaco*).  
1 White-fronted Lemur (*Lemur albifrons*).  
2 Coquerel's Lemur (*Cheirogaleus coquereli*).  
3 Lions (*Felis leo*).  
1 Leopard (*Felis pardus*).  
1 Hybrid Common Genet. (Between *Genetta vulgaris*  
and *Genetta pardina*.)  
4 Collared Fruit-Bats (*Cynonycteris collaris*).  
2 Prairie Marmots (*Arctomys ludovicianus*).  
3 Canadian Beavers (*Castor canadensis*).  
22 Long-fronted Gerbilles (*Gerbillus longifrons*).  
5 Coypus (*Myopotamus coypus*).  
1 Zebu (*Bos indicus*).  
1 Three-quarter-bred American Bison. (Bred between  
*Bison americanus* and a female bred between *Bison  
americanus* and a hybrid between *Bos frontalis*  
and *Bos indicus*.)  
1 Yak (*Poephagus grunniens*).  
1 Gayal (*Bibos frontalis*).  
1 Beisa Antelope (*Oryx beisa*).  
1 Duyker-Bok (*Cephalophus mergens*).  
2 Four-horned Antelopes (*Tetraceros quadricornis*).  
1 Hybrid Nubian Ibex. (Between *Capra nubiana* and  
*Capra hircus*.)  
1 Thar (*Capra jemlaica*).  
1 Hybrid Lühdorf's Deer. (Between *Cervus luehdorfi*  
and *C. canadensis*.)  
1 Burrhel Wild Sheep (*Ovis burrhel*).



- 2 Japanese Deer (*Cervus sika*).
- 1 Sambur Deer (*Cervus aristotelis*).
- 1 Hog-Deer (*Cervus porcinus*).
- 1 Molucca Deer (*Cervus moluccensis*).
- 4 Axis Deer (*Cervus axis*).
- 1 Mesopotamian Fallow Deer (*Dama mesopotamica*).
- 1 Three-quarter-bred Mesopotamian Fallow Deer. (Bred between a hybrid female *Dama mesopotamica* and *Dama vulgaris*, and a male *Dama mesopotamica*.)
- 1 Virginian Deer (*Cariacus virginianus*).
- 2 Mule Deer (*Cariacus macrotis*).
- 3 Pygmy Hogs (*Porcula salvania*).
- 2 Vulpine Phalangers (*Phalangista vulpina*).
- 2 Squirrel-like Phalangers (*Belideus sciureus*).
- 1 Bennett's Wallaby (*Halmaturus bennetti*).

#### BIRDS.

- 2 Northern Mocking Birds (*Mimus polyglottus*).
- 4 Snow-Birds (*Junco hyemalis*).
- 4 Upland Geese (*Bernicla magellanica*).
- 3 Black Swans (*Cygnus atratus*).
- 1 Variegated Sheldrake (*Tadorna variegata*).
- 4 Wild Ducks (*Anas boschas*).
- 7 Australian Wild Ducks (*Anas superciliosa*).
- 4 Chilian Pintails (*Dafila spinicauda*).
- 1 Chiloe Wigeon (*Mareca chiloensis*).
- 7 Mandarin Ducks (*Æx galericulata*).
- 3 Red-crested Whistling Ducks (*Fuligula rufina*).
- 2 Triangular Spotted Pigeons (*Columba guinea*).
- 1 Barred-shouldered Dove (*Geopelia humeralis*).
- 1 Common Crowned Pigeon (*Goura coronata*).
- 1 Herring-Gull (*Larus argentatus*).

#### REPTILES.

- 49 Striped Snakes (*Tropidonotus sirtalis*).
- 5 Common Vipers (*Vipera berus*).
- 20 Spotted Salamanders (*Salamandra maculosa*).
- 30 Pleurodele Newts (*Molge walti*).



d. *List of Donors and their Donations for the  
year 1885.*

- H.R.H. The Prince of Wales, K.G.  
Two Rhesus Monkeys, two Grey-breasted Parrakeets.
- H.R.H. Prince Albert Victor of Wales.  
One West-Indian Agouti.
- H.R.H. Prince Frederick George of Wales.  
One West-Indian Agouti.
- H.R.H. The Duke of Edinburgh, K.G.  
One Mouflon.
- Abbott, Mrs.  
One Alexandrine Parrakeet.
- Abrahams, Mr. J.  
One Narrow-barred Finch, two St. Helena Seed-eaters, one Grey-necked Serin Finch, one Brown Canary Finch, two Yellowish Finches, one Russ's Weaver-bird.
- Abrahams, P. S., Esq., F.R.C.S.I.  
Two Short-headed Phalangers.
- Alldrige, T. J., Esq., F.Z.S.  
One Serval, one African Civet Cat.
- Allen, F., Esq.  
One Long-eared Owl.
- Allen, Mr.  
One Common Boa.
- Allison, Mrs.  
One Barbary Ape.
- Allpress, F. J., Esq.  
One Common Hare.
- Angel, M. C., Esq., F.Z.S.  
Three Young Green Turtle.
- Appleton, Mrs. A.  
One Coypu.
- Arauz, Mons. Rodolfo.  
One Puma.
- Archer, H., Esq.  
One Gannet.
- Arkwright, W., Esq., F.Z.S.  
Four Black Water-Voles.
- Astley, H. D., Esq., F.Z.S.  
One Chattering Lory.
- Barnes, G. C., Esq.  
One Vervet Monkey.



