

REPORT  
OF THE  
COUNCIL  
OF THE  
ZOOLOGICAL SOCIETY  
OF LONDON,  
FOR THE YEAR 1880.

READ AT THE ANNUAL GENERAL MEETING,

APRIL 29<sup>TH</sup>, 1881.

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1881.



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# REPORT OF THE COUNCIL.

April 29, 1881.

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THE Council have the pleasure of submitting to the Fellows their fifty-second 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 1880 amounted to 3309. Of these there were:—

Compounders who have paid £20 . . . . .	67
Ditto ditto £30 . . . . .	864
Compositions remitted . . . . .	18
Paying annual contributions of £2 . . . . .	57
Ditto ditto £3 . . . . .	2155
Dormant . . . . .	120
Admission-fees unpaid . . . . .	28
	<hr/>
	3309

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.	Fees remitted	£2.	£3.	£2.	£3.		£2.	£3.			
1871.	163	4	8	...	10	38	1	48	...	2	26	...	137	3047
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

*b. Corresponding Members.*

The following Corresponding Members were elected during the year 1880 to fill vacancies in the list:—

Dr. Anton Reichenow, of the Royal Zoological Museum, Berlin.

Dr. Louis Lortet, Director of the Museum of Natural History, Lyons.

Dr. J. Hjalmar Théel, of Upsala, Sweden.

Dr. Arthur Stradling, of the Royal Mail Steam-Shipping Company's Service.

Dr. Stephen Wootton Bushell, of H.B.M. Legation, Pekin.

Dr. Emil Holub, of Prague.

W. B. Pryer, Esq., of Sandakan, Borneo.

Dr. Max Schmidt, Director of the Zoological Garden, Frankfort-on-the-Main.

Mr. C. Ernest Pope, of Alice, Victoria East, South Africa.

Mr. Wilfrid Powell, of Thursday Island, Torres Straits.

2. STATE OF THE FINANCES.

*a. Income.*

As will be seen by the subjoined comparative statement, the Income of 1880 shows a considerable increase over



that of the previous year. The total receipts amounted to £27,388 0s. 3d. in 1880 as against £26,463 3s. 6d. for 1879. The chief sources from which the augmentation of £924 16s. 9d. was derived were Admissions to the Gardens and Compositions, both of which heads compare favourably with the corresponding amounts in the previous year. It should be noted, however, that the increase of the Miscellaneous receipts is due to Mr. Gatty's kind present of the band-stand hereinafter mentioned.

*Comparison of Receipts in 1879 and 1880.*

	Income of		Increase.	Decrease.
	1879.	1880.		
Admission Fees:—				
Past .....	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Present .....	110 0 0	90 0 0		20 0 0
Annual Subscriptions:—				
Past .....	585 0 0	615 5 0	30 5 0	
Present .....	66 0 0	63 0 0		3 0 0
Future .....	6,550 9 0	6,508 8 0		42 1 0
Compositions .....	78 0 0	138 3 0	60 3 0	
Ivory Tickets .....	900 0 0	1,020 0 0	120 0 0	
Admissions to Gardens .....	41 10 0	39 18 0		1 12 0
Garden Sales .....	15,215 7 0	15,786 12 0	571 5 0	
Rent for Refreshment-rooms ...	401 9 8	329 10 3		71 19 5
Rent for Premises in Oxford Street .....	1,223 1 8	1,107 0 0		116 1 8
Publications .....	300 0 0	300 0 0		
Dividends .....	881 8 9	975 11 4	94 2 7	
Miscellaneous .....	74 8 4	74 6 9		0 1 7
	36 9 1	340 5 11	303 16 10	
Increase .....	26,463 3 6	27,388 0 3	1,179 12 5	254 15 8
	924 16 9		254 15 8	Ded. Decr.
	27,388 0 3	27,388	924 16 9	

The balance carried forward from 1879 was £1071 1s. 3d. Adding this to the Income received in 1880 (£27,388 0s. 3d.) we find a total amount of £28,459 1s. 6d. available for the expenditure of the year.

*b. Expenditure.*

This amount was disposed of in the following manner:— The sum of £24,753 9s. 5d. was required for the ordinary expenditure of the year. The extraordinary expenditure during the same period amounted to £1825 17s. 11d.



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 £879 14s. 2d., which was carried forward for the benefit of the present year.

It will be observed that the ordinary expenditure of 1880, under which is placed every item required for maintaining the Society's whole establishment in a perfect state of efficiency, was £845 3s. 4d. more than in 1879. This increase is attributable mainly to the augmented cost of provisions (£496 5s. 1d.) and to the large expenditure on ordinary works and repairs (£2930 3s. 5d. against £2134 2s. 1d.), which will be explained in a subsequent part of the Report.

*Comparison of Payments in 1879 and 1880.*

	Expenditure of		Increase.	Decrease.								
	1879.	1880.										
	£	s.	d.	£	s.	d.	£	s.	d.			
Arrears of previous years .....	2,267	9	2	2,124	8	6	.....	143	0	8		
Rent, Rates, Taxes, and Insurance .....	985	15	7	857	5	4	.....	128	10	3		
Salaries, Wages, and Pensions...	5,106	16	6	5,160	1	2	53	4	8	.....		
Cost and Carriage of Animals ...	1,349	9	2	1,494	14	5	145	5	3	.....		
Provisions .....	4,180	8	3	4,676	13	4	496	5	1	.....		
Menagerie Expenses .....	2,785	12	8	2,808	17	6	23	4	10	.....		
Keepers' Dresses .....	141	18	0	144	12	0	2	14	0	.....		
Works, Repairs, and Materials .	2,892	11	3	3,922	0	11	1,029	9	8	.....		
Buildings.....	200	0	0	.....	.....	.....	.....	200	0	0		
Garden Expenses.....	843	6	9	792	18	0	.....	50	8	9		
Advertisements.....	229	17	2	213	18	11	.....	15	18	3		
Band Expenses .....	221	8	0	223	4	0	1	16	0	.....		
House and Office Expenses .....	601	0	7	641	5	0	40	4	5	.....		
Stationery and Account Books...	62	16	2	70	16	2	8	0	0	.....		
Printing (Miscellaneous) .....	391	4	0	397	4	3	6	0	3	.....		
Publications .....	2,044	17	7	1,835	10	11	.....	209	6	8		
Library Expenses.....	322	0	0	664	7	7	342	7	7	.....		
Returned Subscriptions .....	43	8	0	114	15	0	71	7	0	.....		
Grant in aid of Science .....	50	0	0	50	0	0	.....	0	7	4		
Expenditure of Davis Bequest ...	74	8	4	74	1	0	.....	39	16	8		
Interest on Mortgage Debt .....	352	10	0	312	13	4	.....	.....	.....	.....		
	25,146	17	2	26,579	7	4	2,219	18	9	787	8	7
Increase .....	1,432	10	2	.....	.....	.....	787	8	7	Ded. Decr.	.....	.....
	26,579	7	4	26,579	7	4	1,432	10	2	.....	.....	.....

Of these payments, the items charged to the extraordinary expenditure in 1880 were as follows:—



*Extraordinary Expenditure paid in 1880.*

I. <i>Buildings:</i>			£	s.	d.	
Raising House at Hanover Square an additional story	396	3	0			
II. <i>Works in Gardens:</i>			£	s.	d.	
Repair of Slip on Canal-bank .....	166	10	6			
The Insectorium .....	286	0	11			
New Paths and Roads in North Gardens .	88	8	11			
Re-erecting Crows' Cages.....	178	16	11			
New Band-stand .....	308	10	11			
Enlargement of the Prosector's Office ..	94	18	11			
Burning ballast for new Reptile House ..	31	8	3			
				1154	15	4
III. <i>Library Expenses:</i>						
New Library-rooms and fittings .....	105	19	1			
New Library Catalogue .....	119	0	6			
				224	19	7
IV. <i>Grant in aid of Science:</i>						
In aid of the Zoological Record .....				50	0	0
Belonging to 1879.....	559	0	10			
Belonging to 1880.....	1266	17	1			
				1825	17	11

*c. Assets and Liabilities.*

The Assets and Liabilities of the Society on the 31st of December 1880 were estimated as follow:—

ASSETS.						
	Arrears of		Freehold and Funded Property.	Cash.	Total.	
	Previous Years.	Current Year.				
	£	s.	d.	£	s.	d.
Cash at the Banker's						
Cost of £1900				879	14	2
Lond. & South- western Ry. Co.'s New 4 per Cent. Preference Stock.			1,938		1,938	9 6
Freehold Premises			24,490		24,490	0 0
Annual Subscrip- tions .....	98	0	78			176 0 0
Ivory Tickets .....						2 2 0
Publication Sales...	18	3	210			229 1 11
Garden Sales .....	8	2	53			61 13 9
Rent for Freehold Premises .....			75			75 0 0
	124	6	419	879	14	27,852 1 4
			8	26,428	9	6



LIABILITIES.								
			Debts.					
			£	s.	d.	£	s.	d.
Bills, &c., estimated at—								
	For the Gardens, say .....		1345	7	9			
	Office, say .....		425	1	2			
			<hr/>			1770	8	11
Rent and Taxes unpaid—								
	For the Gardens, say .....		285	2	10			
	Office, say .....		23	1	9			
			<hr/>			308	4	7
Messrs. Drummond, Mortgage Debt .....						7000	0	0
			<hr/>			9078	13	6

The amount paid for the freehold of the Society's premises (No. 11 Hanover Square and No. 314½ Oxford Street) was £22,225. To this amount must be added the value of the lease of the Hanover-Square portion held by the Society, which, at the time of the purchase, was estimated to be £1500, making the total value of the freehold at the date of the purchase £23,725. To this sum, in order to arrive at the total value of the freehold, an addition (of £225) is made annually in respect of the increasing value of the premises in Oxford Street, the lease of which will run out on the 29th of September, 1882.

## II. OFFICE, 11 HANOVER SQUARE.

### 1. EXTENSION OF PREMISES.

The extension of the premises in the Society's House in Hanover Square, which was spoken of in the last Annual Report and carried out in the autumn of 1879, involved a charge of £396 3s. upon the expenditure of the present year for building-purposes. Besides this a sum of £105 19s. 1d. was devoted to the rearrangement of the shelves and cases in the Librarian's department.

The Council believe that these alterations have given



general satisfaction to the Fellows who use the Library. The additional accommodation thus provided has rendered the back room on the second floor available for the use of readers, and has also given ample space for additions in the new large room on the upper story.

## 2. SCIENTIFIC MEETINGS.

To the fourteen meetings for the despatch of scientific business held in the Society's Rooms in Hanover Square in 1880, 131 communications were made. Of these, 99 were from Fellows, 3 from Foreign Members, and 15 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 1879 was 144.

