

REPORT
OF THE
COUNCIL
OF THE
ZOOLOGICAL SOCIETY
OF LONDON,
FOR THE YEAR 1881.

READ AT THE ANNUAL GENERAL MEETING,

APRIL 29TH, 1882.

LONDON:
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1882.

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REPORT OF THE COUNCIL.

April 29, 1882.

THE Council have the pleasure of submitting to the Fellows their fifty-third 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 1881 amounted to 3213. Of these there were:—

Compounders who have paid £20	42
Ditto ditto £30	854
Compositions remitted	18
Paying annual contributions of £2	50
Ditto ditto £3	2094
Dormant	123
Admission-fees unpaid	32
	<hr/>
	3213

The state of the Society during the past Ten years, as regards the number of its Ordinary Members, is given in 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 Re-admitted.	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 re-mitted	£2.	£3.	£2.	£3.		£2.	£3.			
1872.	185	5	7	2	11	38	2	40	1	...	62	14	182	3050
1873.	216	5	7	...	6	38	...	34	...	...	2	1	93	3173
1874.	221	7	6	1	8	60	...	33	...	...	74	8	197	3197
1875.	180	8	16	...	8	57	...	36	...	...	...	11	136	3241
1876.	224	9	28	...	4	63	...	49	1	...	...	...	154	3311
1877.	228	3	23	...	9	63	...	20	...	...	58	6	182	3358
1878.	176	6	12	...	5	52	1	40	1	...	...	1	118	3416
1879.	145	9	17	...	7	46	...	54	...	...	50	6	189	3364
1880.	153	4	18	1	4	65	...	74	...	...	38	4	208	3309
1881.	138	24	31	...	5	78	...	65	3	1	27	...	234	3213

The decrease of 96 in the number of Fellows which has taken place since the last Anniversary is partly due to the removal from the list by the Council of the names of 27 Compounders, whose addresses had been unascertainable for ten years and upwards.

b. Corresponding Members.

The following Corresponding Members were elected during the year 1881 to fill vacancies in the list:—

Dr. Anton Dohrn, of the Zoological Station, Naples.

Henry Matthew Clark, Esq. (re-admitted).

Dr. Hans Gadow.

Mons. G. A. Boulenger, of the Royal Museum, Brussels.

Professor Wilhelm Blasius, of Brunswick.

Dr. A. A. W. Hubrecht, of the Leyden Museum.

Professor Othniel C. Marsh, of Yale College, New Haven, Connecticut, U.S.A.

2. STATE OF THE FINANCES.

a. Income.

The Income of the Society for 1881 shows a slight decrease as compared with that of the previous year, having

been only £25,810 (omitting fractions) as compared with £27,388 for 1880. The principal head of decrease (£672) is, as will be seen by the subjoined Table, the Garden-receipts, which in ordinary years always vary with the state of the weather. In the summer of 1881 this was unusually unfavourable. The decrease under the head of Compositions (£420) is also easily accounted for by the pressure on possessors of landed property which continued to prevail throughout the year. As regards the decrease under the head of Miscellaneous receipts, it should be noted that in 1880 this head of income was increased to an abnormal amount by Mr. Gatty's liberal donation of the sum expended on the Band-stand (£329 1s. 10d.).

Comparison of Receipts in 1880 and 1881.

	Income of		Increase.	Decrease.
	1880.	1881.		
Admission Fees:—	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Past	90 0 0	90 0 0		
Present	615 5 0	510 0 0		105 5 0
Annual Subscriptions:—				
Past	63 0 0	93 0 0	30 0 0	
Present	6,508 8 0	6,328 13 0		179 15 0
Future	138 3 0	114 0 0		24 3 0
Compositions	1,020 0 0	600 0 0		420 0 0
Ivory Tickets	39 18 0	38 7 0		1 11 0
Admissions to Gardens	15,786 12 0	15,113 17 6		672 14 6
Garden Sales.....	329 10 3	462 13 3	133 3 0	
Rent for Refreshment-rooms ...	1,107 0 0	1,084 6 8		22 13 4
Rent for Premises in Oxford Street.....	300 0 0	200 0 0		
Publications	975 11 4	981 11 4	6 0 0	
Dividends	74 6 9	74 3 7		0 3 2
Miscellaneous	340 5 11	20 2 6		320 3 5
	27,388 0 3	25,810 14 10	169 3 0	1,746 8 5
Decrease		1,577 5 5	Ded. Incr.	169 3 0
	27,388 0 3	27,388 0 3		1,577 5 5

The balance carried forward from 1880 was £879 14s. 2d., besides which two short temporary loans of £200 and £1000 (since repaid) were borrowed of the Society's Bankers in November and December last. Adding these three sums to the Income received in 1881 (£25,810 14s. 10d.) we find a total amount of £27,890 9s. 0d. available for the expenditure of the year.

b. Expenditure.

This amount was disposed of in the following manner:—

The sum of £24,651 4s. 3d. was required for the ordinary expenditure of the year. The extraordinary expenditure during the same period amounted to £1036 1s. 5d. The sum of £1000 was paid to Messrs. Drummond on account of their mortgage on the Society's House and Premises. This left a balance at the Society's Bankers, on the 31st of December last, of £1203 3s. 4d., which was carried forward for the benefit of the present year.

The subjoined Table contains the payments made in 1881 and the comparative amounts paid in 1880. The Council may point out that the total expenditure was less than the total Income by £123.

Comparison of Payments in 1880 and 1881.

	Expenditure of		Increase.	Decrease.
	1880.	1881.		
	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Arrears of previous years	2,124 8 6	2,153 6 7	28 18 1	.....
Rent, Rates, Taxes, and Insurance	857 5 4	900 5 0	42 19 8	.....
Salaries, Wages, and Pensions...	5,160 1 2	5,262 8 10	102 7 8	.....
Cost and Carriage of Animals ...	1,494 14 5	867 5 6	.....	627 8 11
Provisions	4,676 13 4	4,627 14 5	.....	48 18 11
Menagerie Expenses	2,808 17 6	3,193 10 0	384 12 6	.....
Keepers' Dresses	144 12 0	154 12 0	10 0 0	.....
Works, Repairs, and Materials .	3,922 0 11	2,967 12 4	.....	954 8 7
Garden Expenses.....	792 18 0	886 6 10	93 8 10	.....
Advertisements.....	213 18 11	200 11 5	.....	13 7 6
Band Expenses.....	223 4 0	221 8 0	.....	1 16 0
House and Office Expenses	641 5 0	611 17 7	.....	29 7 5
Stationery and Account Books...	170 16 2	64 11 11	.....	6 4 3
Printing (Miscellaneous)	397 4 3	370 11 6	.....	26 12 9
Publications	1,835 10 11	2,355 14 10	520 3 11	.....
Library Expenses.....	664 7 7	422 9 2	.....	241 18 5
Returned Subscriptions	114 15 0	26 7 0	.....	88 8 0
Grant in aid of Science	50 0 0	50 0 0	.....	.....
Expenditure of Davis Bequest ...	74 1 0	76 18 0	2 17 0	.....
Interest on Mortgage Debt	312 13 4	273 14 9	.....	38 18 7
	26,579 7 4	25,687 5 8	1,185 7 8	2,077 9 4
Decrease .....	.....	892 1 8	Ded. Incr.	1,185 7 8
	26,579 7 4	26,579 7 4	.....	892 1 8
Ordinary Payments.....	24,753 9 5	24,651 4 3	.....	102 5 2
Extraordinary ditto.....	1,825 17 11	1,036 1 5	.....	789 16 6
	26,579 7 4	25,687 5 8	.....	892 1 8

The ordinary expenditure of the Society was thus less by £102 5s. 2d. than that of the previous year. The extraordinary expenditure (which it was thought proper to restrict within narrower limits than usual, on account of

the falling Income) was also less than that of 1880 by the sum of £789 16s. 6d. It consisted of the following items:—

Extraordinary Expenditure paid in 1881.

	£	s.	d.
a. Additions to Prosector's House.....	495	5	10
b. Insect-house Expenses	313	12	4
c. Burning Ballast	177	3	3
d. Grant to the Zoological Record Association	50	0	0
	<u>1036</u>	<u>1</u>	<u>5</u>

c. Assets and Liabilities.

The Assets and Liabilities of the Society on the 31st of December 1881 were estimated as follow:—

ASSETS.						
	Unpaid arrears of		Freehold and Funded Property.	Cash.	Total.	
	Previous Years.	Current Year.				
	£	s.	d.	£	s.	d.
Cash at the Banker's Cost of £1900 Lond. & South-western Ry. Co.'s New 4 per Cent. Preference Stock (DavisTrust-fund)	.....	.....	.....	1203	3	4
Freehold Premises	.....	.....	*24,745	0	0	24,745
Annual Subscriptions	34	0	0	138	0	0
Ivory Tickets	1	1	0	3	3	0
Publication Sales ...	19	11	6	145	13	4
Garden Sales	3	13	0	65	4	9
Rent for Refreshment Rooms.....	.....	48	10	0	.....	48
Rent for Freehold Premises .....	.....	75	0	0	.....	75
	58	5	6	475	11	1
				26,683	9	6
				1203	3	4
						28,420
						9
						5

* This is the estimate of Messrs. Widnell and Trollope plus the addition of £225 annually until the expiration of Mr. Purdey's lease. The sum actually paid was £22,225 on June 24, 1877.

LIABILITIES.

	Debts.					
	£	s.	d.	£	s.	d.
Bills, &c., estimated at—						
For the Gardens, say	1013	9	2			
Office, say	231	13	5			
				1245	2	7
Rent and Taxes unpaid—						
For the Gardens, say	272	18	10			
Office, say	25	18	0			
				298	16	10
Messrs. Drummond, Mortgage Debt				6000	0	0
Temporary Loan had November 18, 1881				200	0	0
Ditto ditto December 21, 1881				1000	0	0
				8743	19	5

It may be remarked that the estimate of Assets does not include the value of the Society's Library or that of the collection of living animals, both of which are of considerable amount.

II. OFFICE, 11 HANOVER SQUARE.

1. PROPOSED NEW MEETING-ROOM.

Although great relief was given to the business carried on in this office by the addition of the new storey in 1879 and the consequent rearrangement of the upper rooms, additional space is still required for the accommodation of the stock of publications (now stowed away in different places in the Gardens) and for the increasing Library. Besides these pressing requirements, a new and large meeting-room has long been a necessity, the present Council-room being, as is obvious to all that use it, quite insufficient for any but the most ordinary occasions, and most inconvenient for the Scientific Meetings. The Council have accordingly determined, upon the expiration of Mr. Purdey's Lease at Michaelmas next, or so soon after as can be conveniently arranged, to build a new meeting-room at the back of the present house, and a store-room beneath it for the publications. This will not

interfere with the utilization of the frontage and premises in Oxford Street, which, as the Council are assured, are likely to return a very good rate of interest upon the amount expended in their purchase.