- Bartlett, Mr. A. D.  
One Common Toad.
- Bath, The Marquis of, F.Z.S.  
Two Sly Siluri.
- Bauer, Dr. F. H., C.M.Z.S.  
One Common Paradoxure, two Javan Cats, one Bay Wood-Owl, one Oriental Eagle-Owl, two Guttural Lizards, two Mutilated Geckos, one Grass-Green Tree-Snake, three Spotted Tree-Frogs.
- Baxter, J. G., Esq.  
One Grey Ichneumon.  
One Vulpine Phalanger.
- Bedford, Miss.  
One Barbary Ape.
- Bellamy, A., Esq.  
Two Three-striped Squirrels.
- Berens, Mrs.  
One Macaque Monkey.
- Berry, Mrs.  
One Rhesus Monkey.
- Berthould, A. H., Esq.  
One Royal Python.
- Best, A., Esq.  
One Blau-bok.
- Blair, Mrs.  
One Ruddy Ground-Squirrel.
- Blake, Mrs.  
Two Martinican Doves.
- Bland, F., Esq.  
Two Common Chameleons.
- Boon, Dr. A., F.R.C.S.  
Eleven Martinican Doves, four Moustache Ground-Doves, ten Dominican Kestrels, one Violaceous Night-Heron, two Virginian Colins, two Green Bitterns, six Dominican Kestrels, one White-eyed Mock Thrush, one Tuberculated Iguana.
- Boutcher, Wm., Esq.  
One Red-billed Duck.
- Bovill, Miss Maude.  
One Tennent's Squirrel.
- Bowyer-Bower, T. H., Esq., F.Z.S.  
One Vinous Fruit-Pigeon, one Pacific Fruit-Pigeon, one Australian Cassowary.



- Bradley, J., Jun., Esq.  
One Raven.
- Brassey, Lady, F.Z.S.  
Two Common Foxes.
- Brassey, Miss Mary Adelaide.  
Two Laughing Kingfishers.
- Brassey, Miss Muriel Agnes.  
Two Hooded Crows.
- Bratton, Mrs. A.  
Two European Tree-Frogs.
- Brown, Mr. A. R.  
One Macaque Monkey.
- Brown, C. G., Esq., M.R.C.S.  
One Sharp-nosed Crocodile.
- Buckley, W., Esq.  
One Common Polecat.
- Buist, Miss.  
Two Grey-breasted Parrakeets.
- Buller, Col. E. M. M.  
Two Common Badgers.
- Buller, W. L., Esq., C.M.Z.S.  
Two Tuatera Lizards.
- Bulwer, Sir Henry E., G.C.M.G.  
Two Cape Crowned Cranes.
- Burrows, W. G., Esq.  
Two Indian Cobras.
- Cambridge, the Rev. O. P., C.M.Z.S.  
One Smooth Snake.
- Canfor, C., Esq.  
One Macaque Monkey.
- Carder, J., Esq.  
One Kinkajou.
- Carnegie, Mrs. M. Strachan.  
One Bonnet Monkey, one Macaque Monkey.
- Carpenter, E. G., Esq.  
Two Great Eagle-Owls.
- Cater, J. S., Esq.  
One Persian Gazelle.
- Cavell, Mrs. Strutt.  
One Slender-billed Cockatoo.
- Charsley, Miss F. A.  
One White-backed Piping Crow.
- Chittenden, J. F., Esq., M.R.C.S., C.M.Z.S.  
Twelve Cascaduras.



- Church-Dixon, J., Esq.  
One Pig-tailed Monkey, one Macaque Monkey, one  
Vulpine Phalanger.
- Clare, Mr. H.  
One Common Magpie.
- Clark, Montague C., Esq.  
One Malbrouck Monkey.
- Clark, Mr. W. P.  
One Barn Owl.
- Clift, Mr. W. E.  
One Malbrouck Monkey.
- Clifton, Charles, Esq., F.Z.S.  
Three Siamese Blue Pies, one Chinese Jay Thrush,  
one Brazilian Hangnest, one Hunting Crow, one Poë  
Honey-eater.
- Coleman, Miss.  
Two Java Sparrows.
- Coles, S. G., Esq.  
One Macaque Monkey.
- Collins, Cromwell, Esq.  
One Cuvier's Podargus.
- Colliver, G. V., Esq.  
One Green Lizard.
- Constable, J., Esq.  
One Levillant's Cynictis, one Suricate.
- Conyngham, Miss Lenox.  
One Æsculapian Snake.
- Cook, John M., Esq., F.Z.S.  
Four Proteus.
- Cook, W., Esq.  
One Getulian Ground-Squirrel.
- Cooper, Mrs.  
One Bonnet-Monkey.
- Cornély, Mons. J. M., C.M.Z.S.  
Two Eyed Lizards, one Hybrid Ruddy Sheldrake,  
one Hybrid Pochard.
- Cornet, A., Esq.  
One Macaque Monkey.
- Cotton, Masters W. B. and A. S.  
One Common Lizard.
- Courage, Mrs.  
One Common Peafowl.
- Cowley, The Countess.  
One Common Marmoset.