These communications were submitted to the Committee of Publication, by whom the following orders were made respecting them: 7 were ordered to be printed entire in the 'Transactions' of the Society, and 93 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 the Society's 'Proceedings' for 1880, which is now on the table, contains 743 pages, illustrated by 64 (mostly coloured) plates.

Two Parts of the Society's 'Transactions' were issued during the year 1880, namely:—

### VOL. XI. PART I. (January, 1880).

On the External Characters of two Species of British Dolphins (*Delphinus delphis*, Linn., and *D. tursio*, Fabr.). By William Henry Flower, LL.D., F.R.S., P.Z.S., &c. (with one coloured plate).

Description of a Portion of Mandible and Teeth of a large extinct Kangaroo (*Palorchestes crassus*, Ow.) from ancient fluviatile Drift, Queensland. By Prof. Owen, C.B., F.R.S., F.Z.S. (with one plate).

On the Brain and other parts of the Hippopotamus (*H. amphibius*). By A. H. Garrod, M.A., F.R.S., Prosector to the Society (with two plates).



## VOL. XI. PART II. (August, 1880).

Further Observations on the Manatee. By James Murie, M.D., LL.D., F.G.S., Assist. Secretary Linnean Society (with five plates).

On the Intestinal Spiral Valve in the genus *Raia*. By T. Jeffrey Parker, B.Sc., Assoc. R.S.M., Lecturer on Biology in Bedford College, London, and Demonstrator in the Royal School of Mines (with two plates).

A Supplement to the List of Animals in the Gardens was also prepared and issued in 1880.

Since the commencement of the present year two more parts of 'Transactions' (iii. and iv.) have been issued, and two others (v. and vi.) (containing all the remaining papers ordered for publication in the 'Transactions' up to the end of 1880) are in a forward state.

A General Index to the ten volumes of 'Proceedings' from 1871 to 1880 and a General Index to the first ten volumes of 'Transactions' are in preparation.

## 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: it now contains upwards of 9000 volumes.

The books have been rearranged in classes on the new shelves, and the press-marks entered in the standard catalogue, so that every volume is readily accessible.

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

A MS. work by Colonel S. R. Tickell, containing original drawings, principally of the "Fishes of India." 2 vols., small folio. Presented by Francis Day, Esq., F.Z.S.

Odontornithes: a Monograph of the Extinct Toothed Birds of North America. By Othniel Charles Marsh. 4to, Washington, 1880. Presented by the Author.

An Introduction to the Study of Fishes. By Albert C. L. G. Günther, M.A., M.D., &c. 8vo, Edinburgh, 1880. Presented by the Author.

Pterophoridae of California and Oregon. By Thomas, Lord Walsingham. Royal 8vo, London, 1880. Presented by the Author.



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

- Barrois. Recherches sur l'Embryologie des Bryozoaires (1877).  
 Boisduval's Lepidoptères de l'Amérique septentrionale (1829).  
 Candèze's Monographie des Elatérides (1857-63).  
 'Challenger,' Voyage of H.M.S. [Zoology], vol. i. (1880).  
 Cory's Birds of the Bahama Islands (1880).  
 Cox. Handbook of the Coleoptera of Great Britain (1874).  
 Crouch. Illustrated Introduction to Lamarck's Conchology (1826).  
 D'Albertis. New Guinea (1880).  
 Dawkin's Early Man in Britain (1880).  
 Dawson's Geodephaga Britannica (1854).  
 De Geer. Mémoires pour servir à l'histoire des Insectes (1752-78).  
 Descourtilz. Voyage d'un Naturaliste (1809).  
 Donovan's Natural History of British Fishes (1802-08).  
 Du Val. Genera des Coléoptères d'Europe (1857-68).  
 Ehlers. Die Borstenwürmer [Annelida Chætopoda] (1864-68).  
 Entomologist's Annual (1855-74).  
 Geikie. Prehistoric Europe (1881).  
 Germar. Magazin der Entomologie (1813-21).  
 Gratiolet. Mémoire sur les Plis Cérébraux de l'Homme et des Primatès (1854).  
 Grenacher. Untersuchungen über das Sehorgan der Arthropoden (1879).  
 Hallez. Contributions à l'Histoire Naturelle des Turbellariés (1879).  
 Hassall. British Freshwater Algæ (1845).  
 Hincks's British Marine Polyzoa (1880).  
 His. Anatomie menschlichen Embryonen (1880).  
 Jhering. Vergleichende Anatomie des Nervensystemes und Phylogenie der Mollusken (1877).  
 Linnæa Entomologica [Zeitsch. herausg. von dem Entom. Vereine in Stettin] (1846-66).  
 McLachlan. Monographic Revision and Synopsis of the Trichoptera (1874-80).  
 Matthew's Trichopterygia (1872).  
 Maynard's Birds of Florida (1872-78).  
 Möbius. Beiträge zur Meeresfauna (1880).  
 Moniez. Essai Monographique sur les Cysticerques (1880).  
 Monthly Microscopical Journal (i.-xviii.).  
 Morphologisches Jahrbuch (1875-80).  
 Nicholson's Manual of Palæontology (2nd Ed., 1879).  
 Piaget. Les Pédiculines (1880).  
 Royle's Illustrations of the Himalayan Mountains (1833-39).  
 Sappey. Études sur l'Appareil Mucipare des Poissons (1880).  
 Schmarda. Neue Turbellarien, Rotatorien und Anneliden (1859-61).  
 Simon. Les Arachnides de France (1874-79).  
 Troschel. Das Gebiss der Schnecken (1856-79).  
 Van Vollenhoven. Beschrijvingen en Afbeeldingen van Nederlandsche Vlinders (1860-77).



- Walker's Diptera (1851-56).  
 Wallace. Island Life (1880).  
 Westwood's Arcana Entomologica (1845).  
 Westwood's Cabinet of Oriental Entomology (1848).  
 White's Natural History of Selborne (1st Ed., 1789).  
 Wiener entomologische Monatschrift (1857-64).  
 Wilkinson's British Tortrices (1859).  
 Wood's Index Testaceologicus (1856).

The following is a list of the periodicals received in 1880 from the various Societies and Institutions with which this Society is in correspondence.

#### AMERICA.

- The Museum of Comparative Zoology, Harvard College,  
 Cambridge, Mass.  
 Bulletin, vol. vi. nos. 1-11.  
 Memoirs, vol. vi. no. 1; vol. vii. nos. 1, 2, pt. 1.  
 Annual Report, 1879-80.
- The Academy of Natural Sciences, Philadelphia.  
 Proceedings, 1880.
- The American Philosophical Society, Philadelphia.  
 Proceedings, vol. xviii. nos. 103-105.
- The Franklin Institute, Washington.  
 Journal, 1880.
- The United States National Museum, Washington.  
 Bulletin, no. 18.
- The United States Geological and Geographical Survey  
 of the Territories, Washington.  
 Bulletin, vol. v. no. 4.
- The Academy of Natural Sciences, Cordova.  
 Boletin, tomo ii. et iii. entrega 1.  
 Actas, tomo i. et iii. entrega 1, 2.
- The Boston Society of Natural History.  
 Proceedings, vol. xx. part 3.
- The American Association for the Advancement of  
 Science.  
 Proceedings, 1878.



- The American Academy of Arts and Sciences, Cambridge.  
Proceedings, New Series, vol. vi. ; vol. vii. part 1.
- The New York Academy of Sciences.  
Annals, vol. i. nos. 3-13.
- The Connecticut Academy of Arts and Sciences.  
Transactions, vol. v. part 1.
- The National Museum, Rio de Janeiro.  
Archives, vols. ii. & iii. (1877-78).
- The American Entomological Society.  
Transactions, vol. vii.
- The Philosophical Society, Washington.  
Bulletin, vols. i.-iii.
- The Smithsonian Institution, Washington.  
Contributions to Knowledge, vol. xxii.  
Miscellaneous Collections, vols. xvi., xvii.  
Annual Report, 1878.

#### AUSTRALASIA.

- The Linnean Society of New South Wales, Sydney.  
Proceedings, vols. iv. & v. parts 1, 2.
- The New-Zealand Institute, Wellington.  
Transactions, vol. xii.
- The Royal Society of Victoria, Melbourne.  
Transactions, vols. xv., xvi.
- The Royal Society of New South Wales.  
Journal and Proceedings, vol. xii.
- The Zoological and Acclimatization Society of Victoria.  
Proceedings, vol. v.
- The Royal Society of Tasmania.  
Papers and Proceedings for 1878.
- The Philosophical Society of Adelaide.  
Transactions and Proceedings, 1878-79.



## BELGIUM.

## The Entomological Society of Belgium.

Annales, tom. xxii.  
Compte-Rendu, 1880.

## The Royal Museum of Natural History, Brussels.

Annales (Série Paléontologique), tome iv. part 2; and tome v.  
part 2.

## EAST INDIES.

## The Royal Society of the Dutch East Indies, Batavia.

Natuurkundig Tijdschrift, deel xxxviii.

## The Society of Arts and Sciences, Batavia.

Verhandelingen, deel xxxix. 2<sup>e</sup> stuk; deel xli. 1<sup>e</sup> stuk.  
Tijdschrift, deel xxv. afl. 1-6; deel xxvi. afl. 1.  
Notulen, deel xvi. afl. 3, 4; deel xvii. afl. 1-4.  
Register, 1867-78.

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

Journal, new series, no. xiv.

## The Asiatic Society of Bengal, Calcutta.

Proceedings, 1879, no. 10; 1880, nos. 1-8.  
Journal, vol. xlvii. (extra no.); vol. xlviii. no. 230; vol. xlix.  
nos. 231-235.

## The Geological Survey of India, Calcutta.

Memoirs, ser. x. parts 4, 5; ser. xiii. part 2; ser. xiv. part 1;  
ser. xv. part 2; ser. xvii. parts 1, 2.  
Records, vol. xiii. parts 1-4.

## FRANCE.

## The Museum of Natural History, Paris.

Nouvelles Archives, sér. 2, tome ii., iii.

## The Zoological Society of Acclimatation, Paris.

Bulletin, 1880.

## The Society Philomatique, Paris.

Bulletin, sér. 7, tome iii. nos. 3-5; tome iv. nos. 1-3.

## The Academy of Sciences, Lyons.

Annales, 4<sup>e</sup> série, tome x.; 5<sup>e</sup> série, tome i.

## The Linnean Society of Normandy, Caen.

Bulletin, 3rd ser. vols. i., ii.



## FINLAND.

## The Society of Sciences, Finland.

Öfversigt, xxi. (1878-79).

Observations Météorologiques, année 1877.

## GERMANY.

## The Royal Prussian Academy of Sciences, Berlin.

Monatsbericht, 1880.