2. SCIENTIFIC MEETINGS.

To the fourteen meetings for the despatch of scientific business held in the Society's Rooms in Hanover Square in 1881, 121 communications were made. Of these, 83 were from Fellows, 1 from Foreign Members, and 15 from Corresponding Members of the Society. The remaining 22 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 1880 was 131.

These communications were submitted to the Committee of Publication, by whom the following orders were made respecting them: 2 were ordered to be printed entire in the 'Transactions' of the Society, and 99 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.

3. SCIENTIFIC PUBLICATIONS.

The volume of 'Proceedings' for 1881 (copies of which are on the table) contains a number of important papers, and is above the average as regards dimensions and the number of its illustrations, as will be seen from the following table, in which are given the number of pages and plates of the volumes of 'Proceedings' for the past ten years:—

	plates.	pages.
1872	75	927
1873	69	842
1874	84	728
1875	72	726
1876	82	864
1877	85	893
1878	62	1056
1879	64	868
1880	64	743
1881	72	1056

Three Parts of the Society's 'Transactions' were issued during the year 1881, namely:—

VOL. XI. PART III. (March, 1881).

On the Genera and Species of the Lepidopterous Subfamily Ophiderinæ inhabiting the Indian Region. By F. Moore, F.Z.S. (with three coloured plates).

On the Structure of the Skull in the Chameleons. By W. K. Parker, F.R.S., F.Z.S. (with five plates).

VOL. XI. PART IV. (April, 1881).

On the Male Generative Organs of the Sumatran Rhinoceros (*Ceratorhinus sumatrensis*). By W. A. Forbes, B.A., F.L.S., Scholar of St. John's College, Cambridge, Prosector to the Society (with one plate).

On the Anatomy of the Female Organs of the Proboscidea. By M. Watson, M.D., Professor of Anatomy, Owens College, Manchester (with two plates).

VOL. XI. PART V. (June, 1881).

Descriptions of some new and rare Cephalopoda (Part II.). By Prof. Owen, C.B., F.R.S., F.Z.S., &c. (with thirteen plates).

Since the commencement of the present year another part of 'Transactions' (vol. xi. part vi.) and a General Index to the first ten volumes of the 'Transactions' have been published and delivered to the Subscribers to the Publications.

An Index to the ten volumes of the 'Proceedings' from 1871 to 1880 is nearly all in type, and will be ready for issue on June 1st.

4. LIBRARY.

The Library, under the superintendence of Mr. F. H. Waterhouse, the Society's Librarian, has been kept in good order during the past year, and is used by many working zoologists.

Many important additions have been made to it, among which attention may be called to the following donations:—

Barboza du Bocage. Ornithologie d'Angola.—Part 2. Presented by the Author.

- Burmeister (Dr. H.). Description Physique de la République Argentine. Text, Tome iii. Atlas, Section i. Part i. and Section ii. Part i. Lépidoptères. Livr. 1, 2. Presented by the Author.
- Duncan (P. Martin) and Sladen (W. P.). Memoir on the Echinodermata. 4to. London, 1881. Presented by the Authors.
- Holub (Dr. Emil) und Pelzeln (Aug. von). Beiträge zur Ornithologie Südafrikas. 8vo. Wien, 1882. Presented by Dr. Emil Holub.
- Moore (F.). The Lepidoptera of Ceylon. Parts i. and ii. Presented by the Government of India.
- Piaget (E.). Les Pédiculines. Text and Atlas. 4to. Leide, 1880. Presented by the Director of the Museum of Natural History, Leiden.
- Retzius (Gustaf). Das Gehörorgan der Wirbelthiere. Folio. Stockholm, 1881. Presented by the Author.

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

- Balfour. Comparative Embryology. 2 vols., 8vo, 1881-82.
- Barbut. Genres des Insectes de Linné. 4to, 1781.
- Bennett. Whaling Voyage round the Globe. 2 vols., 8vo, 1840.
- Bock. Head-Hunters of Borneo. Roy. 8vo, 1881.
- Booth. British Birds. Part i. Small folio, 1881.
- Bullettino della Società Malacologica Italiana. Vols. i. to vi. 8vo, 1875-80.
- British Burma Gazetteer. 2 vols., 4to, 1879-80.
- Broderick. Falconer's Favourites. Folio, 1865.
- 'Challenger,' Voyage of H.M.S. [Zoology], vols. ii., iii. 4to, 1881.
- Chenu. Manuel de Conchyliologie. 2 vols., 8vo, 1859-62.
- Claus. Grundzüge der Zoologie. Fourth Edition, 8vo, 1880-82.
- Cotton's Song Birds of Great Britain. 2 vols., roy. 8vo, 1835-36.
- Cuvier's Animal Kingdom. New Edition. By Carpenter and Westwood. 4to, 1863.
- De Geer. Genera et Species Insectorum. 8vo, 1783.
- Du Bois. Oiseaux de Belgique. Livr. 1-39. Royal 8vo, 1876-81.
- Dufour. Recherches Anatomiques et Physiologiques sur les Hémiptères. 4to, 1833.
- Dunker. Mollusca Japonica. 4to, 1861.
- Edinburgh Journal of Natural History. Small folio, 1835-40.
- Ellis. Natural History of Zoophytes. 4to, 1786.
- Entomologische Nachrichten. Jahr. vi., vii. 8vo, 1880-81.
- Garner. Natural History of the County of Stafford. 8vo, 1844.
- Girard. Traité Élémentaire d'Entomologie. Tome ii. & iii. 8vo, 1879-82.
- Griffith. Quadrumana and Carnivora. 2 vols., royal 8vo, 1821.
- Haeckel. Die Radiolarien. Text & Atlas, folio, 1862.
- Hahn. Die Arachniden. Continuation by C. L. Koch. 16 vols., 8vo, 1831-48.
- Hewitson's British Oology. First Edition, 2 vols., royal 8vo, 1831-44.
- . Second Edition, 2 vols., royal 8vo, 1846.
- Holub. Seven Years in South Africa. 2 vols., 8vo, 1881.

- Jensen. Turbellaria ad Litora Norvegiæ Occidentalia. 4to, 1878.
- Leigh. Natural History of Lancashire, Cheshire, &c. Folio, 1700.
- Leuret et Gratiolet. Anatomie Comparée du Système Nerveux. Text 8vo, Atlas folio, 1839-57.
- Leydig. Lehrbuch der Histologie. Royal 8vo, 1857.
- . Die augenähnlichen Organe der Fische. 8vo, 1881.
- Long's Expedition to the Source of St. Peter's River. 2 vols., 8vo, 1825.
- Markham. Polar Reconnaissance. 8vo, 1881.
- Martyn. Natural History of Spiders. Folio, 1793.
- Maximilian. Travels in Brazil. 4to, 1820.
- Mivart. The Cat. 8vo, 1881.
- Montagu's Ornithological Dictionary. 2 vols., 8vo, 1802-13.
- Moquin-Tandon. Histoire Naturelle des Mollusques de France. 2 vols. and atlas, royal 8vo, 1855.
- Moreau. Histoire Naturelle des Poissons de la France. 3 vols., 8vo, 1881.
- Nordenskiöld. Voyage of the 'Vega' round Asia and Europe. 2 vols., royal 8vo, 1881.
- Oates. Matabele Land. 8vo, 1881.
- Pennant. British Zoology. 1st Edition, folio, 1776.
- . ——. New Edition, 4 vols., 8vo, 1812.
- Perry. Conchology. Folio, 1811.
- Petiver. Gazophylacii Naturæ et Artis Decades X. Folio, 1702-11.
- Pinto. How I crossed Africa. 2 vols., 8vo, 1881.
- Piso. Historia Naturalis Brasilie. Folio, 1648.
- Roesel. Historia Naturalis Ranarum. Folio, 1758.
- Rolland. Faune Populaire de la France. 4 vols., 8vo, 1877-81.
- Schimper and Zittel. Handbuch der Paläontologie. 8vo, 1880.
- Schiödte. Zoologia Danica. Hefte 2. Folio, 1881.
- Selby's British Ornithology. 4 vols., Elephant folio.
- Selenka. Zoologische Studien, Hefte i., ii. 4to, 1878-81.
- Selous. A Hunter's Wanderings in Africa. 8vo, 1881.
- Tegelmeier. Natural History of the Cranes. Royal 8vo, 1881.
- Thomson's Archives Entomologiques. 2 vols., royal 8vo, 1857-58.
- Tiedemann (F.). Icones Cerebri Simiarum et quorundam Mammalium rariorum. Folio, 1821.
- . Anatomie und Naturgeschichte der Vögel. 2 vols., 8vo, 1810-14.
- Walters. Birds of Ireland. 12mo, 1853.
- Weinkauff. Conchylien des Mittelmeeres. 2 vols., 8vo, 1867-68.
- Wood. Index Entomologicus. Royal 8vo, 1854.
- . Illustrations of the Linnæan Genera of Insects. 2 vols., 12mo, 1821.
- Yarrell's History of British Birds. [3rd Edition.] 3 vols., 8vo, 1856.

The following is a list of the periodicals received in 1881 from the various Societies and Institutions with which this Society is in correspondence.

AFRICA.

- The South-African Philosophical Society, Cape Town.
Transactions, vol. i.; vol. ii. parts 1, 2.

AMERICA.

- The American Academy of Arts and Sciences, Boston.
Proceedings, New Series, vol. vii. part 2; vol. viii. parts 1, 2.
- The Boston Society of Natural History, Boston.
Proceedings, vol. xxi. part 1.
Anniversary Memoirs, 1830-1880.
- The Buffalo Society of Natural Sciences, Buffalo.
Bulletin, vol. iii. no. 5.
- The Museum of Comparative Zoology, Harvard College,
Cambridge, Mass.
Bulletin, vol. vii. no. 1; vol. viii. nos. 1-14.
Memoirs, vol. viii. no. 1.
Annual Report, 1880-81.
- The Argentine Zoological Society, Cordova.
Periodico Zoologico, tomo i.-iii.
- The Nova-Scotia Institute of Natural Sciences, Halifax.
Proceedings and Transactions, vol. v. pts. 2, 3.
- The Academy of Natural Sciences, Philadelphia.
Proceedings, 1881.
- The American Philosophical Society, Philadelphia.
Proceedings, vol. xix. nos. 107, 108.
Transactions, vol. viii. nos. 1-4.
- The National Museum, Rio de Janeiro.
Archives, vol. iii. nos. 3, 4.
- The Peabody Academy of Sciences, Salem, Mass.
Memoirs, vol. i. nos. 5, 6.
- The Franklin Institute, Washington.
Journal, 1881.

The Smithsonian Institution, Washington.

Contributions to Knowledge, vol. xxiii.
 Miscellaneous Collections, vols. xviii.-xxi.
 Annual Report, 1879.
 Report of the Geological Survey of Ohio, vol. iii.
 Memorial of Joseph Henry.

The United States National Museum, Washington.

Proceedings, 1881.

AUSTRIA.

The Royal Society of Sciences, Cracow.

Proceedings, tom. xiv., xv.

The Imperial Academy of Sciences, Vienna.