- Crawley, G. A., Esq.  
One Galeated Curassow.
- Cree, H. E., Esq.  
One Nilotic Crocodile.
- Crisp, Geo., Esq.  
One Vervet Monkey, two Long-eared Owls, one Tawny Owl.
- Czarnikow, C., Esq., F.Z.S.  
One Great Kangaroo, one Roan Kangaroo, one Rufous Rat-Kangaroo.
- Daly, R. Forrester, Esq.  
One Collared Peccary.
- Dart, Master C. G.  
One Common Chameleon.
- Davis, Col. Howell.  
Two Common Marmosets.
- Debenham, F., Esq.  
One Macaque Monkey.
- Denny, H., Esq.  
One Egyptian Monitor.
- Devonshire, The Duke of, K.G., F.Z.S.  
One Common Badger.
- Dickson, W. E. R., Esq.  
Two Black-bellied Sand-Grouse, two Bonham's Partridges.
- Doran, Alban, Esq., F.R.C.S.  
One Sly Silurus, one Thunder-fish, one Barbet, one Ground-Loach, one River-Bullhead.
- Douglas, Mrs.  
One Ring-necked Parrakeet.
- Dudley, Cecil, Esq.  
Two White-faced Tree-Ducks.
- Dundas, Mrs.  
One Grey Ichneumon.
- East, Mrs.  
One Malbrouck Monkey.
- Edmonds, Mr. F. J.  
One Rhesus Monkey.
- Edson, G., Esq.  
One Glaucous Gull.
- Edwards-Moss, T. C., Esq.  
Four Demararan Cocks of the Rock, one Squirrel-Monkey.
- Egerton of Tatton, The Lord, F.Z.S.  
One Common Badger.



- Elliott, F. W., Esq.  
One Common Viper.
- Ellis, Miss Margaret.  
One Rhesus Monkey.
- Erskine, Capt. J. E., R.N.  
One Emu.<sup>a</sup>
- Essex Regiment, Officers of the 1st Battalion.  
One Sambur Deer.
- Eyre, H. S., Esq.  
One Crossbill.
- Farren, R., Esq.  
One Long-eared Owl.
- Fayrer, Sir Joseph, K.C.S.I., F.Z.S.  
Two Hybrid Ruddy Sheldrakes.
- Feilden, Major H. W., C.M.Z.S.  
One Pink-footed Goose.
- Fellows, The Rev. Spencer.  
One Macaque Monkey.
- Fielding, J. H., Esq.  
One Rhesus Monkey,
- Fisk, The Rev. G. H. R., C.M.Z.S.  
Eight Robben-Island Snakes, one Aurora Snake, six  
Hoary Snakes, one Hygian Snake, seven Geometric  
Tortoises, one Reddish Pentonyx, one Rufescent  
Snake, one Keeled Euprepes, five Rough-scaled  
Zonures, two Millipedes, ten Angulated Tortoises,  
one Many-spotted Snake, one Areolated Tortoise,  
one Blackish Sternothera.
- Fleming, Mr. James.  
One Macaque Monkey.
- Flower, Stanley S., Esq.  
One Common Lizard.
- Franks, Capt. T. H.  
One Javan Cat.
- Fraser, A. D., Esq.  
One Loggerhead Turtle.
- Fraser, J. C., Esq.  
Two West-Indian Rails.
- Frodsham, F. L., Esq.  
One Cereopsis Goose, one Black Swan.
- Gibson, J. W., Esq.  
Two Mute Swans.
- Giglioli, Prof. H. H., C.M.Z.S.  
Twelve Spectacled Salamanders.



- Gissing, Comm. C.-E., R.N.  
Four Pucheran's Guinea-fowls.
- Gorton, J., Esq.  
One Cape Buffalo.
- Graham, Miss L. M.  
Two Black-eared Marmosets.
- Graham, W., Esq., F.Z.S.  
One Manx Shearwater.
- Grant, H., Esq.  
One Leadbeater's Cockatoo.
- Graves, Major Frank (20th Hussars).  
One Common Camel.
- Greathead, E., Esq.  
One Purple-faced Monkey.
- Greeven, Master C. A.  
One Horned Lizard.
- Griffith, T. Risely, Esq.  
One Sooty Mangabey.
- Gunn, Mr. T. E.  
Eleven Bramblings, two Chaffinches, two Tree-Sparrows, one Black-headed Bunting, two Siskins, one Reed-Bunting, eight Lesser Redpolls, two Common Kestrels, two Common Hedgehogs, one Common Viper.
- Gunter, R., Esq.  
One Common Slow-worm.
- Guy, F. J., Esq.  
Two West-Indian Agoutis, seven Crab-eating Opossums, two Rough Terrapins, two Brazilian Tortoises, two Teguxin Lizards, two Tuberculated Iguanas, nine Giant Toads, two Slow-worms.
- Hall, Mr. T. W.  
One Macaque Monkey.
- Hamilton, Miss Payne.  
One Macaque Monkey.
- Hammond, F. J. Esq.  
One Humboldt's Lagothrix.
- Hanauer, Mr. H.  
One Common Stoat, four Common Lizards.
- Hanrott, Master C.  
One Common Hedgehog.
- Hare, Mr. J.  
Two Turtle-Doves.
- Harrison, J., Esq.  
One Crested Pigeon.