Abhandlungen 1879-80.

## The Society of Friends of Natural History, Berlin.

Sitzungsberichte, 1879.

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

Bericht, 1879-80.

## The Zoological Society, Frankfort a. M.

Der Zoologische Garten, Jahr. xx. (1879) nos. 7-12; Jahr. xxi.  
(1880) nos. 1-6.

## The German Malacological Society, Frankfort a. M.

Jahrbücher, 1880.

## The Society of Sciences, Göttingen.

Abhandlungen, Band xxv.

## The Medical and Natural-History Society, Jena.

Jenaische Zeitschrift, Band xiv. Heft 1-4.

Denkschriften, Band i. Abh. 2.

Sitzungsberichte, 1879.

## The Royal Bavarian Academy of Sciences, Munich.

Sitzungsberichte, 1879, Heft 4; 1880, Heft 1-4.

Abhandlungen, Band xiii. Abh. 3.

## The Imperial Academy of Sciences, Vienna.

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Donations of Works, Memoirs, and Papers have also been received from:—Professor A. Agassiz; the Editors of the American Naturalist; Professor J. V. Barboza du Bocage; W. T. Blanford, Esq.; John Brazier, Esq.; the Trustees of the British Museum; Messrs. Cassell, Petter, and Galpin; Robert Collett, Esq.; Alfred E. Craven, Esq.; Monsieur Crosse; Professor James D. Dana; C. J. Danford, Esq.; D. G. Elliot, Esq.; Dr. Joseph Ewart; W. A. Forbes, Esq.; Professor H. H. Giglioli; the Museum Godeffroy; Lt.-Col. H. H. Godwin-Austen; H.



Goss, Esq.; Dr. A. Günther; Dr. H. A. Hagen; Dr. F. V. Hayden; Dr. James Hector; Dr. E. Holub; the Government of India; W. F. Kirby, Esq.; Monsieur Adrien Lacroix; Dr. J. L. Le Conte; New York State Library; New York State Museum of Natural History; Capt. M. F. Ommanney; Monsieur E. Oustalet; Professor Owen; Bernard Quaritch, Esq.; Monsieur Xavier Raspail; Professor J. Reinhardt; Dr. G. O. Sars; P. L. Sclater, Esq.; Henry Stevenson, Esq.; Professor Ralph Tate; W. B. Tegetmeier, Esq.; Professor J. Tennant; Dr. H. Troschel; the University College of London; U.S. Commission of Fish and Fisheries; Monsieur Léon Vaillant; Heer S. C. Snellen van Vollenhoven; Rowland Ward, Esq.; F. Buchanan White; Dr. R. Wiedersheim; Dr. Julius von Haast.

### III. GARDENS, REGENT'S PARK.

#### 1. BUILDINGS AND WORKS.

The expenditure on new buildings in the Society's Gardens in 1880 has again been of a somewhat restricted character. The surplus of Income over Ordinary Expenditure (which in 1880 amounted only to £2634 10s. 10d.), and the necessity of devoting part of this surplus to the reduction of the mortgage-debt on the Society's House, rendered it advisable to exercise strict economy under this head. The total sum spent upon new buildings and works in the Gardens in 1880 was therefore only £1154 15s. 4d. (against £758 9s. 2d. in 1879), which was devoted to the following seven items:—

	£	s.	d.
1. Repair of slip on Canal-bank . . . . .	166	10	6
2. Re-erection of glass building for Insectorium . . . . .	286	0	11
3. New paths and roads in North Gardens . . . . .	88	8	11
4. Re-erection of Crows' Cages . . . . .	178	16	11
5. New Band-stand . . . . .	308	10	11
6. Enlargement of Prosector's Office . . . . .	94	18	11
7. Burning ballast for new Reptile-house . . . . .	31	8	3
	<hr/>		
	£1154	15	4



(1) The state of the question between the Society and the Regent's Canal Company as to the liability for repairs of the slips on the Canal-banks has not altered since the last Anniversary. The sum of £166 10s. 6d. was expended on the repair of the slip on the north bank at the western extremity of the Gardens, under the circumstances stated in the last Report.

(2) and (3). The re-erection in the North Gardens of the iron-and-glass building which formerly served as a second-class refreshment-room was completed in 1880 at a total cost of £286 0s. 11d., including the new heating-apparatus; and the sum of £88 8s. 11d. was spent on the paths and approaches in the North Gardens.

This building has been found of great convenience during the past severe winter for the accommodation of some of the more delicate Monkeys, Birds, and Reptiles, which thrive only when kept in a continuously high temperature. In the present summer the Council have resolved to try the novel experiment of utilizing it as an Insectorium. Every endeavour will be made to keep up a collection of living Insects in it, and to make the exhibition both instructive and attractive; but it is not yet possible to say how far these endeavours will prove successful.

(4) The thorough repair and reconstruction of the Parrot-house, executed in 1880 and charged to *ordinary* Expenditure, necessitated the removal of the adjacent Crows' cages, in order that a more suitable doorway and windows might be provided on the south side of the building. These cages have been put into thorough order and re-erected as a separate building in the South Gardens, near the Western Aviary, at a cost of £178 16s. 11d.

(5) As was mentioned in the last Report, the Military Band having become a great attraction to the Fellows and Visitors during the summer months, it became advisable to provide a covered Band-stand. Mr. Charles Henry Gatty, of Felbridge Park, East Grinstead, Fellow of the Society, having intimated his wish to provide the necessary funds for this purpose, the Council had great pleasure in accepting Mr. Gatty's most liberal offer; and a new Band-stand was erected in 1880 at a cost of £308 10s. 11d., which sum was repaid to the Society by Mr. Gatty, and has therefore not really involved any cost to the Society, although, from the form in which the accounts are kept, it is necessary to specify it as an item of expenditure.



(6) There being no accommodation for occasional visitors and assistants in the Prosector's Office, the Council have determined 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 studies are now nearly finished, and will be ready for use in the course of the summer.

(7) The present Reptile-house in the Middle Garden having been long in bad repair, and not being suitably constructed for the purpose to which it is devoted, the Council have determined to build a new Reptile-house in the south-eastern corner of the South Garden, near the Reservoir. There is here a vacant spot available for the purpose, where a building 120 feet by 60 facing nearly due south may be conveniently erected. The plans for the new building are in preparation, and will require very careful study, as the subject is a difficult one, and the only other building of the kind yet attempted is that in the Jardin des Plantes at Paris.

The clearing of the ground and burning of the clay into ballast on the proposed site was commenced in December last, and the amount thus expended in 1880 (£31 8s. 3*d.*) was charged to the extraordinary expenditure of that year.

It is estimated that a sum of at least £4000 will be required for a new Reptile-house to finish it complete for use.

Besides these special works, large sums were devoted to ordinary repairs in the Society's Gardens during the past year, amounting altogether to £3128 16s. 6*d.* Amongst the buildings thoroughly overhauled and renovated may be mentioned the Eagle-aviary, of which it was found necessary to take up and relay the old floor; the Bear-pit, which has now been placed in excellent repair, and to which a new sleeping-den has been added; the Parrot-house, of which the roof required entire renewal, and where new doors and windows have been placed on the south side, and a new porch built in order to give greater protection from the weather. Besides these, many other houses were thoroughly renovated and painted during the past summer by the Society's staff of painters, amongst which may be mentioned the Hippopotamus-house, the Lion-house (outside), the Head Keeper's lodge, the Raccoons' cages, and



a portion of the greenhouses, not to speak of various other minor buildings. It is obvious that, so long as the number of buildings in the Gardens continues to be increased, as is the case now from year to year, a corresponding increase must necessarily take place in the expenditure on repairs and maintenance.

## 2. STAFF.

The permanent Staff of the Society's Gardens has been slightly increased since the last Anniversary. It consists of:—

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

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Besides these there are 19 Helpers in the Menagerie, 1 Head Gardener, 12 Garden-labourers, 9 Artisans, 4 Painters, 15 Labourers, 1 Butcher, 1 Fireman, 2 Night-Watchmen, and 1 Timekeeper employed at weekly wages; so that the number of the whole staff may be reckoned at about 97 persons, against 93 at the corresponding period last year.

## 3. VISITORS.

The total number of visitors to the Society's Gardens during the year 1880 was 675,979, as will be seen by the following Table, which gives the corresponding numbers of entrances under each head for 1879 and 1880:—



*Visitors to the Gardens.*

	1879.	1880.	Comparison.	
Fellows and Friends .....	169,737	190,695	Incr. 20,958	
Paying {	On ordinary days at 1s. each...	151,808	156,560	Incr. 4,752
	On Mondays and other days	259,931	271,148	Incr. 11,217
	at 6d. each .....			
Children under 12 years at	45,067	44,793	Decr. 274	
Charity Children .....	16,457	12,783	Decr. 3,674	
	643,000	675,979	Incr. 32,979	

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 1880.

*Number of Visitors to the Gardens, 1828-80.*

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		

\* Year of the Great Exhibition.

† Year of the International Exhibition.



## 4. 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 16th.

The following is a list of the subjects :—

Date.	Subject.	Lecturer.
1. Thursday, June 16 ...	Whales .....	Prof. Flower, LL.D., F.R.S.
2. " " 23 ...	Dolphins.....	Prof. Flower, LL.D., F.R.S.
3. " " 30 ...	Extinct British Quadrupeds	J. E. Harting, Esq.
4. " July 7 ...	The Limbs of Birds .....	Prof. W. K. Parker, F.R.S.
5. " " 14 ...	Birds, ancient and modern .	W. A. Forbes, Esq.
6. " " 21 ...	Zoological Gardens .....	P. L. Sclater, Esq., F.R.S.
7. " " 28 ...	Chameleons .....	Prof. Mivart, F.R.S.

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

## 5. PROSECTOR'S DEPARTMENT.

Mr. W. A. Forbes, the Society's Prosector, reports that during the past year the number of deaths amongst the animals in the Gardens showed a slight decrease over that in the preceding year.

Very few serious losses have occurred, and, as usual, by far the greatest mortality (probably about 50 per cent.) occurred amongst the newly-arrived animals. These frequently reach us in a very weak state, after a prolonged voyage, and consequently never recover, even when placed in most favourable conditions.

As showing that animals, when once fairly established, may live for very considerable periods (in fact for probably their natural term of life) in captivity, it may be mentioned that the old female Polar Bear, which died early in the year, had lived in the Gardens for about 34 years; a Fruit-eating Bat (*Pteropus medius*), that also died, had been in the Monkey-house for more than 17 years. Both these animals showed no traces of organic disease, and probably died of old age.

As already noticed in previous reports, tuberculosis, in



various forms, continues to be the chief cause of death when the cause is ascertainable; but a great number of animals succumb suddenly without previous symptoms, and without leaving any cause of death ascertainable on *post-mortem* examination.