Sitzungsberichte, Band lxxxii. Heft 3-5; Band lxxxiii. Heft 1-4.

The Zoological and Botanical Society, Vienna.

Verhandlungen, Band xxx. 1880 (1881).

AUSTRALIAN COLONIES.

The Royal Society of South Australia, Adelaide.

Transactions and Proceedings, vol. iii.

The Royal Society of Victoria, Melbourne.

Transactions and Proceedings, vol. xvii.

The Linnean Society of New South Wales, Sydney.

Proceedings, vol. v. parts 3, 4; vol. vi. parts 1, 2.

The Royal Society of New South Wales, Sydney.

Journal and Proceedings, vols. xiii., xiv.

The Royal Society of Tasmania.

Monthly Notices of Papers and Proceedings for 1879.

The New-Zealand Institute, Wellington.

Transactions, vol. xiii.

BELGIUM.

The Entomological Society of Belgium, Brussels.

Annales, tom. xxiii., xxiv.
 Comptes-Rendus, 1881.

The Royal Museum of Natural History, Brussels.

Annales, tome vi. part 3.

The Malacological Society of Belgium, Brussels.

Annales, tom. xii.

Procès-Verbaux des Séances, tom. viii.

The Royal Academy of Sciences, Brussels.

Mémoires des Membres, 4to, tome xliii. part 1.

Mémoires couronnés et des savants étrangers, 4to, tome xxxix.
part 2; tome xlii., xliii.

Mémoires couronnés et autres Mémoires, 8vo, tome xxix., xxx.,
and xxxii.

Bulletins, tom. xlvi., xlvii., xlviii., xlix., and l.

Annuaire, 1879, 1880, 1881.

EAST INDIES.

The Royal Society of the Dutch East Indies, Batavia.

Natuurkundig Tijdschrift, deel xxxix.

The Geological Survey of India, Calcutta.

Records, vol. xiv. parts 1-4.

Memoirs, vol. xvi. parts 1, 3.

Memoirs (*Palæontologia Indica*), Fossil Flora of the Gondwana
System, vol. i. parts 1-4; vol. ii. parts 1, 2; vol. iii. part 1
and Supplement.

The Asiatic Society of Bengal, Calcutta.

Proceedings, 1880, nos. 9, 10; 1881, nos. 1-8.

Journal, vol. xlix. nos. 236-238; vol. l. nos. 239-244.

The Asiatic Society of Bengal, North-China Branch,
Shanghai.

Journal, new series, no. xv.

FRANCE.

The Linnean Society of Normandy, Caen.

Bulletin, sér. 3, tome iv.

The Academy of Sciences, Lyons.

Annales, 5^e série, tome ii.

The Academy of Sciences, Paris.

Comptes Rendus, 1873-80.

The Entomological Society of France, Paris.

Annales, 5^e sér. tome x.

The Museum of Natural History, Paris.

Nouvelles Archives, sér. 2, tome iv.

The Society Philomatique, Paris.

Bulletin, sér. 7, tome v.

The Zoological Society of Acclimatation, Paris.

Bulletin, 1881.

GERMANY.

The Royal Prussian Academy of Sciences, Berlin.

Monatsbericht, 1881.

Abhandlungen, 1880-81.

The Society of Friends of Natural History, Berlin.

Sitzungsberichte, 1880.

The Senckenbergian Natural-History Society, Frankfort
a. M.

Bericht, 1880-81.

Abhandlungen, Band xii. Heft 1, 2.

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III. GARDENS, REGENT'S PARK.

1. BUILDINGS AND WORKS.

The buildings and walks in the Society's Gardens were kept in good repair during the year 1881 by the ordinary staff of workmen, reinforced by a small number of extra painters during the summer. The buildings specially attended to were the Bears' den, Hyenas' den, Ladies Waiting-rooms near Tunnel, and a portion of the Superintendent's House. These were thoroughly repaired and painted, and put into complete order. A new Farrier's Shop adjoining the Smith's Shop was also built, and is likely to prove a great accommodation, as all horses were previously obliged to be shod outside the Gardens.

As regards new buildings and works, in view of the falling-off of the Society's Income, already alluded to, the Council thought it prudent to restrict, as far as possible, the outlay under this head. The amount spent in this way was therefore only £986 1s. 5*d.*, consisting of the following items:—

	£	s.	d.
Additions to the Prosector's Office	495	5	10
Insect-house and maintenance	313	12	4
Burning ballast (for new Reptile-house)	177	3	3
	<hr/>		
	£986	1	5

There being no accommodation for occasional visitors and assistants in the Prosector's Office, the Council determined, as announced in their last Report, to make an addition to it of some studies at the back, for Naturalists engaged in special examinations. This work was commenced in 1880 by the Society's staff of workmen, and the sum of £94 18s. 11*d.* was expended upon it. The further sum of £495 5s. 10*d.* was devoted to the same object in 1881, and charged to extraordinary expenditure.

The studies are now complete, and seem to be in every way suited for the purpose intended. As will be seen by reference to a subsequent part of the Report, a considerable amount of good work has been already done in them.

As regards the Insect-house, to the fittings and maintenance of which the sum of £313 12s. 4*d.* was devoted and charged to extraordinary expenditure during the past year, the Council are glad to be able to say that the

hopes which they have on former occasions expressed of the success of this important addition to the Society's Garden establishment have been, as will be subsequently shown, more than realized.

The only remaining item of extraordinary expenditure consists of the sum of £177, devoted to clearing the ground and burning ballast on the proposed site of the new Reptile-house. The plans for this much-required building have been ready for some time past, and the Council have great hopes that the improvement in the Society's finances which has taken place during the past few months will enable them to commence the undertaking at the end of the present summer.

2. INSECT-HOUSE.

Although of late years many entomologists have been in the habit of rearing insects in captivity for the purpose of watching their transformations and of obtaining good specimens in each stage of their existence, nothing like a systematic attempt, so far as the Council know, has yet been made to form a general collection of living insects for exhibition. As in former days with respect to reptiles and the lower marine animals, so in the present instance as regards its Insect-house, the Society seems to be first in the field, and, so far as can be judged from the progress already made, to be likely to attain many interesting and instructive results.

The building now used as an Insect-house is constructed of iron and glass on three sides, with a brick back to it, and formerly formed part of the refreshment-rooms. The cases containing the insects are arranged on stands all round the building, and also occupy two tables in the centre. The cases used for the principal specimens are formed of zinc plates. The upper part of them is glazed on all four sides, the top being formed of perforated zinc so as to admit the air. The food-plant or object required for the suspension of the chrysalises, when that stage of the insect is exhibited, is inserted into the case through a circular hole in the bottom; but the glass front also opens, so that ready access can be obtained to the interior. The larger cases in the front row measure about 24 inches in breadth by 18 in depth, and are 32 inches in height. The cases in the opposite row are of similar construction, but rather smaller in dimensions.

The cases on the south side (on each side of the entrance door) are mostly appropriated to the exhibition of the larger and finer species of silk-producing moths of the family Bombycidae.

On the north side the smaller cases are devoted principally to the rarer and more noticeable butterflies and moths of Europe, such as the Swallow-tailed Butterfly (*Papilio machaon*), the Black-veined Butterfly (*Aporia crataegi*), the Purple Emperor (*Apatura iris*), and the Orange-tip (*Anthocharis cardamines*) among the former, and the Scarlet Tiger-moth (*Callimorpha dominula*) and Emperor Moth (*Saturnia carpini*) among the latter group. The series is continued, mixed with other forms, at the east end of the building. On the larger tables in the middle of the Insect-house are examples of other butterflies, moths, beetles, mayflies, stoneflies, and aquatic insects of different kinds. The whole series exhibited last year contained examples of about fifty species.

Every specimen in the Insect-house is distinctly labelled, and over each of the principal cases is fixed a glazed box, in which are placed preserved specimens of the various stages of metamorphosis of the insect exhibited in the case beneath.

The Insect-house was opened to the public on the 25th of April last year, and during the season of 1881 was placed under the sole charge of Mr. William Watkins, an experienced entomologist and breeder of insects, whose name is well known to many naturalists. Mr. Watkins, whose services were retained for six months, for the purpose of inaugurating this novel exhibition, has written a series of reports upon the various insects bred under his charge, which are published in the volume of 'Proceedings' for 1881.

3. PROPOSED RAILWAY THROUGH THE GARDENS.

It has been known to the Council for some years past that a plan was on foot for making a Railway along the north bank of the Regent's Canal which passes through the Society's Gardens, but the Bill of the Regent's Canal City and Docks Railway Company for carrying out this plan was first introduced in the present session of Parliament. After much preliminary negotiation with the Promoters, which failed in effecting a settlement of the

terms upon which the Council thought fit to withdraw the Society's opposition, the Council, acting upon the advice of the Society's Solicitors, resolved to present a petition to the House of Commons praying to be heard by counsel against the Bill. At the same time the Council have reason to believe that the Promoters will ultimately assent to the conditions which the Council, acting under the advice of their Solicitor and Surveyor, have thought it right to insist upon, and that, if these conditions are carried out, the proposed Railway will not occasion any serious detriment to the Society's interests.

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

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Besides these there are 20 Helpers in the Menagerie, 12 Garden-labourers, 8 Artisans, 3 Painters, 11 Labourers, 1 Butcher, 1 Fireman, 2 Night-Watchmen, and 1 Time-keeper employed at weekly wages; so that the number of the whole staff may be reckoned at about 92 persons, against 97 at the corresponding period last year.

5. VISITORS.

The total number of visitors to the Society's Gardens during the year 1881 was 648,694, as will be seen by the following Table, which gives the corresponding numbers of entrances under each head for 1880 and 1881:—

Visitors to the Gardens.

	1880.	1881.	Comparison.	
Fellows and Friends	190,695	180,324	Decr. 10,371	
Paying {	On ordinary days at 1s. each...	156,560	148,489	Decr. 8,071
	On Mondays and other days at 6d. each	271,148	249,423	Decr. 21,725
	Children under 12 years at 6d. each	44,793	56,768	Incr. 11,975
School Children (admitted free)	12,783	13,690	Incr. 907	
	675,979	648,694	Decr. 27,285	

The following Table contains a statement of the Number of Visitors to the Society's Gardens during each year, from the year 1828 to the year 1881.

Number of Visitors to the Gardens, 1828-81.

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

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

6. ZOOLOGICAL LECTURES.

The Zoological Lectures, to which the proceeds of the Davis Trust-fund have been devoted for several years, will be continued during the present season.

The Lectures for this year will be given in the usual Lecture-room in the Society's Gardens, on Thursdays at 5 P.M., commencing June 8th.

The following is a list of the subjects :—

Date.	Subject.	Lecturer.
1. Thursday, June 8 ...	Armadillos, living and extinct.	Prof. Flower, LL.D., F.R.S.
2. " " 15 ...	The British Lion	Prof. Boyd Dawkins, F.R.S.
3. " " 22 ...	Crocodiles	Prof. Parker, F.R.S.
4. " " 29 ...	British Snakes and Lizards.	Prof. Mivart, F.R.S.
5. " July 6 ...	Frogs and Toads	W. A. Forbes, Esq., B.A.
6. " " 13 ...	Insects and their Metamorphoses.	Prof. Martin Duncan, F.R.S.
7. " " 20 ...	Foreign Zoological Gardens	P. L. Sclater, Esq., M.A., F.R.S.