- 32 Hassim Ali Khan, The Nawab Mirza.  
 One Cheetah.  
 Hawes, Capt. A. B.  
 One Barbary Ape.  
 Hawtayne, G. H., Esq., C.M.Z.S.  
 One Anaconda, three Rufous-vented Guans.  
 Hay, Mr. W.  
 One Alexandrine Parrakeet.  
 Haynes, T. H., Esq.  
 One Binturong.  
 Heimlicher, Miss.  
 One Alligator.  
 Henderson, Miss.  
 One Common Marmoset.  
 Heseltine, C., Esq.  
 One Common Fox.  
 Hillier, J., Esq.  
 One Tawny Owl.  
 Hodder, W., Esq.  
 One Mealy Amazon.  
 Hodges, Mrs. Henrietta.  
 One Leopard Tortoise.  
 Hodgson, Miss.  
 One Green Monkey.  
 Holden, C. W., Esq.  
 One Yellow-footed Rock-Kangaroo.  
 Holdsworth, Walter, Esq.  
 Two Brown Bears.  
 Hope, Mr. W.  
 One Levaillant's Cynictis.  
 Hopwood, C. H., Esq., Q.C.  
 Two Common Guinea-fowls.  
 Hubback, T. C. C., Esq.  
 One Booted Eagle.  
 Hubbard, Evelyn, Esq.  
 One Moose.  
 Hudson, Thompson, Esq.  
 Two Larger Hill-Mynahs.  
 Humphries, Mr.  
 One Black-headed Gull.  
 Hunt, Col. E. D.  
 One Golden Eagle.  
 Hyrzan, Miss.  
 One Red-crested Cardinal.



- Isaacson, R. E. Wootton, Esq.  
One Black Wallaby.
- Jameson, J. S., Esq.  
One Lesser White-nosed Monkey.
- Jamrach, Mrs. A. H.  
Seven Striped Snakes.
- Jamrach, Mr. W.  
Six Indian Fruit-Bats.
- Janin, Mrs.  
One Silver Pheasant.
- Johnson, Cuthbert, Esq.  
One Common Badger, one Nightjar.
- Jones, R. J., Esq.  
One Chilian Sea-Eagle.
- Keilich, Mr. H.  
One American Robin.
- Kensington, the Lady.  
One Blue-fronted Amazon.
- Knowles, Miss.  
One Common Marmoset.
- Kühne, Mrs. Herman.  
Four Red-faced Weaver-birds, one Grenadier Weaver-bird.
- Laidlaw, Miss.  
One Rufous Rat-Kangaroo.
- Laing, Warrington, Esq.  
One Indian Python.
- Lambert, F. D., Jun., Esq.  
One African Wild Ass.
- Lampard, Miss G.  
One Larger Hill-Mynah.
- Lee, H., Esq.  
Two Tawny Owls.
- Leech, J. H., Esq., F.Z.S.  
One Scops Owl.
- Leech, —, Esq.  
One Wiegmann's Amphisbæna.
- Le Sueur, Mr. T.  
One Mitred Guinea-fowl.
- Lewis, Rev. W. G.  
One Raven.
- Lyon, G. Leith, Esq.  
One Cuckoo.
- Lyster, Miss.  
One Campbell's Monkey.



- McArthur, Miss Lucy.  
One Macaque Monkey.
- M<sup>c</sup>Cowans, A. J., Esq.  
Two Macaque Monkeys.
- M<sup>c</sup>Ilwraith, A., Esq., F.Z.S.  
One Great Kangaroo.
- M<sup>c</sup>Niven, C. T., Esq.  
Three Wild Ducks.
- Malony, C. A., Esq., C.M.G.  
One African Lepidosiren.
- Marriott, C. A., Esq.  
Two Rooks, one Kestrel.
- Marshall, E. Luxmore, Esq.  
One White-fronted Capuchin Monkey.
- Marsham, C. A. O., Esq.  
One Greater Sulphur-crested Cockatoo.
- Marton, G. B. H., Esq.  
One Mexican Deer.
- Mathews, Mrs. E. C.  
One Indian Kite.
- Merriam, Dr. C. Hart, C.M.Z.S.  
Two Canadian Skunks.
- Middleton, Cuthbert D., Esq.  
Two Golden-crowned Conures.
- Morgan, Mrs.  
One Ring-necked Parrakeet.
- Morgan, Capt.  
One Osprey.
- Morgan, Dr. L.  
One Common Marmoset.
- Mosely, F. S., Esq., F.Z.S.  
Two Common Gulls, two Black-headed Gulls.
- Murphy, Mr. John.  
One Indian Crocodile.
- Murray, Mrs. A.  
One Macaque Monkey.
- Murray, R. W., Esq.  
One Brown Hyæna.
- Napier, Master Charles E.  
Two Crowned Horned Lizards.
- National Fish Culture Association.  
Two Cat-fish, one Common Seal.
- Newenham, E. North, Esq.  
Two Madagascar Porphyrios.