A fine Leopard from Persia died in the spring, under the curious circumstance already recorded in the Society's 'Proceedings' (P. Z. S. 1880, p. 358). The health of the larger Carnivora generally in the new Lion-house has been very good.

Opportunity was taken in the early part of the year to thoroughly sort and arrange, so as to be readily available for scientific work, the very considerable mass of material, in the shape of spirit-specimens of the higher Vertebrates, accumulated by the late Prosector, Prof. A. H. Garrod.

The following papers, contributed by the Prosector to the scientific publications of the Society in 1880, were mainly based upon specimens from the Society's menagerie:—"On the Structure of the Stomach in certain Genera of Tanagers"; "On two rare Ploceine Birds now or lately living in the Society's Menagerie"; "Note on a Specimen of Denham's Bustard"; "Remarks on the Shedding of the Horns in the Prongbuck"; "On the External Characters and Anatomy of the Red Uakari Monkey."

#### 6. MENAGERIE.

The number of animals belonging to the first three classes of Vertebrates living in the Society's Menagerie at the close of 1880 was 2372. The corresponding number on the 31st of December, 1879, was 1955, as will be seen by the subjoined Table:—

	December 31.		Comparison.
	1879.	1880.	
Quadrupeds.....	548	703	Incr. 155
Birds .....	1334	1438	Incr. 104
Reptiles .....	73	231	Incr. 158
	1955	2372	Incr. 417

The total number of registered additions to the Menagerie in 1880 was 1488, of which 624 were acquired by



presentation, 515 by purchase, 148 were bred in the Gardens, 161 were received on deposit, and 40 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

The following is a list of the most noticeable additions made to the Menagerie during the year 1880:—

#### JANUARY.

1. A Japanese Hawk-Eagle (*Spizaetus orientalis*), from Japan, being the first individual of this scarce Bird of Prey we have received. It was presented to us by our Corresponding Member, Harry Pryer, Esq., of Yokohama, and arrived under the kind care of Mr. Maries on January 6th.

2. Two Blue-eyed Cockatoos (*Cacatua ophthalmica*), presented by the Rev. George Brown, C.M.Z.S., of Duke-of-York's Island. This acquisition is of much interest, as the species was hitherto believed to be peculiar to the Solomon Islands, where, however, it may also occur.

#### FEBRUARY.

3. Two female Thars (*Capra jemlaica*), mother and young, presented by H.R.H. the Prince of Wales on the 5th February. The mother is the same animal that was brought home by the Prince of Wales on his return from India in 1876, and deposited for some time in the Society's Gardens. The young female was born whilst the mother was in the Society's Gardens. The male, which arrived at the same time, is unfortunately dead, so that another male of this species would be a very desirable acquisition to the Society's Menagerie.



4. Two Burrhel Wild Sheep (*Ovis burrhel*), purchased February 19th, being the first examples of this fine Himalayan Sheep that have been acquired by the Society.

#### MARCH.

5. A pair of Spanish Ichneumons (*Herpestes widdringtoni*) from Andalusia, presented by J. C. Forster, Esq., F.Z.S., March 19th.

#### APRIL.

6. An example of the Short-nosed Perameles (*Perameles obesula*), purchased April 15th, being the first example of this Marsupial which we have received for the Menagerie.

7. A young male Cape Hunting-Dog (*Lycaon pictus*), presented by C. Ernest Pope, Esq., of Alice, Victoria East, South Africa, and received April 19th.

8. A Koala, or Native Bear of Australia (*Phascolarctus cinereus*), purchased April 28th, being the first example of this peculiar Marsupial that has been brought alive to Europe.

#### MAY.

9. Two Side-striped Jackals (*Canis lateralis*), acquired by purchase May 28th. Only one example of this rare species has been previously received by the Society.

10. A young male Lühdorf's Deer (*Cervus luehdorfi*), born in the Zoological Gardens of Hamburgh, and new to the collection. Lühdorf's Deer is a newly discovered species from Amoorland, closely allied to the Wapiti.

#### JUNE.

11. A male Leonine Monkey (*Macacus leoninus*) from Arracan, received in exchange June 14th, from the Zoological Gardens of Calcutta. This rare Monkey agrees well with the excellent figure of Mr. Wolf (P. Z. S. 1870, p. 664, t. xxxv.) taken from our former individual of this species.

12. A Tufted Umbre (*Scopus umbretta*) from Africa, purchased June 26th, being the first example of this peculiar African form that has reached us.

#### JULY.

13. A pair of Ocellated Turkeys (*Meleagris ocellata*) from Yucatan, presented by Mr. W. E. Sibeth, July 20th.

#### AUGUST.

14. Two Tcheli Monkeys (*Macacus tcheliensis*) from China, north of Pekin, presented by Dr. S. W. Bushell, C.M.Z.S., of H.B.M. Legation, Pekin. This little-known Monkey belongs to



the group of *M. rhesus*, but is covered with dense short fur, fitting it to bear the severe winters of its native country.

15. A Michie's Tufted Deer (*Elaphodus michianus*), purchased August 25th, being the fourth example of this rare ruminant which we have obtained.

16. A young pair of the Koodoo Antelope (*Strepsiceros kudu*), purchased August 26th.

#### OCTOBER.

17. A pair of Gayals (*Bibos frontalis*) from the hills of Chittagong, received in exchange from the Zoological Gardens of Calcutta.

18. A pair of young Polar Bears (*Ursus maritimus*), brought from the Polar Seas, and presented to the Society by Mr. B. Leigh Smith, F.Z.S.

19. An Ivory Gull (*Larus eburneus*), also from the Polar Seas, and presented by the same donor, being the first example of this species that has reached us.

20. An Indian Jerboa (*Alactaga indica*), obtained in May last in the Logar Valley, between Kabul and Guzni, and presented to the Society by Major W. E. Money.

#### NOVEMBER.

21. Two Matamata Terrapins (*Chelys matamata*), purchased November 26th. Only two examples of this singular Tortoise have been previously received.

22. A Uniform Water-Snake (*Fordonia unicolor*), purchased November 29th, and new to the Collection.

#### DECEMBER.

23. A young female Red Wolf (*Canis jubatus*) from the Argentine Republic, presented by Mr. W. Petty, of Monte Video, being the second example of this scarce animal we have received.

24. A Pig from Brooker Island, Louisiade Archipelago, presented by Lieut. De Hoghton, of H.M.S. 'Beagle,' probably referable to *Sus papuensis*.

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 1880 :—

#### MAMMALS.

- 2 Tcheli Monkeys (*Macacus tcheliensis*).
- 1 Azara's Capuchin Monkey (*Cebus azaræ*).
- 1 Very Black Lemur (*Lenax nigerrimus*).
- 1 Algerian Hedgehog (*E. inaceus algirus*).



- 1 Marked Paradoxure (*Paradoxurus stigmaticus*).
- 1 Indian Jerboa (*Alactaga indica*).
- 1 Gerbille (*Gerbillus*, sp. inc.).
- 1 Yellow-toothed Cavy (*Cavia flavidens*).
- 1 Black-necked Hare (*Lepus nigricollis*).
- 1 Papuan Pig (*Sus papuensis*).
- 1 Natal Antelope (*Cephalophus natalensis*).
- 1 Lühdorf's Deer (*Cervus luehdorfi*).
- 1 White-bellied Opossum (*Didelphys albiventris*).
- 1 Short-eared Perameles (*Perameles obesula*).
- 1 Koala (*Phascolarctus cinereus*).

## BIRDS.

- 1 Brown Mock Thrush (*Harpornhynchus rufus*).
- 3 Crested Tits (*Parus cristatus*).
- 1 Black-headed Tanager (*Orchesticus ater*).
- 1 Resplendent Weaver Bird (*Hypochera splendens*).
- 3 Russ's Weaver Birds (*Quelea russi*).
- 4 Bengal Weaver Birds (*Ploceus bengalensis*).
- 3 Euler's Finches (*Spermophila euleri*).
- 4 Golden Sparrows (*Auripasser euchlorus*).
- 1 Yarrell's Siskin (*Chrysomitris yarrelli*).
- 3 Yellow-shouldered Hangnests (*Icterus tibialis*).
- 1 Changeable Troupial (*Quiscalus versicolor*).
- 1 Blyth's Pastor (*Pastor blythi*).
- 1 Cat-bird (*Ptilonorhynchus smithi*).
- 2 Blue-banded Grass-Parrakeets (*Euphema chrysostoma*).
- 1 Noble Macaw (*Ara nobilis*).
- 1 White-bellied Parrot (*Caica leucogastra*).
- 1 Brown Passerine Owl (*Glaucidium phalaenoides*).
- 1 Gould's Harrier (*Circus gouldi*).
- 2 Moor-Harriers (*Circus maurus*).
- 1 Beautiful Wood-Hawk (*Dryotriorchis spectabilis*).
- 1 Japanese Hawk-Eagle (*Spizaetus orientalis*).
- 1 Louisianian Heron (*Ardea ludoviciana*).
- 1 Tufted Umbrella (*Scopus umbretta*).
- 3 Muscovy Ducks (*Cairina moschata*).
- 2 Red-underwinged Doves (*Leptoptila rufaxilla*).
- 1 Banded Sand-Grouse (*Pterocles fasciatus*).
- 1 Sanderling (*Calidris arenaria*).
- 7 Richardson's Skuas (*Stercorarius crepidatus*).
- 1 Ivory Gull (*Pagophila eburnea*).
- 1 Fulmar Petrel (*Fulmarus glacialis*).



## REPTILES.

- 1 Geometric Tortoise (*Testudo geometrica*).
- 1 White Amphisbæna (*Amphisbæna alba*).
- 1 Gray's Amphisbæna (*Lepidosternum grayi*).
- 1 Brazilian Amphisbæna (*Bronia brasiliensis*).
- 1 Galeate Lizard (*Calotes opiomachus*).
- 1 Barbadian Anolis (*Anolis cepedii*).
- 1 Marbled Polychrus (*Polychrus marmoratus*).
- 1 Anguine Lizard (*Chamæosaura anguina*).
- 1 Many-spotted Snake (*Coronella multimaculata*).
- 1 Bordeaux Snake (*Coronella girondica*).
- 1 Tigrine Snake (*Tropidonotus tigrinus*).
- 1 Uniform Water-Snake (*Fordonia unicolor*).
- 1 Dekay's Snake (*Ischnognathus dekayi*).
- 1 Saw-marked Snake (*Philodryas serra*).
- 1 Pointed Tree-Snake (*Dryiophis acuminata*).
- 1 Ornamented Ceratophrys (*Ceratophrys ornata*).
- 1 Bosca's Newt (*Cynops boscai*).