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

7. PROSECTOR'S DEPARTMENT.

The accommodation afforded by the original dissecting-rooms, built in 1865, having been found to be too limited, and the rooms themselves being so damp as to render them very unhealthy, it was decided in 1880 to thoroughly repair and alter the whole house, to raise the floor and put in hot-water pipes to dry and warm it, and, as already mentioned, to increase the available space by enlarging the Prosector's private room, and by building on to it three smaller and separate studies, for the accommodation of students, artists, and others who have occasion to work in the dissecting-room.

These repairs and improvements have now been satisfactorily completed, the new studies having been finished in the summer of last year, and the remaining rooms shortly before Christmas. They have, in every respect, been found to answer their purpose admirably, the new rooms being both dry, warm, and light.

During the months of July and August last year the

new studies were occupied by a long-vacation class of four students from Cambridge, who worked at the comparative anatomy of the Mammalia under the supervision of the Demonstrator of Comparative Anatomy in that University, Mr. J. J. Lister, F.Z.S.

The Pathological Society, being anxious to avail themselves of the opportunities afforded by the Society's Gardens for the study of Comparative Pathology, have formed a Committee of their members with that object, and two professed pathologists are now regularly working in the Prosector's rooms. Their investigations promise to be of great scientific interest and value, not only to pathologists, but also to the officers of this Society, as affording better indications than have hitherto been obtained of the various morbid causes affecting the animals in the Society's menagerie.

When the increased facilities now afforded for scientific research by the Society shall become more fully known, there is every reason to suppose that many anatomists will avail themselves of them.

The number of deaths in the Society's menagerie during the year 1881 was somewhat in excess of the few previous years, the increased mortality being consequent on the very severe cold of the first six weeks of the year—the deaths during January 1881 being more than double the average number during the ten preceding years. There were, however, but few serious losses: the most important perhaps were a male Giraffe (the last of those that were bred in the Gardens) 14 years old, the cause of death being tubercle of the lungs; a Great Anteater (*Myrmecophaga jubata*), which had extensive inflammation of all the tissues surrounding the submaxillary glands; a White-nosed Saki (*Pithecia albinasa*); the second Koala (*Phascolarctos cinereus*) and Red Wolf (*Canis jubatus*); and two female Kudus (*Strepsiceros kudu*). Amongst the birds the greatest loss was the Indian Darter (*Plotus melanogaster*), obtained in April last.

The Prosector has published, *inter alia*, the following papers and memoirs in the Society's 'Proceedings' and 'Transactions' for the year, based upon specimens that have lived in the Society's menagerie:—"On the Anatomy of the Koala (*Phascolarctos cinereus*)"; "On the Male Generative Organs of the Sumatran Rhinoceros (*Ceratohinus sumatrensis*)"; "Note on the Epithelium of the

Stomach of the Darter (*Plotus anhinga*)"; "On the Conformation of the Trachea in the Ratite Birds"; "Notes on the Incubation of the Indian Python (*Python molurus*), with special regard to the alleged increase of temperature during that period."

The following papers, based on materials from the Society's Gardens, have also been read before the Society:—"Additional Observations on the Anatomy of the Spotted Hyæna (*Hyæna crocuta*)," by Prof. Morrison Watson, Owens College, Manchester; and "On the Condition of the median portion of the Vaginal Apparatus in the Macro-podidæ," by Messrs. J. J. Lister, Cambridge, and J. J. Fletcher, Sydney, N.S.W.

Numerous specimens have been forwarded from the Prosector's Department to the Museum of the Royal College of Surgeons, the University Museum at Cambridge, the Museum of Comparative Zoology, Cambridge, Mass., and to other institutions, as well as to private workers, including Prof. W. K. Parker, Prof. Turner, Dr. Max Fürbinger, of Amsterdam, Prof. Gegenbaur, Dr. Hans Gadow, and others.

8. MENAGERIE.

The number of animals belonging to the first three classes of Vertebrates living in the Society's Menagerie at the close of 1881 was 2294. The corresponding number on the 31st of December, 1880, was 2372, as will be seen by the subjoined Table:—

	December 31.		Comparison.
	1880.	1881.	
Quadrupeds.....	703	647	Decr. 56
Birds	1438	1389	Decr. 49
Reptiles	231	258	Incr. 27
	2372	2294	Decr. 78

The total number of registered additions to the Menagerie in 1881 was 1213, of which 565 were acquired by presentation, 310 by purchase, 167 were bred in the Gardens, 136 were received on deposit, and 35 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.
1870.	386	529	160	218	40	1333
1871.	496	434	138	129	90	1287
1872.	460	527	195	110	52	1344
1873.	483	457	191	231	188	1530
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

The following is a list of the most noticeable additions made to the Menagerie during the year 1881:—

JANUARY.

1. A White-nosed Saki (*Pithecia albinasa*), purchased January 11th. The typical example of this species in the Paris Museum has hitherto remained unique in Europe, so that the Society was fortunate in obtaining an example of so rare a species.

2. An American Monkey of the genus *Callithrix*—probably referable to *C. brunnea*. This specimen was purchased along with the preceding and a Douroucouli (*Nyctipithecus trivirgatus?*). All three were probably from some district of the Upper Amazons.

3. An example of an Insectivore of the genus *Tupaia* (probably *T. tana*), obtained by purchase January 11th.

FEBRUARY.

4. A female Bactrian Camel (*Camelus bactrianus*), formerly belonging to Ayoub Khan, which Col. O. H. St. John, F.Z.S., purchased from its captors at Kandahar and presented to the Society.

5. A male Blanford's Sheep (*Ovis blanfordi*), obtained from Afghanistan, and presented to the Society by Capt. W. Cotton, F.Z.S. This species is new to the Collection.

MARCH.

6. A young male Gooral Antelope (*Nemorhædus goral*) from the Himalayas, purchased 16th March, being the first example of this fine species that we have received.

7. Three Birds of Paradise belonging to the following species :—The Twelve-wired Bird of Paradise (*Seleucides alba*), the Red Bird of Paradise (*Paradisea sanguinea*), and the Green Manucode (*Manucodia chalybeia*). These birds were all of species new to the Collection.

APRIL.

8. An Indian Darter (*Plotus melanogaster*), received in exchange from the Zoological Gardens, Calcutta, April 8th. This was the first living example received of the Indian Darter, previous examples of this genus having belonged to *Plotus anHINGA* of South America and *Plotus levaillantii* of Africa.

9. A young female Beisa Antelope (*Oryx beisa*), born in the Gardens April 12th, believed to be the first example of this Antelope that has been bred in captivity.

10. A Mountain Ka-Ka (*Nestor notabilis*), transmitted as a present to the Society by Dr. A. de Lautour of Otago, New Zealand.

MAY.

11. An African Wild Ass (*Equus tæniopus*) from Upper Nubia, purchased May 26th, being the second example of this form of Wild Ass which we have received.

12. A White-marked Duck (*Anas specularis*) from Antarctic America, purchased May 26th, being the first specimen of this fine species which has been obtained for the Collection.

JULY.

13. Eight Menobranchs (*Menobranchus lateralis*) from North America, examples of this singular Amphibian with external gills not having been previously received.

14. A Surucuru (*Lachesis mutus*) from Pernambuco, Brazil, presented by C. A. Craven, Esq., July 27th.

This deadly Serpent formed a new and most interesting addition to the series of Venomous Snakes in the Snake-house.

SEPTEMBER.

15. A specimen of the Rubiginous Cat (*Felis rubiginosa*) from Ceylon, presented by Charles E. Pole Carew, Esq., the species being new to the Society's Collection.

OCTOBER.

16. An example of the little-known Carnivore *Hemigalea hardwickii*, new to the Society's Collection. It is very shy and fierce and nocturnal in its habits. When handled it ejects a highly acrid and Skunk-like secretion from its anal glands.

17. Two female Beatrix Antelopes (*Oryx beatrix*), obtained from the great desert behind the mountainous district of Muscat by Lieut.-Col. S. B. Miles, British Consul at Muscat, and presented to the Society by Lord Lilford, F.Z.S.

NOVEMBER.

18. Forty-six young Nose-horned Vipers (*Vipera nasicornis*), produced alive by a large female of this Serpent acquired on the 1st of October 1880. But few of them long survived their birth; but the large number of young produced on one occasion by this venomous Snake is remarkable and worthy of record.

19. A Vinaceous Amazon (*Chrysotis vinacea*), purchased November 30th, being of a species new to the Society's Collection.

DECEMBER.

20. A young male Guemul Deer (*Furcifer chilensis*), from Patagonia, purchased December 22nd.

21. A Germain's Peacock-Pheasant (*Polyplectron germaini*), purchased December 24th.

Both these accessions were of species new to the Society's Collection.

The following is a systematic list of the Mammals, Birds, and Reptiles, belonging to species new to the Society's Catalogue, which were exhibited in the Society's Gardens in the year 1881 :—

MAMMALS.

- Brown Teetee (*Callithrix brunnea*).
- White-nosed Saki (*Pithecia albinasa*).
- Tana Tupia (*Tupaia tana*).
- Rusty-spotted Cat (*Felis rubiginosa*).
- Hardwicke's Hemigale (*Hemigalea hardwickii*).
- Robust Gerbilles (*Gerbillus robustus*).
- White-rumped Gerbille (*Gerbillus pygargus*).
- Hairy-footed Jerboas (*Dipus hirtipes*).
- Gooral Antelope (*Nemorhædus goral*).
- Blanford's Wild Sheep (*Ovis blanfordi*).
- Gemul Deer (*Furcifer chilensis*).

BIRDS.

- Common Swallow (*Hirundo rustica*).
- Topela Finches (*Munia topela*).
- Bar-breasted Finch (*Munia nisoria*).

Red-chested Whydah Bird (*Vidua ardens*).
 Red-shouldered Weaver Bird (*Urobrachya axillaris*).
 Twelve-wired Bird of Paradise (*Seleucides nigra*).
 Green Manucode (*Manucodia chalybeia*).
 Red Bird of Paradise (*Paradisea rubra*).
 Swift (*Cypselus apus*).
 Vinaceous Amazon (*Chrysotis vinacea*).
 Indian Darter (*Plotus melanogaster*).
 White-marked Duck (*Anas specularis*).
 Spotted Zenaida Doves (*Zenaida maculata*).
 Brush Bronze-winged Pigeon (*Phaps elegans*).
 Germain's Peacock Pheasant (*Polyplectron germaini*).
 Slavonian Grebe (*Podiceps cornutus*).
 Black-throated Diver (*Colymbus arcticus*).

REPTILES.