- Nicholls, C. Kerry, Esq., F.Z.S.  
One Alexandrine Parrakeet.
- Nicholson, A. H., Esq.  
One Yellow Conure.
- Norris, Major.  
One Purple-faced Monkey.
- Northesk, The Earl of.  
Two Emus.
- Nujac, Madlle. de.  
One Undulated Grass Parrakeet.
- Ockey, W., Esq.  
One Vervet Monkey.
- O'Donaghue, Miss Ethel.  
One Malbrouck Monkey.
- O'Halloran, J. C., Esq.  
One Bonnet-Monkey.
- Oldfield, G. W., Esq., F.Z.S.  
Two Harvest-Mice.
- Oliver, Lieut. A. H., R.N.  
One Palm-Squirrel.
- Ostle, Mr. W.  
One Barn-Owl.
- Pain, W. H. B., Esq.  
Two Smooth Snakes, five Common Vipers.
- Parke, C. Ethelston, Esq.  
One Common Badger.
- Parker, Prof. T. Jeffery, C.M.Z.S.  
Two Tuatera Lizards.
- Parr, B. C., Esq.  
One Vulpine Phalanger.
- Paterson, Mrs.  
One Macaque Monkey.
- Patton, John, Esq.  
One Arabian Gazelle.
- Paul, Messrs., & Co.  
One hundred Golden Carp.
- Peers, Miss.  
One Erxleben's Monkey.
- Phelps, Sackville, Esq.  
One Common Otter.
- Phillips, L. C., Esq.  
One Bonnet-Monkey.
- Phillips, Mr.  
One Tawny Owl.



- Pilditch, Mr. E.  
One Rhesus Monkey.
- Potter, S. T. H. D., Esq.  
One Green Monkey.
- Pratt, John, Esq., F.Z.S.  
One Greater Black-backed Gull.
- Priestley, A. Browning, Esq.  
One Carrion Crow.
- Proger, T. W., Esq.  
One Common Badger.
- Purchas, J. W. Beswick, Esq.  
One Red-and-Blue Macaw.
- Raven, Miss Linder.  
One Common Barn-Owl.
- Reinhold, Miss.  
Two Turtle-Doves.
- Ridley, Chas., Esq.  
Two Alligators.
- Robbins, Capt. H. E.  
One Short-toed Eagle.
- Robinson, Lady  
One Crested Black Eagle.
- Robinson, Sir W. C. F., K.C.M.G.  
Two Spotted-tailed Dasyures, three Short-headed  
Phalangers.
- Robinson, F. W., Esq.  
One Green Monkey.
- Robinson, Master J. C.  
One Ring-tailed Coati.
- Robson, J., Esq.  
One Black-backed Jackal.
- Rodger, Miss Ethel.  
One Pig-tailed Monkey.
- Rogers, T. A., Esq.  
One Grey Parrot.
- Rosenfeld, C. N., Esq.  
Two Gouldian Grass-Finches.
- Rosling, E., Esq.  
One Bank Vole.
- Rothschild, Baron Ferdinand de, M.P., F.Z.S.  
One Prairie Wolf.
- Rowland, Miss.  
One Common Peafowl.
- Rowles, George, Esq.  
One Chinese Mynah.



- Russell, C. E., Esq.  
One Common Badger.
- St. Quintin, W. H., Esq.  
Two Goshawks.
- Salar Jungh Bahadur, The Nawab.  
Two Tigers.
- Salvin, Capt. F. H.  
One Common Heron, one Shag.
- Sanders, H., Esq.  
Two Narrow-barred Finches, one Indian Silver-bill  
Finch, one Amaduvade Finch.
- Sanford, W. Ayshford, Esq., F.Z.S.  
One Vulturine Eagle, one Black-eyebrowed Albatross,  
one Sharp-headed Lizard.
- Saunders, Mr. A.  
One American Robin.
- Savill, Miss F. M.  
One Suricate.
- Schufeldt, Dr. R. W.  
Two Douglass's Horned Lizards.
- Sharp, Frank, Esq.  
One Pine Marten.
- Shaw, Surg.-Major J. A.  
Two Field Gerbilles.
- Sibbald, R. F., Esq.  
One Lacertine Snake.
- Simpson, Miss.  
One Horned Lizard.
- Sinclair, Mrs. A.  
One Weeper Capuchin.
- Skegg, Mr. G.  
One Crossbill.
- Skelding, J., Esq.  
One Dwarf Common Ass.
- Sloper, G., Esq.  
One Raven.
- Smallman, Mr. C.  
One Common Viper.
- Smidt, Mr. J.  
One Macaque Monkey.
- Smith, A. G., Esq.  
One Emu.
- Smith, Mrs. G. A.  
One Common Squirrel.