The subjoined list gives the number of animals of each species which were bred in the Gardens in the year 1880 :—

## MAMMALS.

- 4 Collared Fruit-Bats (*Cynonycteris collaris*).
- 2 Lions (*Felis leo*).
- 2 Common Foxes (*Canis vulpes*).
- 2 Common Badgers (*Meles taxus*).
- 4 Wild Swine (*Sus scrofa*).
- 1 Zebu (*Bos indicus*).
- 1 Mouflon (*Ovis musimon*).
- 2 Elands (*Oreas canna*).
- 2 Reeves's Muntjacs (*Cervulus reevesi*).
- 1 Red Deer (*Cervus elaphus*).
- 1 Wapiti Deer (*Cervus canadensis*).
- 2 Japanese Deer (*Cervus sika*).
- 1 Sambur Deer (*Cervus aristotelis*).
- 1 Molucca Deer (*Cervus moluccensis*).
- 1 Mesopotamian Fallow Deer (*Cervus mesopotamicus*).
- 1 Hybrid Mesopotamian Fallow Deer (Between *Cervus mesopotamicus* and *C. dama*).
- 4 Axis Deer (*Cervus axis*).
- 2 Squirrel-like Phalangers (*Belideus sciureus*).



- 1 Red Kangaroo (*Macropus rufus*).
- 1 Black Wallaby (*Halmaturus ualabatus*).
- 1 Yellow-footed Rock-Kangaroo (*Petrogale xanthopus*).
- 4 Gaimard's Rat Kangaroos (*Hypsiprymnus gaimardi*).

## BIRDS.

- 3 Common Bluebirds (*Sialia wilsoni*).
- 2 Turquoise Parrakeets (*Euphema pulchella*).
- 3 Upland Geese (*Bernicla magellanica*).
- 4 Variegated Sheldrakes (*Tadorna variegata*).
- 5 Australian Wild Ducks (*Anas obscura*).
- 12 Spotted-billed Ducks (*Anas pæcilorhyncha*).
- 3 Common Teal (*Querquedula crecca*).
- 3 Garganey Teal (*Querquedula circia*).
- 4 Chilian Pintails (*Dafila spinicauda*).
- 4 Mandarin Ducks (*Aix galericulata*).
- 1 Geoffroy's Dove (*Peristera geoffroii*).
- 1 Bronze-winged Pigeon (*Phaps chalcoptera*).
- 1 Wonga-Wonga Pigeon (*Leucosarcia picata*).
- 3 Siamese Pheasants (*Euplocamus prælatus*).
- 4 Horned Tragopans (*Cerionis satyra*).
- 4 Peacock Pheasants (*Polyplectron chinquis*).
- 2 Yellow-legged Herring-Gulls (*Larus cachinnans*).
- 2 Jameson's Gulls (*Larus jamesoni*).

## REPTILES.

- 35 Seven-banded Snakes (*Tropidonotus leberis*).

The following is a List of the Donors and their several Donations for the year 1880.

**H.R.H. The Prince of Wales.**

27 — Two Thars, six Himalayan Monauls, three Horned Tragopans, one Temminck's Tragopan, one Spotted Turtle Dove, two Wild Boars.

Addison, W., Esq.

One Wood-Owl.

Adey, T. H., Esq.

One Macaque Monkey.

Alexander, Capt. A., R.E.

One Cinereous Vulture.

Amlot, G. L., Esq.

One Rhesus Monkey.



- Anderson, Dr. W.  
One Long-eared Owl.
- Anson, Mr. J.  
One Macaque Monkey.
- Arabin, St. Julien, Esq.  
One Java Sparrow, one Spotted-sided Finch, one Chestnut-eared Finch, two Chestnut-bellied Finches, two Red-beaked Weaver Birds, one Crimson-crowned Weaver Bird, one Paradise Whydah Bird, one Brazilian Tanager, one Yellow-bellied Liothrix, one Bearded Tit.
- Atkins, C., Esq.  
One Moustache Monkey.
- Badger, The Rev. G. P., D.C.L., F.Z.S.  
Two Black Lemurs.
- Baker, Miss.  
One White-throated Capuchin.
- Ball, Capt. E.  
One Quica Opossum.
- Barlee, F. P., Esq., C.M.G.  
Four Globose Curassows, one Little Guan.
- Barnes, C. Stanley, Esq.  
One Brazilian Cariama.
- Barrow, Capt.  
One Anubis Baboon, one Collared Mangabey, one Grivet Monkey, one Ludio Monkey.
- Bartlett, Mr. A. D.  
One Salt-water Terrapin.
- Bartlett, Miss.  
One Goffin's Cockatoo.
- Bayldon, The Rev. G.  
One Frigate-bird.
- Bayliss, S., Esq., F.Z.S.  
Four Rose-coloured Pastors.
- Beale, Miss Mabel.  
One Sykes's Monkey.
- Beazley, Mr.  
Three Lesser Black-backed Gulls.
- Behrens, W., Esq.  
One Malbrouck Monkey.
- Bentley, Miss E.  
One Blue-fronted Amazon.
- Bowen, Lady.  
Three Red-crowned Pigeons.



- Bower, H. R., Esq.  
 • One Kittiwake Gull.
- Bower, Capt. R.  
 One Dominican Gull.
- Boyd, W. C., Esq.  
 One Horned Lizard.
- Bradford, Earl of, F.Z.S.  
 One Common Raven.
- Braithwaite, W. H., Esq.  
 One West-Indian Agouti.
- Branscom, Miss.  
 Two Horned Lizards.
- Braybrooke, Lord, F.Z.S.  
 Two Summer Ducks.
- Brennan, H. P., Esq., R.N.  
 One Toque Monkey.
- Brook, L., Esq.  
 One Speckled Terrapin, one Slowworm.
- Brooke, A. Basil, Esq.  
 One Stock-Dove.
- Brown, Mrs. M. A.  
 One Greater Sulphur-crested Cockatoo.
- 27 Brown, The Rev. George, C.M.Z.S.  
 Two Blue-eyed Cockatoos.
- Buckland, F., Esq., F.Z.S.  
 A collection of young Salmonidæ.
- Budgett, Mrs.  
 One Horned Lizard.
- 28 Bushell, Dr.  
 Two Tcheli Monkeys.
- Bussey, H. F., Esq.  
 One Slender-billed Cockatoo.
- Castell, J., Esq.  
 Two Common Gulls.
- Chandle, G., Esq.  
 One Common Cuckoo.
- Chetwode, Mrs. A. L.  
 One Greater White-crested Cockatoo.
- Chevallier, H., Esq.  
 One Indian Gazelle.
- Childers, Right Hon. Hugh, M.P.  
 One Feline Douroucouli.
- Chirnside, A., Esq.  
 One Garnett's Galago, one Marsh Ichneumon.



- Christie, G. Whitmore, Esq.  
One Ocelot.
- Clarke, Stephenson, Esq.  
One Common Ocelot, one Harpy Eagle.
- Clayton, R., Esq.  
One Common Rook.
- Collingwood, W., Esq.  
One Purple-faced Monkey.
- Colman, J., Esq., C.M.Z.S.  
Six Paradise Whydah Birds, two Yellow-backed  
Whydah Birds, one White-winged Whydah Bird,  
twelve Red-beaked Weaver Birds.
- Conklin, W. A., Esq.  
Two Yellow-headed Troupials.
- Connell, W., Esq.  
One Rhesus Monkey.
- Cooper, E., Esq.  
One Azara's Fox.
- Cope, W. H., Esq., F.Z.S.  
One Kittiwake Gull.
- Cotton, Capt. W.  
One Horsfield's Tortoise.
- Cox, Dr. J. C., C.M.Z.S.  
Two Common Wombats.
- Craven, C. A., Esq.  
One Yellow-headed Conure, one Brown Capuchin, one  
Ocelot, one Ring-tailed Lemur.
- Craven, O. W., Esq.  
One Common Kingfisher.
- Cresswell, F., Esq.  
One Bar-tailed Godwit, one Grey Plover, six Knots,  
thirteen Dunlins.
- Cross, Mr. W.  
Six Mocking-birds.
- Cubitt, W., Esq.  
Two Black Rats.
- Cullen, J. R., Esq.  
One Bonnet-Monkey.
- Dalrymple, Sir Hugh, Bart.  
Eleven Common Guillemots, two Common Gulls.
- Davis, Miss.  
Two American Black-backed Geese.
- Davis, C. H., Esq.  
One Green Woodpecker.



- Day, J., Esq.  
Two Blood-breasted Pigeons.
- Day, P., Esq.  
One Common Chameleon.
- 29 De Hoghton, Lieut. R.N.  
One Papuan Pig.
- Dixie, Lady Florence.  
One Jaguar.
- Dobrée, R. B., Esq.  
One Spur-winged Goose.
- Dobson, Dr. G. E., C.M.Z.S.  
One Algerian Hedgehog, two Common Barn-Owls,  
one Long-eared Owl.
- Donovan, J. M., Esq.  
One Pig-tailed Monkey.
- Dudfield, Mrs. L.  
One Javan Chevrotain.
- Dumbell, H., Esq.  
One Roseate Cockatoo.
- Dundas, G., Esq.  
One Crab-eating Opossum.
- Dunn, W., Esq., C.E., C.M.Z.S.  
Two Bankiva Jungle-fowls, two Starred Tortoises.
- Dunt, W., Esq.  
One Persian Gazelle.
- Dutton, Mrs. M.  
One Common Jay.
- Edson, G., Esq.  
One Gannet.
- Edwards, G. D., Esq.  
One Common Barn-Owl.
- Elliot, E., Esq., M.R.C.S.  
One Dunlin, one Sanderling.
- Elliot, Mrs.  
One Plantain-Squirrel.
- Evans, E. A., Esq.  
One Malbrouck Monkey.
- Everitt, W. T., Esq.  
One Common Pheasant.
- Felix, F., Esq.  
One Rhesus Monkey.
- Fenton, Lieut. L. L.  
One Eyed Lizard, one Æsculapian Snake, six Viperine  
Snakes, one Bordeaux Snake.