Senegal Chameleon (*Chamæleon senegalensis*).
 Sooty Amphisbæna (*Amphisbæna fuliginosa*).
 Indian Monitor (*Monitor dracæna*).
 Egyptian Ouarans (*Psammosaurus scincus*).
 Derbian Zonures (*Zonurus derbianus*).
 Cape Adder (*Vipera atropos*).
 Deadly Snake (*Trigonocephalus atrox*).
 Surucucu or Bush-master (*Lachesis mutus*).
 Ocellated Bladder-Frogs (*Cystignathus ocellatus*).
 Orange-shanked Tree-Frog (*Phyllomedusa hypochondrialis*).
 Menobranchs (*Menobranchus lateralis*).

FISHES.

Fringe-lipped Lampern (*Petromyzon branchialis*).

The subjoined list gives the number of animals of each species which were bred in the Gardens in the year 1881 :—

MAMMALS.

2 Rhesus Monkeys (*Macacus erythræus*).
 3 Collared Fruit-Bats (*Cynonycteris collaris*).
 1 Tiger (*Felis tigris*).
 2 Hybrid Paradoxures. (Between *Paradoxurus leucomytax* and *P. larvatus*.)
 1 Banded Ichneumon (*Herpestes fasciatus*).
 2 Dingo Dogs (*Canis dingo*).

- 6 Cuming's Octodons (*Octodon cumingi*).
 2 Hybrid Peccaries. (Between *Dicotyles tajacu* and *D. labiatus*.)
 1 Hybrid Camel. (Between *Camelus bactrianus* and *C. dromedarius*.)
 1 Zebu (*Bos indicus*).
 1 Hybrid Bison. (Between *Bison americana* ♂ and hybrid *Bos frontalis* ♀.)
 2 Cape Buffalos (*Bubalus caffer*).
 1 Eland (*Oreas canna* ♂).
 1 Beisa Antelope (*Oryx beisa* ♀).
 1 Cashmere-shawl Goat (*Capra hircus*, var. ♀).
 1 Mouflon (*Ovis musimon*).
 2 Reeves's Muntjacs (*Cervulus reevesi* ♂).
 2 Hybrid Muntjacs. (Between *Cervulus sclateri* and *C. muntjac* ♀.)
 1 Reeves's Muntjac (*Cervulus reevesi*).
 2 Japanese Deer (*Cervus sika*).
 1 Sambur Deer (*Cervus aristotelis* ♀).
 1 Hog Deer (*Cervus porcinus*).
 1 Molucca Deer (*Cervus moluccensis*).
 1 Hybrid Mesopotamian Fallow Deer. (Between *Cervus mesopotamicus* and *C. dama*.)
 1 Pampas Deer (*Cariacus campestris*).
 1 Squirrel-like Phalanger (*Belideus sciureus*).
 1 Vulpine Phalanger (*Phalangista vulpina*).
 1 Red Kangaroo (*Macropus rufus*).
 1 Bennett's Wallaby (*Halmaturus bennetti*).
 1 Gaimard's Rat-Kangaroo (*Hypsiprymnus gaimardi*).

BIRDS.

- 2 Turquoise Parrakeets (*Euphema pulchella*).
 4 Undulated Grass-Parrakeets (*Melopsittacus undulatus*).
 2 Scarlet Ibis (*Endocimus ruber*).
 1 Ruddy Sheldrake (*Tadorna rutila*).
 3 Variegated Sheldrakes (*Tadorna variegata*).
 7 Australian Wild Ducks (*Anas superciliosa*).
 3 Spotted-billed Ducks (*Anas pæcilorhyncha*).
 3 Common Wigeon (*Mareca penelope*).
 5 Chiloe Wigeons (*Mareca chiloensis*).
 9 Summer Ducks (*Aix sponsa*).
 1 Mandarin Duck (*Aix galericulata*).
 3 Red-crested Whistling Ducks (*Fuligula rufina*).
 4 Geoffroy's Doves (*Peristera geoffroii*).

- 6 Himalayan Monauls (*Lophophorus impeyanus*).
 2 Cheer Pheasants (*Phasianus wallichii*).
 1 Siamese Pheasant (*Euplocamus praelatus*).
 5 Horned Tragopans (*Cerionis satyra*).
 3 Common Peafowls (*Pavo cristatus*).
 4 Peacock Pheasants (*Polyplectron chinquis*).
 2 Hybrid Gulls. (Between *Larus fuscus* and *L. argentatus*.)
 1 Jameson's Gull (*Larus jamesoni*).

REPTILES.

- 1 Mocassin Snake (*Tropidonotus fasciatus*).
 46 Nose-horned Vipers (*Vipera nasicornis*).

The following is a List of the Donors and their several Donations for the year 1881.

- Abrahams, J. A., Esq.
 Two Golden Sparrows.
 Aldridge, Mr. G.
 One Green Monkey.
 Allen, Mr. A.
 Two Greater Black-backed Gulls.
 Alsop, Mrs.
 One Black-eared Marmoset.
 Angel, Maurice C., Esq., F.Z.S.
 Three Paradise Whydah Birds, one Pin-tailed Whydah Bird, one Red-shouldered Weaver Bird, one Wiener's Finch, one Red-beaked Weaver Bird, two Yellow-rumped Seed eaters.
 Anson, Lieut. W. V., R.N.
 One Purple-faced Monkey.
 Apthorp, F. N., Esq.
 Two Squirrel Monkeys.
 Arbuthnot, Gerald, Esq.
 Two Black-tailed Parrakeets.
 Archer, H. T., Esq.
 Two Wood-Owls.
 Armitage, Lieut.-Col. J. S., F.Z.S.
 Two Leopards.
 Astley, Arthur F., Esq.
 Two Common Jays.
 Aylesbury, H., Esq.
 One Malbrouck Monkey.

- Balfour, H., Esq.
One Common Crayfish.
- Barber, C. B., Esq.
Two Common Squirrels.
- Barker, D. W., Esq.
Two Squirrel-like Phalangers.
- Barrow, J., Esq.
One Serval, two Bell's Cinixys.
- Bassano, W., Esq.
One Chipping Squirrel, one Plain-tain-Squirrel.
- Baxendale, Salisbury, Esq., F.Z.S.
Two Common Swans.
- Baxter, Mr. G. H.
One Pomarine Skua.
- Beard, Mrs.
One Lesser Sulphur-crested Cockatoo.
- Beart, Master Alfred.
One Common Cuckoo.
- Benison, F. H. Worsley, Esq.
One Carrion-Crow.
- Bennett, G. Lyon, Esq.
One Ceylonese Hawk-Eagle.
- Berridge, Master H.
One Vulpine Phalanger.
- Berryman, E. W., Esq.
One Bosch Bok.
- Beyts, N. H.
Six Hairy-footed Jerboas, one White-rumped Gerbille, two Egyptian Ouarans.
- Birt, Dr. Louis F. H.
One Yaguarundi Cat.
- Black, H. H., Esq.
One Long-snouted Snake.
- Blackstone, J., Esq., F.Z.S.
Two Common Chameleons.
- Bland, E. H., Esq.
Three Green Lizards.
- Blasius, Dr. Rudolph.
Two Black Storks.
- Bott, Major.
One Common Raven.
- Bower, Mr. T. H. Bowyer.
Two Beautiful Parrakeets, two Ceylonese Hanging-Parrakeets, one Chinese Quail, one Regent Bird, one

- Blue-beaked Weaver Bird, two Banded Grass-Finches,
two Bicheno's Finches, one Melodious Finch, one
Black-headed Finch, three Modest Grass-Finches,
one Paradise Whydah Bird.
- Branford, W. Catton, Esq.
Two Black-footed Penguins.
- Brassey, Mrs.
One Vervet Monkey.
- Bree, Dr.
Two Hawfinches.
- Brodrick, W., Esq.
One Lesser Kestrel.
- Brooke, Mr. H. C.
One Common Polecat.
- Brookfield, E. O., Esq.
One Ring-tailed Lemur.
- Brown, E. A., Esq.
One Herring-Gull.
- Brown, Mrs. Edward.
Two Common Peafowls.
- Brownlow, Earl, F.Z.S.
One Loggerhead Turtle.
- Buckingham and Chandos, His Grace the Duke of.
One Indian Leopard.
- Burke, Capt. F. M. (S.S. 'Cheybassa').
One Brush Turkey.
- Burkett, Commander.
One Indranee Owl.
- Burnham, J., Esq.
Two Wonga-Wonga Pigeons.
- Burnside, Eustace L., Esq.
Two Leopards (young).
- Caledon, the Earl of, F.Z.S., and the Hon. Charles Alexander.
One American Black Bear.
- 31 Carew, Charles E. Pole, Esq.
One Rubiginous Cat.
- Cecil, The Lord W. Gascoyne.
Two Common Marmosets.
- Chappelow, J. S., Esq.
One Weeper Capuchin.
- Chauncy, Reginald, Esq.
One Malbrouck Monkey.
- Clayton, J. E., Esq.
One Red-legged Partridge.

Cocks, A. H., Esq., F.Z.S.

One Fringed-lipped Lampern, four River-Lampreys.

Colquhoun, Sir Patrick, F.Z.S.

One Grey Ichneumon.

Comyns, George, Esq.

One Macaque Monkey.

Cook, John M., Esq.

One Leucoryx Antelope.

Cornély, Mons. J. M., C.M.Z.S.

One Chinese Quail, one Wedge-tailed Fruit-Pigeon, two Red-chested Whydah Birds, two Calandra Larks, two Variable Lizards, two Fire-tailed Finches, one Chukar Partridge, one Grey Francolin, one Chilian Teal.

30 Cotton, Capt. W., F.Z.S.

One Blanford's Wild Sheep.

Cottrell, Mr. S. A.

One Tennant's Squirrel.

Cox, Harding, Esq.

One Macaque Monkey.

31 Craven, Charles A., Esq.

One Tarantula Spider, one Millipede, one Surucuru or Bush-master, one Horrid Rattlesnake.

Cubitt, W., Esq.

One Banded Ichneumon.

Cuffe, The Rev. George.

One Macaque Monkey.

Dance, Mr. E. H.

One Collared Peccary, one Black-faced Spider Monkey.

Davies and Jolliff, Messrs.

Thirteen Indian Fruit-Bats.

Dawson, H., Esq.

One Common Snake.

Day, Mr. Henry.

One Alexandrine Parrakeet.

30 De Lautour, Dr. A., M.R.C.S.

One Mountain Ka-Ka.

Douglas, Mr.

One Laughing Kingfisher.

Dowling, A., Esq.

One Macaque Monkey.

Dowly, A. A., Esq.

Two Pileated Jays.

Drax, Miss.

One Black-faced Kangaroo.