- Smith, Lieut.-Col. G. D.  
One Cerastes Viper.
- Smith, Mr. S.  
One Toque Monkey.
- Snelgrove, H. J., Esq.  
Two Partridges.
- Sotheran, Mrs. Henry.  
One Short-toed Eagle.
- Spalding, Mr. R. B.  
One Cuckoo.
- Stevens, J. S., Esq.  
One Bonnet-Monkey.
- Stuart, Dr.  
One Mexican Souslik.
- Sturt, Col. C. S., C.M.Z.S.  
Two Bandicoot Rats.
- Swettenham, Frank, Esq.  
Two Javan Cats, one Marbled Cat.
- Talbot, Capt. J. S., 1st Shrop. Light Infantry.  
Two Pale Fennec Foxes.
- Tarratt, Mrs. D. Fox.  
One Barbary Ape.
- Taylor, J. G., Esq.  
One Herring-Gull.
- Taylor, Capt. W. R.  
One Bonelli's Eagle.
- Tennent-Tennent, H., Esq.  
One White-tailed Eagle.
- Thimbleby, H. J., Esq.  
One Macaque Monkey.
- Thomas, Mrs.  
One Bonnet-Monkey.
- Thompson, F. J., Esq.  
Four Hog-nosed Snakes, two Alleghany Snakes, one  
American Black Snake, one Say's Snake, two Wood  
Hares, one American Badger.
- Tunnard, Lieut. W. F., R.N.  
One Ring-tailed Coati.
- Urquhart, Mrs.  
One Pig-tailed Monkey.
- Vaill, Capt. E. E.  
Two Vulpine Squirrels.
- Wainewright, Miss.  
One Undulated Grass-Parrakeet.



- Waite, Mrs. S.  
One Red-throated Amazon.
- Wall, Mrs.  
One Green Monkey.
- Walsh, Theo., Esq.  
Two Pileated Jays.
- Ward, J., Esq.  
One Cockateel.
- Watson, Mrs. E. H.  
One Slender-billed Cockatoo.
- Weaver, H. E., Esq.  
One Red Brocket.
- Webb, Mr. G. S.  
One Martinique Gallinule.
- Weddle, Thomas, Esq.  
Four Common Squirrels, six Common Dormice.
- Weldon, Rev. E.  
Three Razorbills, eight Puffins.
- Wertheimer, Chas. J., Esq., F.Z.S.  
One Golden Eagle.
- White, Mrs.  
One Mona Monkey.
- Wilkins, R., Esq.  
Two Spotted Ichneumons.
- Williams, Mrs. Chas.  
One Alexandrine Parrakeet.
- Williams, C. R. Esq.  
One Bosman's Potto.
- Williams, Miss H.  
One Common Rabbit.
- Willoughby de Broke, Lord.  
Two Common Badgers.
- Wills, G. T., Esq.  
One Yellow-footed Rock-Kangaroo, one Wedge-tailed Eagle.
- Wilson, Mrs.  
One Yellow Baboon.
- Wilson, Scott B., Esq.  
One Long-eared Owl, one Common Kestrel, one Common Buzzard.
- Witte, J. G., Esq.  
Two Horned Lizards.
- Wulff, Alexander, Esq.  
One Black Stork.



Wünsch, J. R., Esq.

One Greater Sulphur-crested Cockatoo.

Wyllie, J. G., Esq.

One Red Kangaroo.

Yerbury, Major J. W., R.A.

One Spurred Chameleon.

*Conclusion.*

The Council cannot conclude their Report without acknowledging the assistance they have received from the Committee of Publication, upon whom is devolved, in accordance with the By-Laws, the arrangement and supervision of the Society's Scientific Publications.

The Council have also to ask you to thank those Fellows of the Society who during the past year have audited the Accounts and served on the Finance Committee.

Although the past year has not been so favourable to the interests of the Society as those which have immediately preceded it, the Council have had the satisfaction of being able to meet the current expenditure, and at the same time to pay off £1000 of the debt remaining due on the freehold premises.

Signed (for the Council),

P. L. SCLATER,

*Secretary.*

3 Hanover Square, W., April 29th, 1886.



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

Appointed January 21, 1886.

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THE Committee of Auditors to the Society having fully examined the accounts, inspected the books, and seen vouchers for all the various payments ordered by the Council for the year ending December 31st, 1885, respectfully submit to the Society an abstract of the accounts, together with a statement of the Assets and Liabilities at the close of the year.