- Fenwick, N. P., Esq., F.Z.S.  
One Larger Hill-Mynah.
- Ferris, Mr. A.  
One Banded Ichneumon.
- Fife, Capt.  
One Vulpine Phalanger.
- Fisk, Rev. G. H. R., C.M.Z.S.  
One Robben-Island Snake, five Rufescent Snakes,  
one Areolated Tortoise, one Geometric Tortoise, one  
Silver-backed Fox, one Caffre Wild Cat.
- Forbes, W. A., Esq., F.Z.S.  
One Red Brocket, one White-bellied Opossum, one  
Brazilian Hare, one White-bellied Guan, one Black  
Tortoise, one Brazilian Amphisbæna, one Gray's  
Amphisbæna.
- 28* Foster, J. C., Esq., F.Z.S.  
Two Spanish Ichneumons, two Wild Cats.
- Fricke, Charles, Esq.  
Two Hawk-headed Caiques.
- Gape, Major.  
One Macaque Monkey.
- Gibbes, Dr., F.Z.S.  
One Spotted Salamander, one Common Tench, one  
Axolotl.
- Gillespie, J. W., Esq.  
One West-African Love-bird.
- Gissing, Commander, C.E., R.N.  
One Black Wallaby.
- Gordon, Lord Ernest.  
One Dingo Dog.
- Gordon, W. C., Esq.  
One Red-fronted Lemur, one Grivet Monkey.
- Gow, A. B., Esq.  
Three Gaimard's Rat Kangaroos.
- Greaves, C. H., Esq.  
One Common Kingfisher.
- Green, W. F., Esq.  
One Goffin's Cockatoo.
- Grosvenor, F. C., Esq.  
One Rhesus Monkey.
- Günther, Dr. A., F.R.S.  
Five Bosca's Mud-Newts.
- Gurney, J. H., Esq., F.Z.S.  
Two Polish Swans.



- Haines, F. G., Esq.  
One Common Badger.
- Hall, H., Esq.  
One Banded Ichneumon.
- Hallawell, J., Esq.  
One Ring-tailed Coati.
- Hallett, Miss C.  
Two Silver Pheasants.
- Hamilton, J. G., Esq.  
One Ludio Monkey, one Mona Monkey.
- Harris, E., Esq., F.Z.S.  
One Silver Fox, one Golden Eagle.
- Harris, T. S., Esq.  
One Horned Lizard.
- Harting, J. E., Esq., F.Z.S.  
One Black Scoter.
- Harvey, Wm. Underwood, Esq.  
One Bonnet-Monkey.
- Hastings, Dr.  
One Egyptian Jerboa.
- Hawtayne, G. H., Esq., C.M.Z.S.  
One Thick-necked Tree-Boa, two American Moorhens,  
one South-American Rat-Snake, one Two-toed Sloth.
- Hay, Capt. the Hon. F. G., and — Wylde, Esq.  
Two Striped Hyænas.
- Hayes, F. R., Esq.  
One Peregrine Falcon.
- Haynes, Mr. A.  
One Green Monkey.
- Henderson, Lieut. G. P., R.N.  
One Philantomba Antelope.
- Henniker, Capt., F.Z.S.  
One Yellow-cheeked Amazon.
- Henry, J. Snowdon, Esq., F.Z.S.  
One Macaque Monkey, one Rhesus Monkey, two  
Hybrid Macaque Monkeys.
- Herring, G., Esq.  
One Common Gull.
- Higginson, E. G. Forbes, Esq.  
One Common Cuckoo.
- Higham, W. R., Esq.  
One Indian Cobra.
- Hill, Viscount.  
One Golden Eagle, one Red-fronted Lemur, one Natal  
Antelope.



- Hirsch, L., Esq.  
One Fallow Deer.
- Hoare, Mrs. J.  
Two Common Peafowl.
- Holt, Lord, and Co., Messrs.  
Two Horrid Rattlesnakes.
- Holt, J., Esq.  
One Greek Land-Tortoise, one Common Hedgehog.
- Hooker, Mrs. E.  
One Egyptian Ichneumon.
- Horlock, Dr.  
One Patas Monkey.
- Howard, P., Esq.  
One Common Chameleon.
- Hyde, R. M., Esq.  
One Green-winged Trumpeter.
- Ilchester, Lord.  
One Hog-Deer.
- Jackson, The Hon. L. S.  
Two Three-ridged Terrapins, two Hamilton's Terrapins, one Black-necked Hare, one Spotted Ichneumon.
- Jamrach, Mr. A. H.  
One Musky Lorikeet.
- Jamrach, Mr. W.  
Two Hardwicke's Mastigures.
- Jeyes, L., Esq.  
One Slowworm.
- Joliffe, Mrs. Hylton.  
Two Nutmeg-Finches, one Chestnut-breasted Finch.
- Jones, Capt. E.  
One Stanley Crane.
- Jones, H. T., Esq.  
One Ring-tailed Coati.
- Jones, Mr. S.  
One White-throated Finch.
- Julien, Lindsay von, Esq.  
One Great Eagle-Owl.
- Keep, Mr. H.  
One Centipede.
- Kendall, A., Esq.  
One Herring-Gull.
- Kincaid, J. E., Esq.  
One Rhesus Monkey.



- King, Capt. H.  
Two Martinican Doves, one Hawk's-billed Turtle.
- King, Mr. J.  
Two Green Woodpeckers.
- Kirby, G., Esq.  
One Macaque Monkey.
- Knight, C. H., Esq.  
One Common Raven.
- Ladell, Mrs.  
One Malbrouck Monkey.
- Lake, Commander Atwell, R.N.  
One Brown Bear.
- Laver, H. E., Esq.  
One Grivet Monkey.
- Lawes, W. C., Esq.  
One Pig-tailed Monkey.
- Lawson, Mrs.  
One Herring-Gull.
- Lemberg, P., Esq.  
One African Civet Cat.
- Lewis, A. R., Esq.  
One Ruddy Ichneumon.
- Lichtabell, H. C. Marckman de.  
One White-cheeked Capuchin.
- Lilford, Lord, F.Z.S.  
Three Slender Loris, two Azara's Foxes, one Jaguar.
- Litkie, V. A., Esq.  
One Cape Eagle-Owl.
- Low, Messrs. Hugh and Co.  
Three Madagascar Porphyrios, one Blood-breasted Pigeon.
- Lumsden, Capt. C. A.  
One Long-eared Owl.
- Macaulay, Mrs. H. D.  
One Pinche Monkey.
- Macaulay, Mr.  
One Macaque Monkey.
- McCubbin, Hugh, Esq.  
Two Radiated Tortoises.
- McGregor, J., Esq.  
One Gold Pheasant.
- McIlwraith, A., Esq., F.Z.S.  
One Emu.
- McRitchie, Capt. A.  
One Turnstone.



- Manley, F. W., Esq.  
One Macaque Monkey.
- Mann, T. J., Esq.  
One Smooth Snake, one Water-Rail.
- Mantell, G., Esq.  
One Black-eared Marmoset.
- Martin, Mrs. H. D.  
One Herring-Gull.
- Middleton, W., Esq.  
One Crested Porcupine.
- Milward, G., Esq.  
One Common Squirrel.
- Mitchison, A. W., Esq.  
One Common Raven.
- 25 Money, Major.  
One Indian Jerboa.
- Moore, H., Esq.  
One Common Turtle Dove.
- Morison, J., Esq., F.Z.S.  
One Black-eared Marmoset.
- Morris, J., and A. H. Brown, Messrs.  
One Chinese Rhesus Monkey.
- Mülhauser, G. A., Esq.  
One Tayra.
- Murray, T. Douglas, Esq., F.Z.S.  
One Common Marmoset.
- Murray, Miss M.  
One Arabian Gazelle.
- Nevill, Lady Dorothy.  
One Malbrouck Monkey.
- Nicholls, C. Kerry, Esq.  
One Bonnet-Monkey.
- Nicholson, Mr. M.  
One Bonnet-Monkey.
- Nixon, J. Forbes, Esq.  
One Herring-Gull.
- Ockenden, Mr. E.  
Two Common Nightjars.
- Officers of the Royal Yacht.  
One Sykes's Monkey.
- Ord, Sir Harry St. George, C.B., H.M.Z.S.  
One Black-faced Kangaroo, four Short-tailed Wallabies, three Vulpine Phalangers, three White-backed Piping Crows.



- Overbeck, C., Esq.  
One Brown Bear.
- Owen, Capt.  
One Side-striped Jackal.
- Ozorio, Luiz de Tavares, Esq.  
One Horned Lizard.
- Pain, W. H. B., Esq.  
Two Common Vipers.
- Palmer, J., Esq.  
One Herring-Gull.
- Peake, F., Esq., F.Z.S.  
One Green Monkey.
- Peele, C., Esq.  
One Macaque Monkey.
- 27 Petty, W., Esq.  
One Red Wolf, three Muscovy Ducks.
- Phillips, F., Esq.  
One Greater Sulphur-crested Cockatoo.
- Pillans, C. B., Esq.  
One Cape Bucephalus.
- Pillans, Eustace, Esq.  
One Rhomb-marked Snake, one Many-spotted Snake,  
one Anguine Lizard.
- 28 Pope, C. Ernest, Esq.  
One Cape Hunting-Dog.
- Porter, C., Esq.  
One Rose-Hill Broadtail.
- Porter, W., Esq.  
One Robben-Island Snake.
- Powles, W. D., Esq., C.M.Z.S.  
One Hybrid Fowl.
- Pryce, T. E., Esq.  
One Little Grebe.
- 27 Pryer, Harry, Esq., C.M.Z.S.  
One Japanese Hawk-Eagle.
- Pryer, W. B., Esq.  
One Sumatran Civet.
- Queensberry, Marquis of.  
One Huanaco, one Common Rhea.
- Ravenscroft, W. H., Esq.  
One Indian Chevrotain.
- Reid, Dr.  
One Dwarf Chameleon.
- Rembielinski, Count.  
One Gerbille.



- Ringer, Sydney, Esq., M.D.  
Two Corean Pigs.
- Ringrove, Mrs. G.  
One Common Hare.
- Robinson, C. B., Esq.  
One Ocelot, one Ring-tailed Coati.
- Rodney, J., Esq.  
Two Slowworms.
- Rose, H. F., Esq.  
One Weka Rail.
- Rose, T. L. M., Esq.  
One Mississippi Alligator.
- Russell, Miss Flora.  
One Viviparous Lizard, one Sand-Lizard.
- Russell, Capt.  
One American Red Fox.
- St. Quintin, W. H., Esq.  
Two Red-legged Partridges, two Northern Buzzards, one Scops Owl, two Rufous-necked Weaver Birds, one Common Spoonbill.
- Salvin, Mrs. C.  
One Rhesus Monkey.
- Samuel, L., Esq.  
One Vervet Monkey.
- Saunders, the Rev. J., B.A.  
One Rhesus Monkey.
- Saunders, J. E., Esq.  
One Malbrouck Monkey.
- Savage, E. S., Esq.  
One Sykes's Monkey.
- Schmettau, Karl J., Esq.  
One Horrid Rattlesnake.
- Schütte, A. L., Esq.  
One Ocelot.
- Schweder, E., Esq.  
One Common Fox.
- Scott, T. C., Esq.  
Four Richardson's Skuas.
- Scrutton, P. E., Esq.  
One Brown Capuchin.
- Seaborne, Capt. J.  
One Gould's Harrier.
- Shairp, N. W., Esq.  
Two Common Cranes.