- Druce, A., Esq., F.Z.S.
One Common Paradoxure.
- Dummett, Mr. H.
One Macaque Monkey.
- Duncan, James W.
One Macaque Monkey.
- Dunn, W., Esq., C.M.Z.S.
Three Hedgehogs.
- Edge, Mr. R.
One Macaque Monkey.
- Edger, R. M., Esq.
One Vervet Monkey.
- Edwards, Mr. J.
Two Common Kestrels.
- Ellesmere, The Countess of.
One Undulated Grass-Parrakeet.
- Elliot, Edmund A. S., Esq., M.R.C.S.
Two Dunlins, one Ringed Plover.
- Faed, Mrs. J. F.
Two Ferrets.
- Findlay, Mrs.
One Chacma Baboon.
- Fisk, Rev. G. H. R., C.M.Z.S.
Five Robben-Island Snakes, one Smooth-bellied
Snake, one Rufescent Snake.
- Fletcher, C. W. C., Esq.
One Common Paradoxure.
- Fletcher, Robert, Esq.
One Goldfinch, one Snow-Bunting.
- Forbes, A. W., Esq.
One Two-Spotted Paradoxure.
- Foster, C. T., Esq.
Two Common Barn-Owls.
- Fuller, Mrs.
One Ring-tailed Coati.
- Garrett, G. H., Esq.
One Royal Python.
- Gibbs, Dr. Heneage, F.Z.S.
Two Axolotls.
- Glennie, G. R. J., Esq.
One Macaque Monkey.
- Godfrey, Masters John and Charles.
Two Common Kestrels.
- Graham, Lieut. C. E. F. C., R.N.
One Ocelot.

- Greaves, Mrs.
Two Herring-Gulls.
- Green, Mr. C.
One Bonnet-Monkey.
- Guppy, Lachmere, Esq.
One Rough Terrapin.
- Gurney, J. H., Esq., Jun.
One Little Grebe.
- Hagenbeck, Mr. Carl.
One Giant Toad, one Spider.
- Hancock, H. J. Burford, Esq., F.Z.S.
Two West-Indian Agoutis, two Martinican Doves,
three Garden's Night-Herons.
- Hargreaves, John, Esq.
Four Common Swans.
- Harland, Mr. E. A.
One Black-crested Eagle.
- Hart, Lionel, Esq.
Two Guinea Baboons, one Grivet Monkey.
- Hart, W. Hume, Esq., C.M.Z.S.
One Two-spotted Paradoxure.
Two Getulian Ground-Squirrels.
- Hassard, Col. R.E.
Six Dwarf Chameleons.
- Hassell, Mrs. C.
One Grey Ichneumon.
- Haworth, L. H., Esq.
One Ring-tailed Coati.
- Hawtayne, G. H., Esq., C.M.Z.S.
One Common Boa, two Red-billed Tree-Ducks, one
Sooty Amphisbæna.
- Heatley, G. H. Tod, Esq.
One Common Kite.
- Henderson, Mrs. J. S.
One Vulpine Phalanger.
- Holding, Mr. R. E.
Two Pantherine Toads.
- Horniman, F. J., Esq., F.Z.S.
Two Vulpine Phalangers, one Rufous Rat-Kan-
garoo.
- Humphry, Mrs.
One Green Tree-Frog.
- Hunt, Major.
One Dwarf Chameleon.

- Hunt, Mr. C.
One Herring-Gull.
- Jameson, James S., Esq.
One African Cheetah, one Secretary Vulture, one
Chacma Baboon.
- Jameson, James, Esq.
One White-collared Mangabey.
- Jamrach, Mr. A. H.
One Indian Cobra.
- Jarvis, G. E., Esq.
One Macaque Monkey, one Bonnet-Monkey.
- Jerram, W., Esq.
One young Ostrich.
- Johnston, H. H., Esq.
One Undulated Grass-Parrakeet, two Californian
Quails, two Common Quails, one Barred Dove, one
Nutmeg-Finch, one Greenfinch, one Goldfinch, two
Chaffinches, two Common Crossbills, one Common
Lapwing, two Rufous-necked Weaver Birds, two
Mecca Pigeons, one Swift.
- Jolliffe, Mrs. Hylton.
One Banded Grass-Finch, two Yellow-billed Liothrix.
- Jones, Mrs. J. J.
One Egyptian Gazelle.
- Keiser, Mr.
One Red-handed Tamarin.
- Kerr, Hamilton, Esq.
One Rhesus Monkey.
- King, Capt.
One Daubenton's Curassow, one Hawk's-billed Turtle.
- King, Mr. G. H.
One Common Adder.
- Kirk, Sir John, C.B., C.M.Z.S.
One Leopard Tortoise, one Radiated Tortoise, three
Bell's Cinixys.
- Lambert, Alan, Esq.
One Globose Curassow.
- Lawrence, Edward, Esq.
One Blackbird, two Song-Thrushes, two Skylarks,
one Greenfinch, two Chaffinches, two Common Quails.
- Laver, Henry, Esq.
Four Harvest-Mice.
- Laye, Frank G. S., Esq.
One Moustache Monkey.

- Leckie, P., Esq.
One Common Ocelot.
- Leechman, Mrs. John.
One Tarantula Spider.
- Lewis, J., Esq.
One Wall-Lizard.
- Lidbury, Mr. A.
One Common Kestrel.
- 31 Lilford, Lord, F.Z.S.
One Mesopotamian Fallow Deer, two Beatrix Antelopes, two Arabian Gazelles.
- Lindstedt, E., Esq.
One Indian Monitor.
- Lloyd, Master Rew.
One Black-headed Gull.
- Lloyd, J., Esq.
One Grey-breasted Parrakeet, one Black-headed Conure.
- Long, W. H. L., Esq.
One Chacma Baboon.
- Lonsdale, Countess Dowager of.
One Ring-necked Parrakeet.
- Louis, Wyatt, Esq.
One Diana Monkey.
- Lubbock, F., Esq.
One Rose-coloured Pastor.
- Lydston-Newman, Robert H. S. D., Esq.
One Silver Fox.
- Mackenzie, Osgood H., Esq.
One Hooper Swan.
- Mackenzie, Capt.
One Wood-Brocket.
- Macpherson, H. A., Esq.
One Short-toed Lark, one Hybrid Greenfinch, one Snow-Bunting.
- M'Pherson, Capt.
One American Black Bear.
- Maitland, F. O., Esq.
One Stump-tailed Lizard.
- Manley, the Rev. R. H.
One Bonnet-Monkey.
- Mann, J. T., Esq.
Six Common Lizards, two Smooth Snakes, two Sand-Lizards.
- March, the Earl of, F.Z.S.
One Egyptian Gazelle.

- Marlton, Mr. R. J.
One Naked-footed Owlet.
- Marshall, J., Esq.
Two Black-winged Peafowls.
- Marshall, Ernest L., Esq.
One Blue-shouldered Tanager.
- Maskell, Edwin H., Esq.
One Indian Fruit-Bat.
- May, Miss Margeny.
One Arctic Fox.
- Melhuish, Mr. A.
One Central-American Agouti.
- Mengee, Mr. G.
One Slowworm.
- Milestone, Mr.
One Common Lobster.
- Milne-Edwards, Mons. Alphonse.
Two Robust Gerbilles.
- Mitchell, H., Esq.
Two Common Otters.
- Morgan, Gellibrand, & Co., Messrs.
One Brown Bear.
- Morrell, Arthur, Esq.
One Red-legged Partridge.
- Morrison, Mr. H.
One Common Cuckoo.
- Mortimer, Miss.
One Carrion-Crow.
- Moseley, H. N., Esq., F.Z.S.
Ten Green Lizards.
- Mosse, Charles B., Esq.
Two Yellow Snakes.
- Müller, Hugo, Esq.
Three Bull Frogs, one Noisy Frog.
- Murray, J. Wolfe, Esq.
One Marsh-Harrier.
- Nesbitt, A., Esq.
One Upland Goose.
- Norcliffe, Francis B., Esq.
One Ring-tailed Coati.
- Nugent, Mr. W.
One Macaque Monkey.
- Okes-Voysey, R. W., Esq.
One Bonnet-Monkey.

- Ord, Sir Harry St. George, C.B., H.M.Z.S.
Three Short-tailed Wallabies.
- Oxley, Major C. R.
One Viverrine Cat.
- Page, Mr. F.
One Common Barn-Owl.
- Palmer, J. N., Esq.
One Common Marmoset.
- Parry, the Misses.
One Green Lizard.
- Paterson, Mrs.
One Malbrouck Monkey.
- Pesque, John, Esq.
Two Red-handed Tamarins.
- Petty, Mr. W.
One Rude Fox, one Azara's Fox.
- Phipson, A., Esq.
One Slowworm.
- Pichot, Mons. M. P.
Two Polecats.
- Pierce, Col. Thomas, 16th Regiment Bombay N. I.
Two Chukar Partridges.
- Pillans, Borradaile, Esq.
One Cape Adder.
- Platt, S. R., Esq.
One Silver Fox.
- Ponsonby, Arthur C., Esq.
One Rough-eyed Cayman.
- Pope, Mr. J.
One Malbrouck Monkey.
- Portella, Dr.
Two Spotted Cavies.
- Poyer, Poyer J., Esq.
One Common Viper, two Common Snakes.
- Randall, Mr. G.
One Common Gannet.
- Richardson, Miss.
One Rhesus Monkey.
- Richardson, Miss Mary J.
One Roseate Cockatoo.
- Ringrose, E. M., Esq.
One Black-crested Cardinal.
- Ritchie, Capt. James.
Two Yellow-billed Sheathbills.

- Roberts, F., Esq.
Two Common Carp, one Pike, one Common Carp.
- Robertson, Mr. Robert Ross.
One Chacma Baboon.
- Robinson, J. C., Esq.
Two Young Turtles.
- Robinson, Capt. J. C.
One Black-footed Penguin.
- Rocke, Mrs.
One Common Badger.
- Rogers, A. R., Esq.
Three Common Chameleons.
- Romer, Capt.
One Red-fronted Lemur.
- Rooke, Major.
Two Spanish Terrapins.
- Rose, C. A., Esq.
One Malbrouck Monkey.
- Russell, Lord Arthur, M.P., F.Z.S.
Two Edible Snails.
- Russell, Claud, Esq.
Two Green Lizards.
- Sandeman, Fleetwood, Esq., F.Z.S.
Two Spanish Ichneumons.
- Sandford, Sir Hubert.
Two Laughing Kingfishers.
- Sandford, L. A., Esq.
One Common Viper.
- 30 St. John, Col., F.Z.S.
One Bactrian Camel.
- St. Quintin, W. H., Esq.
One Gold Pheasant.
- Scott, W. Macmillan, Esq.
One Mona Monkey.
- Seaton, George, Esq.
One Pike.
- Sewell, C. Drake, Esq.
One White-fronted Capuchin.
- Sexton, J., Esq.
One Stanley Crane, one Senegal Chameleon.
- Seyd, Richard, Esq., F.Z.S.
One Orange-winged Amazon.
- Sharpe, J. E., Esq.
One Central-American Agouti.