## RECEIPTS IN 1885.

					£ s. d.		
Balance brought from December 31, 1884 .....					1,247 10 2		
INCOME.							
		£ s. d.			£ s. d.		
1883	Garden Sales .....				15 0 0		
1884	{ Garden Sales .....	120 5 3					
	{ Rent for Refreshment Rooms .....	73 6 8					
	{ Rent for Freehold Premises.....	62 10 0					
	{ Admission Fees .....	70 0 0					
	{ Subscriptions .....	27 0 0					
	Publication Sales .....	153 13 5					
					506 15 4		
1885	{ Admissions to Gardens .....	14,891 6 6					
	{ Elephant and Camel Riding Receipts.	449 8 5					
	{ Garden Sales .....	445 12 8					
	{ Rent for Refreshment Rooms .....	1,028 0 0					
	{ Rent for Freehold Premises.....	191 5 0					
	{ Admission Fees .....	425 0 0					
	{ Compositions .....	630 0 0					
	{ Subscriptions .....	6,244 0 0					
	{ Ivory Tickets .....	18 18 0					
	{ Publication Subscriptions.....	538 13 0					
	{ Publication Sales .....	85 3 11					
	Dividends (Davis Trust) .....	73 17 3					
	Miscellaneous .....	101 16 0					
					25,123 0 9		
1886	{ Subscriptions .....	150 0 0					
	{ Ivory Tickets .....	1 1 0					
	{ Publication Subscriptions.....	13 13 0					
					164 14 0		
INCOME RECEIVED IN 1885 .....					25,809 10 1		
					25,809 10 1		
					27,057 0 3		



## PAYMENTS IN 1885.

EXPENDITURE.	Belonging to		Total.
	1884.	1885.	
	£ s. d.	£ s. d.	£ s. d.
Rent, Rates, Taxes, and Insurance..Gardens	168 5 1	956 0 3	1,124 5 4
Ditto ditto .....Office	37 9 3	156 15 8	194 4 11
Salaries, Wages, and Pensions ...Gardens	.....	3,779 8 6	3,779 8 6
Ditto ditto .....Office	.....	2,085 8 10	2,085 8 10
Provisions .....	282 12 11	3,966 12 1	4,249 5 0
Cost and Carriage of Animals .....	342 14 6	1,164 8 6	1,507 3 0
Menagerie Expenses .....	283 2 5	3,119 4 3	3,402 6 8
Keepers' Dresses.....	1 8 0	146 16 0	148 4 0
Works, Materials, &c. ....Gardens	320 17 3	2,522 17 5	2,843 14 8
Ditto ditto .....Office	13 11 5	4 19 5	18 10 10
Buildings .....Office	175 5 5	.....	175 5 5
Garden Expenses .....	14 3 0	772 3 2	786 6 2
Advertisements .....	37 8 10	198 17 5	236 6 3
Band Expenses .....	.....	234 6 0	234 6 0
House and Office Expenses.....Gardens	32 7 1	219 19 10	252 6 11
Ditto ditto .....Office	39 11 10	456 8 10	496 0 8
Stationery .....	10 4 0	56 1 5	66 5 5
Printing (Miscellaneous) .....	31 14 0	268 17 3	300 11 3
Cost of Publications .....	17 2 6	1,976 10 4	1,993 12 10
Library Expenses .....	146 7 3	530 11 10	676 19 1
Returned Subscriptions.....	.....	26 15 9	26 15 9
Expenditure of Davis Bequest.....	.....	79 8 0	79 8 0
Interest on Mortgage Debt .....	.....	407 16 8	407 16 8
EXPENDITURE PAID IN 1885 .....	1,954 4 9	23,130 7 5	25,084 12 2
Paid Messrs. Drummond on account of Mortgage Debt .....			1,000 0 0
Cash at the Banker's, December 31, 1885 :—			
General Account .....		£626 11 7	
Petty Cash Account .....		345 16 6	
			972 8 1
			<hr/>
			27,057 0 3



*Comparison of Receipts in 1884 and 1885.*

<i>Receipts.</i>				
	Income of		Increase.	Decrease.
	1884.	1885.		
	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Admissions to Gardens..	16,920 0 0	14,891 6 6	2,028 13 6	
Elephant and Camel riding receipts .....	418 17 3	449 8 5	30 11 2	
Garden Sales .....	466 2 6	580 17 11	114 15 5	
Rent for Refreshment Rooms .....	1,214 0 0	1,101 6 8	112 13 4	
Rent for Freehold Premises .....	135 15 0	253 15 0	118 0 0	
Admission Fees:—				
Past.....	100 0 0	70 0 0	30 0 0	
Present .....	760 0 0	425 0 0	335 0 0	
Annual Subscriptions:—				
Past.....	30 0 0	27 0 0	3 0 0	
Present .....	6,350 3 0	6,244 0 0	106 3 0	
Future .....	108 0 0	150 0 0	42 0 0	
Compositions .....	1,290 0 0	630 0 0	660 0 0	
Ivory Tickets .....	49 8 0	19 19 0	29 9 0	
Publications .....	770 7 0	791 3 4	20 16 4	
Dividends .....	177 4 7	73 17 3	103 7 4	
Miscellaneous.....	149 11 4	101 16 0	47 15 4	
	28,939 8 8	25,809 10 1	326 2 11	3,456 1 6
Decrease .....		3,129 18 7	Ded. Incr.	326 2 11
	28,939 8 8	28,939 8 8		3,129 18 7
<p>Total Receipts in 1885 ..... £25,809 10 1</p> <p>Total Payments in 1885..... 25,084 12 2</p> <hr style="width: 20%; margin: auto;"/> <p>Receipts over Payments ..... 724 17 11</p>				
<i>Dr. Cash</i>				
				£ s. d.
To Balance brought from December 31, 1884 .....				1,247 10 2
To Income received in 1885 .....				25,809 10 1
				27,057 0 3