- 28 Sibeth, W. E., Esq.  
Two Ocellated Turkeys.
- Simonds, J., Esq.  
One White Pelican.
- Simpson, F., Esq.  
One Vervet Monkey, one Balearic Crowned Crane.
- Smerdon, Capt.  
Two Indian Porcupines.
- 29 Smith, B. Leigh, Esq., F.Z.S.  
Two Polar Bears, one Ivory Gull.
- Smith, Lieut.-Col. J. A.  
Four Ring-tailed Coatis.
- Smith, J., Esq.  
One Pike, one Bream, one Tench.
- Sparagnapane, Madame.  
One Common Marmoset.
- Speer, Dr. F.  
One West-African Python.
- Speer, Surgeon F.  
One Long-nosed Crocodile.
- Spooner, Miss M. S.  
One Crested Ground-Parrakeet.
- Starling, R., Esq.  
One Northern Buzzard.
- Stevenson, W. H., Esq.  
One Sambur Deer.
- Stovell, J., Esq.  
One Common Trumpeter.
- Stradling, Dr. A., C.M.Z.S.  
One Long-headed Snake, one Pointed Tree-Snake, one  
White Amphisbæna, two Red-underwinged Doves,  
two Giant Toads, one Tuberculated Iguana, one  
Marbled Polychrus, one Saw-marked Snake.
- Sturt, Lieut.-Col. C. S., C.M.Z.S.  
One Common Paradoxure, one Carpet-Viper, one  
Blyth's Pastor, one Banded Sand-Grouse.
- Taylor, W., Esq., M.D.  
Two Domestic Goats.
- Thimbleley, H. J., Esq.  
One Macaque Monkey.
- Tholandir, Capt.  
One Common Squirrel.
- Thomas, O., Esq., F.Z.S.  
Two Slowworms.



- Thomas, Capt.  
One Grey-cheeked Monkey.
- Thomas, Capt. J.  
One Stump-tailed Lizard.
- Thomson, J. H., Esq., C.M.Z.S.  
One Alligator Terrapin.
- Thornhill, E., Esq.  
One Greater Black-backed Gull.
- Thunder, G. H., Esq., R.N.  
One Common Genet.
- Ticehurst, Capt.  
One Arabian Gazelle.
- Tilbury, Miss.  
One Rhesus Monkey.
- Tober, D., Esq.  
One Smooth Snake, one Plantain-Squirrel.
- Turner, G. G., Esq.  
One Macaque Monkey.
- Tustin, W. B., Esq.  
One Macaque Monkey.
- Veale, J., Esq.  
One Leadbeater's Cockatoo.
- Veitch, Messrs. James and Son, and Charles Maries, Esq.  
One Brown Bear, three Tigrine Snakes.
- Wainwright, H. G., Esq.  
One Macaque Monkey.
- Wakefield, The Rev. T.  
Two Elliot's Guinea-fowl.
- Waller, Gerald, Esq.  
Four Abyssinian Guinea-fowls, two American Darters.
- Walsingham, Lord, F.Z.S.  
Thirty-six Golden Tench.
- Weaver, G., Esq.  
Two Common Gulls.
- Weaver, H. E., Esq.  
One Horrid Rattlesnake.
- Wedderburn, Miss.  
Two Common Peafowls.
- Westermann, G. F., Esq., F.M.Z.S.  
One Russ's Weaver Bird.
- Westminster, The Marchioness of.  
Three Red-beaked Weaver Birds.
- Whitmarsh, H. B., Esq.  
One Central-American Agouti, one Prince Albert's Curassow.



- Williams, C., Esq.  
One Alexandrine Parrakeet, two West-African Love-  
birds, one Common Canary, one Crimson-eared Wax-  
bill.
- Williams, J. F., Esq.  
One Hawk's-billed Turtle.
- Wilson, J. W., Esq.  
Ten Amaduvade Finches.
- Wilson, S., Esq.  
One Common Trout.
- Winchester, M. M., Esq.  
One Macaque Monkey.
- Winterton, Earl of, F.Z.S.  
Four Egyptian Jerboas.
- Wood, H., Esq.  
One Brown-necked Parrot.
- Woolward, Capt.  
One Black-handed Spider Monkey.
- Worssam, E., Esq.  
One Black Rat.
- Wynne-Roberts, Mrs. R.  
One Sykes's Monkey.
- Young, J., Esq., F.Z.S.  
Two Bearded Tits.
- Young, J., Esq.  
One Common Kestrel.
- Younge, Mrs. S. M.  
One Macaque Monkey.

*Conclusion.*

In concluding their fifty-second 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, 1881.



REPORT  
OF THE  
AUDITORS OF THE ACCOUNTS  
OF THE  
ZOOLOGICAL SOCIETY OF LONDON,  
Appointed January 20, 1881.

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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, 1880, respectfully submit to the Society an abstract of such 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, 1879 ..... |                                    |        |    | 1071   | 1      | 3  |    |
| INCOME.                                  |                                    |        |    |        |        |    |    |
|                                          |                                    | £      | s. | d.     | £      | s. | d. |
| 1878                                     | { Garden Sales .....               | 5      | 10 | 0      |        |    |    |
|                                          | { Admission Fees .....             | 5      | 0  | 0      |        |    |    |
|                                          | { Subscriptions .....              | 9      | 0  | 0      |        |    |    |
|                                          | { Ivory Tickets .....              | 1      | 1  | 0      |        |    |    |
|                                          |                                    |        |    |        | 20     | 11 | 0  |
| 1879                                     | { Rent for Freehold Premises ..... | 75     | 0  | 0      |        |    |    |
|                                          | { Garden Sales .....               | 193    | 4  | 8      |        |    |    |
|                                          | { Admission Fees .....             | 85     | 0  | 0      |        |    |    |
|                                          | { Subscriptions .....              | 54     | 0  | 0      |        |    |    |
|                                          | { Ivory Tickets .....              | 3      | 3  | 0      |        |    |    |
|                                          | { Publication Sales.....           | 290    | 0  | 1      |        |    |    |
|                                          |                                    |        |    |        | 700    | 7  | 9  |
| 1880                                     | { Admissions to Gardens .....      | 15,786 | 12 | 0      |        |    |    |
|                                          | { Rent for Refreshment Rooms.....  | 1,107  | 0  | 0      |        |    |    |
|                                          | { Rent for Freehold Premises ..... | 225    | 0  | 0      |        |    |    |
|                                          | { Garden Sales .....               | 130    | 15 | 7      |        |    |    |
|                                          | { Admission Fees .....             | 615    | 5  | 0      |        |    |    |
|                                          | { Compositions .....               | 1,020  | 0  | 0      |        |    |    |
|                                          | { Subscriptions .....              | 6,508  | 8  | 0      |        |    |    |
|                                          | { Ivory Tickets .....              | 34     | 13 | 0      |        |    |    |
|                                          | { Publication Subscriptions .....  | 505    | 1  | 0      |        |    |    |
|                                          | { Publication Sales .....          | 172    | 2  | 3      |        |    |    |
| { Dividends .....                        | 74                                 | 6      | 9  |        |        |    |    |
| { Miscellaneous .....                    | 340                                | 5      | 11 |        |        |    |    |
|                                          |                                    |        |    |        | 26,519 | 9  | 6  |
| 1881                                     | { Subscriptions .....              | 138    | 3  | 0      |        |    |    |
|                                          | { Ivory Tickets .....              | 1      | 1  | 0      |        |    |    |
|                                          | { Publication Subscriptions .....  | 8      | 8  | 0      |        |    |    |
|                                          |                                    |        |    |        | 147    | 12 | 0  |
| INCOME RECEIVED IN 1880 .....            |                                    |        |    | 27,388 | 0      | 3  |    |
|                                          |                                    |        |    | 27,388 | 0      | 3  |    |
|                                          |                                    |        |    | 28,459 | 1      | 6  |    |



## PAYMENTS.

s. d.  
1 3

| EXPENDITURE.                                              | Belonging to |    |    |        |    |    | Total. |    |    |
|-----------------------------------------------------------|--------------|----|----|--------|----|----|--------|----|----|
|                                                           | 1879.        |    |    | 1880.  |    |    |        |    |    |
|                                                           | £            | s. | d. | £      | s. | d. | £      | s. | d. |
| Rent, Rates, Taxes, and Insurances..Gardens               | 153          | 14 | 5  | 788    | 7  | 0  | 942    | 1  | 5  |
| Ditto ditto .....Office                                   | 19           | 0  | 6  | 68     | 18 | 4  | 87     | 18 | 10 |
| Salaries, Wages, and Pensions .....Gardens                |              |    |    | 3,300  | 13 | 8  | 3,300  | 13 | 8  |
| Ditto ditto .....Office                                   |              |    |    | 1,859  | 7  | 6  | 1,859  | 7  | 6  |
| Provisions .....                                          | 361          | 1  | 10 | 4,676  | 13 | 4  | 5,037  | 15 | 2  |
| Cost and Carriage of Animals.....                         | 50           | 10 | 0  | 1,494  | 14 | 5  | 1,545  | 4  | 5  |
| Menagerie Expenses .....                                  | 222          | 14 | 0  | 2,808  | 17 | 6  | 3,031  | 11 | 6  |
| Keepers' Dresses.....                                     | 8            | 2  | 0  | 144    | 12 | 0  | 152    | 14 | 0  |
| Works, Materials, and Repairs .....                       | 361          | 10 | 11 | 3,922  | 0  | 11 | 4,283  | 11 | 10 |
| New Buildings .....Office                                 | 396          | 3  | 0  |        |    |    | 396    | 3  | 0  |
| Garden Expenses .....                                     | 11           | 4  | 6  | 792    | 18 | 0  | 804    | 2  | 6  |
| Advertisements .....                                      | 43           | 2  | 1  | 213    | 18 | 11 | 257    | 1  | 0  |
| Band Expenses .....                                       |              |    |    | 223    | 4  | 0  | 223    | 4  | 0  |
| House and Office Expenses .....Gardens                    | 28           | 15 | 9  | 233    | 15 | 0  | 262    | 10 | 9  |
| Ditto ditto .....Office                                   | 25           | 0  | 10 | 407    | 10 | 0  | 432    | 10 | 10 |
| Stationery .....                                          | 13           | 9  | 0  | 70     | 16 | 2  | 84     | 5  | 2  |
| Printing (Miscellaneous)....                              | 20           | 10 | 6  | 397    | 4  | 3  | 417    | 14 | 9  |
| Publications.....                                         | 321          | 8  | 0  | 1,835  | 10 | 11 | 2,156  | 18 | 11 |
| Library Expenses .....                                    | 88           | 1  | 2  | 664    | 7  | 7  | 752    | 8  | 9  |
| Returned Subscriptions .....                              |              |    |    | 114    | 15 | 0  | 114    | 15 | 0  |
| Davis Bequest.....                                        |              |    |    | 74     | 1  | 0  | 74     | 1  | 0  |
| Grant in aid of Science .....                             |              |    |    | 50     | 0  | 0  | 50     | 0  | 0  |
| Interest on Mortgage Debt.....                            |              |    |    | 312    | 13 | 4  | 312    | 13 | 4  |
| <br>                                                      |              |    |    |        |    |    |        |    |    |
| EXPENDITURE PAID IN 1880 .. .....                         | 2,124        | 8  | 6  | 24,454 | 18 | 10 | 26,579 | 7  | 4  |
| <br>                                                      |              |    |    |        |    |    |        |    |    |
| Repaid Messrs. Drummond on account of Mortgage Debt ..... |              |    |    |        |    |    | 1,000  | 0  | 0  |
| Cash at the Banker's, December 31, 1880, viz. {           |              |    |    | £545   | 19 | 6  |        |    |    |
| General Account .....                                     |              |    |    | 333    | 14 | 8  |        |    |    |
| Petty Cash Account ...                                    |              |    |    |        |    |    | 879    | 14 | 2  |
|                                                           |              |    |    |        |    |    |        |    |    |
|                                                           |              |    |    |        |    |    | 28,459 | 1  | 6  |