- Sherlock, H. P., Esq.
Two Malbrouck Monkeys.
- Shewell, H. W. M., Esq.
One Sykes's Monkey.
- Short, R. J., Esq.
One Macaque Monkey.
- Skarrett, C. E., Esq.
One Diamond Snake.
- Smith, Sir Charles C., Bart.
One Roseate Cockatoo.
- Smith, Mrs. Martin.
One Leadbeater's Cockatoo.
- Smith, Mr. C. R.
One Grey Ichneumon.
- Smith, Capt. C. Holled.
One Black-backed Jackal.
- Smyth, Frank, Esq.
One Rhesus Monkey.
- Snow, Mr. J.
One Common Adder.
- Southey, the Hon.
One Tawny Eagle.
- Stanley, Mr. W. K.
One Common Kestrel, one Common Hare.
- Steer, Capt. T. G.
One White-crested Touracou.
- Stevenson, George, Esq.
Two Common Peafowls.
- Stewart, A. D. M., Esq.
One Common Rhea.
- Stewart, C., Esq.
One Common Marmoset, one Black-eared Marmoset.
- Stockham, Capt. H. H.
One Black-footed Penguin.
- Stradling, Dr. Arthur, C.M.Z.S.
Two Talpacoti Ground-Doves, one Plumbeous Snake,
two Taraquira Lizards, one Orange-shanked Tree-
Frog, three Horrid Rattlesnakes, ten Ocellated
Bladder-Frogs, one d'Orbigny's Snake, one Long-
headed Snake, one Common Ocelot, one Thick-
necked Tree-Boa, one Deadly Snake, one Brazilian
Tanager.
- Streatfield, A. E. C., Esq.
Two Stock-Doves.

- Supple, Mrs.
One Red-and-Blue Macaw.
- Swaine, Duncan W. B., Esq.
Two Dwarf Chameleons.
- Swaysland, Mr.
Two Grey Wagtails.
- Tanner, Brigadier-General.
One Bennett's Gazelle.
- Thompson, Mr. R. W.
One Tench.
- Thompson, J., Esq.
One Bonnet-Monkey.
- Thomson, Mr. W.
One Macaque Monkey.
- Thorn, James, Esq.
One Green Lizard.
- Thornburgh-Cropper, Mr.
One Chacma Baboon.
- Tower, Arthur, Esq.
One Grey Ichneumon.
- Trelawney, Edward, Esq.
Two Laughing Kingfishers.
- Trent, Mr. W.
One Rhesus Monkey.
- Trotman, Mr. F.
Two Common Lobsters, a Collection of Hermit-Crabs,
a Collection of Marine Fishes.
- Usher, F., Esq.
Two Common Kestrels.
- Voules, the Rev. F. P.
One Common Genet.
- Walters, Lieut.-Col. F. D., 82nd Regiment.
Two Common Squirrels.
- Ward, Mr. J.
One Spider-Crab.
- Wardroper, Capt. W. F.
One Collared Peccary.
- Waters, W., Esq.
One Bateleur Eagle.
- Weil, Messrs., Bros.
Ten Green Turtles.
- Wellford, James, Esq.
One Eyed Lizard.

- Wellford, John, Esq.
One Bordeaux Snake, two Green Lizards, one Eyed Lizard, four Viperine Snakes, three Lacertine Snakes.
- Wells, Ernest, Esq.
One Marsh Ichneumon.
- White, Mr. G.
Two Vulpine Phalangers.
- White, E. W., Esq.
One Ornamental Ceratophrys
- Williams, Col. Owen, M.P., F.Z.S.
One Tiger.
- Willins, Mr. George.
One Black-eared Marmoset.
- Wix, the Rev. J. A.
Two Long-eared Owls.
- Wormald, Mr.
One Common Hare.
- Wyatt, Mr. A. W.
One Rufous Rat-Kangaroo.
- Wyld, Capt.
One Chacma Baboon.
- Young, J., Esq.
One Common Jay.
- Young, W., Esq.
One Pileated Jay.
- Zohrab, Reginald, Esq.
Two Arabian Gazelles, three Domestic Pigeons, two Domestic Pigeons.
- Zurcher, Fritz, Esq.
One American Tapir.

Conclusion.

In concluding their fifty-third Report, the Council have to acknowledge, with many thanks, the assistance they have received from the Committee of Publication, and from the gentlemen who have served upon the Committees of Finance and Audit during the past year.

Signed (for the Council),

P. L. SCLATER,

Secretary.

11 Hanover Square, April 29th, 1882.

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

Appointed January 19, 1882.

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THE Committee of Auditors to the Zoological 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, 1881, 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, and a Report thereon.

## RECEIPTS.

|                                          |                                    |        |    | £   | s.     | d. |    |
|------------------------------------------|------------------------------------|--------|----|-----|--------|----|----|
| Balance brought from Dec. 31, 1880 ..... |                                    |        |    | 879 | 14     | 2  |    |
| INCOME.                                  |                                    |        |    |     |        |    |    |
|                                          |                                    | £      | s. | d.  | £      | s. | d. |
| 1877                                     | Garden Sales .....                 |        |    |     | 6      | 0  | 0  |
| 1878                                     | { Admission Fees .....             | 5      | 0  | 0   | 8      | 0  | 0  |
|                                          | { Subscriptions .....              | 3      | 0  | 0   |        |    |    |
| 1879                                     | { Garden Sales .....               | 20     | 0  | 0   | 57     | 19 | 0  |
|                                          | { Subscriptions .....              | 36     | 0  | 0   |        |    |    |
|                                          | { Publication Sales.....           | 1      | 19 | 0   |        |    |    |
| 1880                                     | { Rent for Freehold Premises ..... | 75     | 0  | 0   | 622    | 8  | 8  |
|                                          | { Garden Sales .....               | 264    | 3  | 0   |        |    |    |
|                                          | { Admission Fees .....             | 85     | 0  | 0   |        |    |    |
|                                          | { Subscriptions .....              | 54     | 0  | 0   |        |    |    |
|                                          | { Publication Sales .....          | 144    | 5  | 8   |        |    |    |
| 1881                                     | { Admissions to Gardens .....      | 15,113 | 17 | 6   | 24,985 | 11 | 2  |
|                                          | { Rent for Refreshment Rooms.....  | 1,084  | 6  | 8   |        |    |    |
|                                          | { Rent for Freehold Premises ..... | 225    | 0  | 0   |        |    |    |
|                                          | { Garden Sales .....               | 172    | 10 | 3   |        |    |    |
|                                          | { Admission Fees .....             | 510    | 0  | 0   |        |    |    |
|                                          | { Compositions .....               | 600    | 0  | 0   |        |    |    |
|                                          | { Subscriptions .....              | 6,328  | 13 | 0   |        |    |    |
|                                          | { Ivory Tickets .....              | 37     | 6  | 0   |        |    |    |
|                                          | { Publication Subscriptions .....  | 528    | 3  | 0   |        |    |    |
|                                          | { Publication Sales .....          | 291    | 8  | 8   |        |    |    |
|                                          | { Dividends (Davis Bequest) .....  | 74     | 3  | 7   |        |    |    |
|                                          | { Miscellaneous .....              | 20     | 2  | 6   |        |    |    |
| 1882                                     | { Subscriptions .....              | 114    | 0  | 0   | 130    | 16 | 0  |
|                                          | { Ivory Tickets .....              | 1      | 1  | 0   |        |    |    |
|                                          | { Publication Subscriptions .....  | 15     | 15 | 0   |        |    |    |
| INCOME RECEIVED IN 1881 .....            |                                    |        |    |     | 25,810 | 14 | 10 |
| Temporary Loans from the Bankers.....    |                                    |        |    |     |        |    |    |
|                                          |                                    |        |    |     | 1,200  | 0  | 0  |
|                                          |                                    |        |    |     | 27,890 | 9  | 0  |

## PAYMENTS.

| EXPENDITURE.                                              | Belonging to |             | Total.     |
|-----------------------------------------------------------|--------------|-------------|------------|
|                                                           | 1880.        | 1881.       |            |
|                                                           | £ s. d.      | £ s. d.     | £ s. d.    |
| Rent, Rates, Taxes, and Insurances..Gardens               | 281 12 8     | 828 6 5     | 1,109 19 1 |
| Ditto ditto .....Office                                   | 23 1 9       | 71 18 7     | 95 0 4     |
| Salaries, Wages, and Pensions .....Gardens                |              | 3,439 10 4  | 3,439 10 4 |
| Ditto ditto .....Office                                   |              | 1,822 18 6  | 1,822 18 6 |
| Cost and Carriage of Animals.....                         | 332 0 4      | 867 5 6     | 1,199 5 10 |
| Provisions .....                                          | 342 8 3      | 4,627 14 5  | 4,970 2 8  |
| Menagerie Expenses .....                                  | 232 3 8      | 3,193 10 0  | 3,425 13 8 |
| Keepers' Dresses.....                                     | 2 10 6       | 154 12 0    | 157 2 6    |
| Works, Materials .....Gardens                             | 400 0 9      | 2,888 1 10  | 3,288 2 7  |
| Ditto ditto .....Office                                   | 42 2 8       | 79 10 6     | 121 13 2   |
| Garden Expenses .....                                     | 10 2 3       | 886 6 10    | 896 9 1    |
| Advertisements .....                                      | 44 17 11     | 200 11 5    | 245 9 4    |
| Band Expenses .....                                       |              | 221 8 0     | 221 8 0    |
| House and Office Expenses .....Gardens                    | 22 19 3      | 234 15 3    | 257 14 6   |
| Ditto ditto .....Office                                   | 61 4 5       | 377 2 4     | 438 6 9    |
| Stationery .....                                          | 14 9 9       | 64 11 11    | 79 1 8     |
| Printing ... ..                                           | 22 14 0      | 370 11 6    | 393 5 6    |
| Cost of Publications .....                                | 224 15 0     | 2,355 14 10 | 2,580 9 10 |
| Library Expenses .....                                    | 92 10 3      | 422 9 2     | 514 19 5   |
| Returned Subscriptions .....                              |              | 26 7 0      | 26 7 0     |
| Grant to the Zoological Record Association .....          |              | 50 0 0      | 50 0 0     |
| Law Expenses.....                                         | 3 13 2       |             | 3 13 2     |
| Expenditure of Davis Bequest .....                        |              | 76 18 0     | 76 18 0    |
| Interest on Mortgage Debt.....                            |              | 273 14 9    | 273 14 9   |
|                                                           | 2,153 6 7    | 23,533 19 1 | 25,687 5 8 |
| Repaid Messrs. Drummond on account of Mortgage Debt ..... |              |             | 1,000 0 0  |
| Cash at the Banker's, December 31, 1881, viz. {           |              | £686 2 4    |            |
| General Account .....                                     |              | 517 1 0     |            |
| Petty Cash Account ...                                    |              |             | 1,203 3 4  |
|                                                           |              |             | 27,890 9 0 |