*Comparison of Payments in 1884 and 1885.*

<i>Payments.</i>						
	Expenditure of		Increase.	Decrease.		
	1884.	1885.			£ s. d.	£ s. d.
	£	s. d.	£	s. d.	£	s. d.
Arrears of previous years . . . .	4,479	0 1	1,954	4 9	2,524	15 4
Rent, Rates, Taxes, and Insurance . . . . .	1,400	13 5	1,112	15 11	287	17 6
Salaries, Wages, and Pensions . . . . .	5,918	5 2	5,864	17 4	53	7 10
Provisions . . . . .	4,338	10 5	3,966	12 1	371	18 4
Cost and Carriage of Animals	1,424	3 6	1,164	8 6	259	15 0
Menagerie Expenses . . . . .	3,118	19 7	3,119	4 3	0	4 8
Keepers' Dresses . . . . .	157	17 0	146	16 0	11	1 0
Works, Materials, &c. . . . .	2,667	18 2	2,527	16 10	140	1 4
Buildings, Office . . . . .	4,766	14 1	4,766	14 1	4,766	14 1
Garden Expenses . . . . .	960	3 8	772	3 2	188	0 6
Advertisements . . . . .	210	18 1	198	17 5	12	0 8
Band Expenses . . . . .	213	0 0	234	6 0	21	6 0
House and Office Expenses . . . . .	803	19 4	676	8 8	127	10 8
Stationery and Account Books	64	9 9	56	1 5	8	8 4
Printing (Miscellaneous) . . . . .	475	11 0	268	17 3	206	13 9
Publications . . . . .	1,597	2 3	1,976	10 4	379	8 1
Library Expenses . . . . .	674	2 5	530	11 10	143	10 7
Returned Subscriptions . . . . .	34	10 6	26	15 9	7	14 9
Cost of Silver Medal . . . . .	4	18 6	4	18 6	4	18 6
Law Expenses . . . . .	3	13 6	3	13 6	3	13 6
Zoological Lectures (Davis Bequest) . . . . .	81	18 0	79	8 0	2	10 0
Interest on Mortgage-debt . . . . .	449	10 0	407	16 8	41	13 4
	33,845	18 5	25,084	12 2	400	18 9
Decrease . . . . .	33,845	18 5	8,761	6 3	Ded. Incr.	400 18 9
	33,845	18 5	33,845	18 5	8,761	6 3
Ordinary Payments . . . . .	26,539	4 1	24,593	11 8	1,945	12 5
Extraordinary ditto . . . . .	7,306	14 4	491	0 6	6,815	13 10
	33,845	18 5	25,084	12 2	8,761	6 3

  

<i>Contra</i>	<i>Cr.</i>
	£ s. d.
By Expenditure paid in the year . . . . .	25,084 12 2
By Repayment of Mortgage-debt . . . . .	1,000 0 0
By Balance at the Bankers, December 31, 1885 . . . . .	972 8 1
	27,057 0 3



*Assets and Liabilities of the Society on December 31, 1885.*

## ASSETS.

	£	s.	d.
Animals in the Menagerie in the Regent's Park .....	21,630	0	0
Books in the Library at Hanover Square .....	12,884	0	0
Unsold Publications .....	2,500	0	0
Freehold Premises .....	25,000	0	0
Cost of £1,900 London and South-Western Railway New 4 per cent. Preference Stock (Davis Trust Fund) .....	1,938	9	6
Cash at the Bankers (Messrs. Drummond) .....	972	8	1
Arrears considered good:—	£	s.	d.
Annual Subscriptions .....	82	0	0
Ivory Tickets .....	4	4	0
Publication Sales .....	115	7	6
Garden Sales .....	139	18	3
Rent for Refreshment Rooms .....	35	13	4
Rent for Freehold Premises .....	63	15	0
	<hr/>		
		440	18 1
	<hr/>		
	£65,365 15 8		
	<hr/> <hr/>		

## LIABILITIES.

	£	s.	d.	£	s.	d.
Rent and Taxes unpaid:—						
For the Gardens, say .....	404	19	7			
,, Office, say .....	50	10	3			
	<hr/>			455	9	10
Bills, &c., estimated at:—						
For the Gardens, say .....	928	8	0			
,, Office, say .....	610	3	11			
	<hr/>			1,538	11	11
Messrs. Drummond, Mortgage Debt .....				10,000	0	0
	<hr/>			£11,994	1	9
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In submitting the foregoing balance-sheet, abstracts of accounts, and statements of assets and liabilities, the Auditors desire to express their entire satisfaction with the excellent manner in which the Society's Books are kept by Mr. Barrow, the Society's Accountant.

JOHN ANDERSON.  
PHILIP J. BUTLER.  
HERBERT DRUCE.  
CHARLES H. GATTY.  
JAMES H. LANG.  
HENRY H. SLATER.  
JOHN T. TAYLOR.

*3 Hanover Square, W.*

*February 25, 1886.*