*Comparison of Receipts in 1880 and 1881.*

| <i>Receipts.</i>                               |             |              |               |              |
|------------------------------------------------|-------------|--------------|---------------|--------------|
|                                                | Income of   |              | Increase.     | Decrease.    |
|                                                | 1880.       | 1881.        |               |              |
|                                                | £ s. d.     | £ s. d.      | £ s. d.       | £ s. d.      |
| <b>Admission Fees:—</b>                        |             |              |               |              |
| Past.....                                      | 90 0 0      | 90 0 0       |               |              |
| Present.....                                   | 615 5 0     | 510 0 0      |               | 105 5 0      |
| <b>Annual Subscriptions:—</b>                  |             |              |               |              |
| Past.....                                      | 63 0 0      | 93 0 0       | 30 0 0        |              |
| Present.....                                   | 6,508 8 0   | 6,328 13 0   |               | 179 15 0     |
| Future.....                                    | 138 3 0     | 114 0 0      |               | 24 3 0       |
| Compositions.....                              | 1,020 0 0   | 600 0 0      |               | 420 0 0      |
| Ivory Tickets.....                             | 39 18 0     | 38 7 0       |               | 1 11 0       |
| Admissions to Gardens..                        | 15,786 12 0 | 15,113 17 6  |               | 672 14 6     |
| Garden Sales.....                              | 329 10 3    | 462 13 3     | 133 3 0       |              |
| Rent for Refreshment<br>Rooms.....             | 1,107 0 0   | 1,084 6 8    |               | 22 13 4      |
| Rent for Premises in<br>Oxford Street.....     | 300 0 0     | 300 0 0      |               |              |
| Publications.....                              | 975 11 4    | 981 11 4     | 6 0 0         |              |
| Dividends.....                                 | 74 6 9      | 74 3 7       |               | 0 3 2        |
| Miscellaneous.....                             | 340 5 11    | 20 2 6       |               | 320 3 5      |
|                                                | 27,388 0 3  | 25,810 14 10 | 169 3 0       | 1,746 8 5    |
| Decrease.....                                  |             | 1,577 5 5    | Ded. Incr.    | 169 3 0      |
|                                                | 27,388 0 3  | 27,388 0 3   |               | 1,577 5 5    |
| Total Receipts in 1881.....                    |             |              | £25,810 14 10 |              |
| Total Payments in 1881.....                    |             |              | 25,687 5 8    |              |
| Receipts over Payments.....                    |             |              | 123 9 2       |              |
| <hr/>                                          |             |              |               |              |
| <i>Dr.</i>                                     | <i>Cash</i> |              |               |              |
|                                                |             |              |               | £ s. d.      |
| To Balance brought from December 31, 1880..... |             |              |               | 879 14 2     |
| To Income received in the Year.....            |             |              |               | 25,810 14 10 |
| To Temporary Loans from the Bankers.....       |             |              |               | 1,200 0 0    |
|                                                |             |              |               | 27,890 9 0   |

*Comparison of Payments in 1880 and 1881.*

| <i>Payments.</i>                                                  |                              |                              |                              |                              |
|-------------------------------------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
|                                                                   | Expenditure of               |                              | Increase.                    | Decrease.                    |
|                                                                   | 1880.                        | 1881.                        |                              |                              |
|                                                                   | <i>£</i> <i>s.</i> <i>d.</i> | <i>£</i> <i>s.</i> <i>d.</i> | <i>£</i> <i>s.</i> <i>d.</i> | <i>£</i> <i>s.</i> <i>d.</i> |
| Arrears of previous years . . . .                                 | 2,124 8 6                    | 2,153 6 7                    | 28 18 1                      | .....                        |
| Rent, Rates, Taxes, and Insurance . . . . .                       | 857 5 4                      | 900 5 0                      | 42 19 8                      | .....                        |
| Salaries, Wages, and Pensions . . . . .                           | 5,160 1 2                    | 5,262 8 10                   | 102 7 8                      | .....                        |
| Cost and Carriage of Animals                                      | 1,494 14 5                   | 867 5 6                      | .....                        | 627 8 11                     |
| Provisions . . . . .                                              | 4,676 13 4                   | 4,627 14 5                   | .....                        | 48 18 11                     |
| Menagerie Expenses . . . . .                                      | 2,808 17 6                   | 3,193 10 0                   | 384 12 6                     | .....                        |
| Keepers' Dresses . . . . .                                        | 144 12 0                     | 154 12 0                     | 10 0 0                       | .....                        |
| Works, Repairs, and Materials . . . . .                           | 3,922 0 11                   | 2,967 12 4                   | .....                        | 954 8 7                      |
| Garden Expenses . . . . .                                         | 792 18 0                     | 886 6 10                     | 93 8 10                      | .....                        |
| Advertisements . . . . .                                          | 213 18 11                    | 200 11 5                     | .....                        | 13 7 6                       |
| Band Expenses . . . . .                                           | 223 4 0                      | 221 8 0                      | .....                        | 1 16 0                       |
| House and Office Expenses . . . . .                               | 641 5 0                      | 611 17 7                     | .....                        | 29 7 5                       |
| Stationery and Account Books                                      | 70 16 2                      | 64 11 11                     | .....                        | 6 4 3                        |
| Printing (Miscellaneous) . . . . .                                | 397 4 3                      | 370 11 6                     | .....                        | 26 12 9                      |
| Publications . . . . .                                            | 1,835 10 11                  | 2,355 14 10                  | 520 3 11                     | .....                        |
| Library Expenses . . . . .                                        | 664 7 7                      | 422 9 2                      | .....                        | 241 18 5                     |
| Returned Subscriptions . . . . .                                  | 114 15 0                     | 26 7 0                       | .....                        | 88 8 0                       |
| Grant in aid of Science . . . . .                                 | 50 0 0                       | 50 0 0                       | .....                        | .....                        |
| Expenditure of Davis Bequest                                      | 74 1 0                       | 76 18 0                      | 2 17 0                       | .....                        |
| Interest on Mortgage-debt . . . . .                               | 312 13 4                     | 273 14 9                     | .....                        | 38 18 7                      |
|                                                                   | 26,579 7 4                   | 25,687 5 8                   | 1,185 7 8                    | 2,077 9 4                    |
| Decrease . . . . .                                                | .....                        | 892 1 8                      | Ded. Incr.                   | 1,185 7 8                    |
|                                                                   | 26,579 7 4                   | 26,579 7 4                   | .....                        | 892 1 8                      |
| Ordinary Payments . . . . .                                       | 24,753 9 5                   | 24,651 4 3                   | .....                        | 102 5 2                      |
| Extraordinary ditto . . . . .                                     | 1,825 17 11                  | 1,036 1 5                    | .....                        | 789 16 6                     |
|                                                                   | 26,579 7 4                   | 25,687 5 8                   | .....                        | 892 1 8                      |
| <i>Contra</i> <span style="float: right;"><i>Cr.</i></span>       |                              |                              |                              |                              |
| By Expenditure paid in the year . . . . .                         |                              |                              | <i>£</i> <i>s.</i> <i>d.</i> |                              |
| By Repayment to Messrs. Drummond on account of Mortgage . . . . . |                              |                              | 25,687 5 8                   |                              |
| By Balance at Bankers', December 31, 1881 . . . . .               |                              |                              | 1,000 0 0                    |                              |
|                                                                   |                              |                              | 1,203 3 4                    |                              |
|                                                                   |                              |                              | 27,890 9 0                   |                              |

The Assets and Liabilities of the Society on the 31st of December 1881 were as follow:—

| ASSETS.                                                                                                         |                    |                  |                                     |          |            |
|-----------------------------------------------------------------------------------------------------------------|--------------------|------------------|-------------------------------------|----------|------------|
|                                                                                                                 | Arrears of         |                  | Freehold and<br>Funded<br>Property. | Cash.    | Total.     |
|                                                                                                                 | Previous<br>Years. | Current<br>Year. |                                     |          |            |
|                                                                                                                 | £ s. d.            | £ s. d.          | £ s. d.                             | £ s. d.  | £ s. d.    |
| Cash at the Banker's                                                                                            |                    |                  |                                     | 1203 3 4 | 1203 3 4   |
| Cost of £1900<br>Lond. & South-<br>western Ry. Co's<br>New 4 per Cent.<br>Preference Stock<br>(Davis Trust) ... |                    |                  | 1,938 9 6                           |          | 1,938 9 6  |
| Freehold Premises.                                                                                              |                    |                  | *24,745 0 0                         |          | 24,745 0 0 |
| Annual Subscrip-<br>tions.....                                                                                  | 34 0 0             | 138 0 0          |                                     |          | 172 0 0    |
| Ivory Tickets .....                                                                                             | 1 1 0              | 3 3 0            |                                     |          | 4 4 0      |
| Publication Sales...                                                                                            | 19 11 6            | 145 13 4         |                                     |          | 165 4 10   |
| Garden Sales .....                                                                                              | 3 13 0             | 65 4 9           |                                     |          | 68 17 9    |
| Rent for Refresh-<br>ment Rooms ...                                                                             |                    | 48 10 0          |                                     |          | 48 10 0    |
| Rent for Freehold<br>Premises .....                                                                             |                    | 75 0 0           |                                     |          | 75 0 0     |
|                                                                                                                 | 58 5 6             | 475 11 1         | 26,683 9 6                          | 1203 3 4 | 28,420 9 5 |

  

| LIABILITIES.                               |           |           |
|--------------------------------------------|-----------|-----------|
|                                            | Debts.    |           |
|                                            | £ s. d.   | £ s. d.   |
| Bills, &c., estimated at—                  |           |           |
| For the Gardens, say .....                 | 1013 9 2  |           |
| Office, say.....                           | 231 13 5  |           |
|                                            |           | 1245 2 7  |
| Rent and Taxes unpaid—                     |           |           |
| For the Gardens, say .....                 | 272 18 10 |           |
| Office, say.....                           | 25 18 0   |           |
|                                            |           | 298 16 10 |
| Messrs. Drummond, Mortgage Debt .....      |           | 6000 0 0  |
| Temporary Loan had November 18, 1881 ..... |           | 200 0 0   |
| Ditto ditto December 21, 1881 .....        |           | 1000 0 0  |
|                                            |           | 8743 19 5 |

\* This is the estimate of Messrs. Widnell and Trollope plus the addition of £225 annually until the expiration of Messrs. Purdey's lease. The sum paid was £22,225 on June 24, 1877.

The Auditors are sorry to have to report that the income of the Society has suffered some diminution during the past year. The Admissions to the Gardens have yielded £672 less than in the previous year. The severity of last winter and the bad weather throughout the greater part of the year will, in a measure, account for this. But, notwithstanding this drawback, the Expenditure has been kept well within the Income; the only items of expenditure which appear somewhat large are those under the heads of "Menagerie" and "Publications."

It should be remembered that in the statement of Assets no account of the most valuable property of the Society (namely, its collection of Animals and its extensive Library) has been entered.

The Auditors have much pleasure in expressing their satisfaction with the manner in which the Books have been placed before them by Mr. Barrow, the Society's Accountant.

JOHN BIDDULPH.  
ALFRED E. CRAVEN.  
HERBERT DRUCE.  
CHARLES H. GATTY.  
W. H. HUDLESTON.

11 *Hanover Square, W.*

*February 23, 1882.*



NEW REPTILE HOUSE.

From 1882 Annual Report