0 3

1 6



*Comparison of Receipts in 1879 and 1880.*

| <i>Receipts.</i>                                |            |             |             |            |
|-------------------------------------------------|------------|-------------|-------------|------------|
|                                                 | Income of  |             | Increase.   | Decrease.  |
|                                                 | 1879.      | 1880.       |             |            |
|                                                 | £ s. d.    | £ s. d.     | £ s. d.     | £ s. d.    |
| Admission Fees:—                                |            |             |             |            |
| Past.....                                       | 110 0 0    | 90 0 0      | .....       | 20 0 0     |
| Present .....                                   | 585 0 0    | 615 5 0     | 30 5 0      | .....      |
| Annual Subscriptions:—                          |            |             |             |            |
| Past.....                                       | 66 0 0     | 63 0 0      | .....       | 3 0 0      |
| Present .....                                   | 6,550 9 0  | 6,508 8 0   | .....       | 42 1 0     |
| Future .....                                    | 78 0 0     | 138 3 0     | 60 3 0      | .....      |
| Compositions .....                              | 900 0 0    | 1020 0 0    | 120 0 0     | .....      |
| Ivory Tickets .....                             | 41 10 0    | 39 18 0     | .....       | 1 12 0     |
| Admissions to Gardens..                         | 15,215 7 0 | 15,786 12 0 | 571 5 0     | .....      |
| Garden Sales .....                              | 401 9 8    | 329 10 3    | .....       | 71 19 5    |
| Rent for Refreshment<br>Rooms .....             | 1,223 1 8  | 1,107 0 0   | .....       | 116 1 8    |
| Rent for Premises in<br>Oxford Street .....     | 300 0 0    | 300 0 0     | .....       | .....      |
| Publications .....                              | 881 8 9    | 975 11 4    | 94 2 7      | .....      |
| Dividends .....                                 | 74 8 4     | 74 6 9      | .....       | 0 1 7      |
| Miscellaneous.....                              | 36 9 1     | 340 5 11    | 303 16 10   | .....      |
|                                                 | 26,463 3 6 | 27,388 0 3  | 1,179 12 5  | 254 15 8   |
| Increase .....                                  | 924 16 9   | .....       | 254 15 8    | Ded. Decr. |
|                                                 | 27,388 0 3 | 27,388 0 3  | 924 16 9    | .....      |
| Total Receipts in 1880 .....                    |            |             | £27,388 0 3 |            |
| Total Payments in 1880.....                     |            |             | 26,579 7 4  |            |
| Receipts over Payments .....                    |            |             | 808 12 11   |            |
| <i>Dr. Cash</i>                                 |            |             |             |            |
|                                                 |            |             | £ s. d.     |            |
| To Balance brought from December 31, 1879 ..... |            |             | 1,071 1 3   |            |
| To Income received in the Year .....            |            |             | 27,388 0 3  |            |
|                                                 |            |             | 28,459 1 6  |            |



*Comparison of Payments in 1879 and 1880.*

| <i>Payments.</i>                            |                |    |       |        |           |           |       |    |    |
|---------------------------------------------|----------------|----|-------|--------|-----------|-----------|-------|----|----|
|                                             | Expenditure of |    |       |        | Increase. | Decrease. |       |    |    |
|                                             | 1879.          |    | 1880. |        |           |           |       |    |    |
|                                             | £              | s. | d.    | £      | s.        | d.        |       |    |    |
| Arrears of previous years . . . .           | 2,267          | 9  | 2     | 2,124  | 8         | 6         | 143   | 0  | 8  |
| Rent, Rates, Taxes, and Insurance . . . . . | 985            | 15 | 7     | 857    | 5         | 4         | 128   | 10 | 3  |
| Salaries, Wages, and Pensions . . . . .     | 5,106          | 16 | 6     | 5,160  | 1         | 2         | 53    | 4  | 8  |
| Cost and Carriage of Animals                | 1,349          | 9  | 2     | 1,494  | 14        | 5         | 145   | 5  | 3  |
| Provisions . . . . .                        | 4,180          | 8  | 3     | 4,676  | 13        | 4         | 496   | 5  | 1  |
| Menagerie Expenses . . . . .                | 2,785          | 12 | 8     | 2,808  | 17        | 6         | 23    | 4  | 10 |
| Keepers' Dresses . . . . .                  | 141            | 18 | 0     | 144    | 12        | 0         | 2     | 14 | 0  |
| Works, Repairs, and Materials . . . . .     | 2,892          | 11 | 3     | 3,922  | 0         | 11        | 1,029 | 9  | 8  |
| Buildings . . . . .                         | 200            | 0  | 0     | 200    | 0         | 0         | 200   | 0  | 0  |
| Garden Expenses . . . . .                   | 843            | 6  | 9     | 792    | 18        | 0         | 50    | 8  | 9  |
| Advertisements . . . . .                    | 229            | 17 | 2     | 213    | 18        | 11        | 15    | 18 | 3  |
| Band Expenses . . . . .                     | 221            | 8  | 0     | 223    | 4         | 0         | 1     | 16 | 0  |
| House and Office Expenses . .               | 601            | 0  | 7     | 641    | 5         | 0         | 40    | 4  | 5  |
| Stationery and Account Books                | 62             | 16 | 2     | 70     | 16        | 2         | 8     | 0  | 0  |
| Printing (Miscellaneous) . . . .            | 391            | 4  | 0     | 397    | 4         | 3         | 6     | 0  | 3  |
| Publications . . . . .                      | 2,044          | 17 | 7     | 1,835  | 10        | 11        | 209   | 6  | 8  |
| Library Expenses . . . . .                  | 322            | 0  | 0     | 664    | 7         | 7         | 342   | 7  | 7  |
| Returned Subscriptions . . . .              | 43             | 8  | 0     | 114    | 15        | 0         | 71    | 7  | 0  |
| Grant in aid of Science . . . . .           | 50             | 0  | 0     | 50     | 0         | 0         | 0     | 7  | 4  |
| Expenditure of Davis Bequest                | 74             | 8  | 4     | 74     | 1         | 0         | 0     | 7  | 4  |
| Interest on Mortgage-d. bt . .              | 352            | 10 | 0     | 312    | 13        | 4         | 39    | 16 | 8  |
| Increase . . . .                            | 25,146         | 17 | 2     | 26,579 | 7         | 4         | 2,219 | 18 | 9  |
|                                             | 1,432          | 10 | 2     | 1,432  | 10        | 2         | 787   | 8  | 7  |
|                                             | 26,579         | 7  | 4     | 26,579 | 7         | 4         | 1,432 | 10 | 2  |
| Ordinary Expenditure . . . . .              | 23,908         | 6  | 1     | 24,753 | 9         | 5         | 845   | 3  | 4  |
| Extraordinary ditto . . . . .               | 1,238          | 11 | 1     | 1,825  | 17        | 11        | 587   | 6  | 10 |
|                                             | 25,146         | 17 | 2     | 26,579 | 7         | 4         | 1,432 | 10 | 2  |

  

| <i>Contra</i>                                                     | <i>Cr.</i>   |
|-------------------------------------------------------------------|--------------|
| By Expenditure paid in the year . . . . .                         | £ 26,579 7 4 |
| By Repayment to Messrs. Drummond on account of Mortgage . . . . . | 1,000 0 0    |
| By Balance at Banker's, December 31, 1880 . . . . .               | 879 14 2     |
|                                                                   | 28,459 1 6   |



The Assets and Liabilities of the Society on the 31st of December 1880 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                                                                        | .....              | .....            | .....                               | 879 14 2 | 879 14 2   |
| Cost of £1900<br>Lond. & South-<br>western Ry. Co's<br>New 4 per Cent.<br>Preference Stock. | .....              | .....            | 1,938 9 6                           | .....    | 1,938 9 6  |
| Freehold Premises.                                                                          | .....              | .....            | 24,490 0 0                          | .....    | 24,490 0 0 |
| Annual Subscrip-<br>tions.....                                                              | 98 0 0             | 78 0 0           | .....                               | .....    | 176 0 0    |
| Ivory Tickets .....                                                                         | .....              | 2 2 0            | .....                               | .....    | 2 2 0      |
| Publication Sales...                                                                        | 18 3 6             | 210 18 5         | .....                               | .....    | 229 1 11   |
| Garden Sales .....                                                                          | 8 2 6              | 53 11 3          | .....                               | .....    | 61 13 9    |
| Rent for Freehold<br>Premises .....                                                         | .....              | 75 0 0           | .....                               | .....    | 75 0 0     |
|                                                                                             | 124 6 0            | 419 11 8         | 26,428 9 6                          | 879 14 2 | 27,852 1 4 |

### LIABILITIES.

|                                       | Debts.   |           |
|---------------------------------------|----------|-----------|
|                                       | £ s. d.  | £ s. d.   |
| Bills, &c., estimated at—             |          |           |
| For the Gardens, say .....            | 1345 7 9 |           |
| Office, say.....                      | 425 1 2  |           |
|                                       |          | 1770 8 11 |
| Rent and Taxes unpaid—                |          |           |
| For the Gardens, say .....            | 285 2 10 |           |
| Office, say.....                      | 23 1 9   |           |
|                                       |          | 308 4 7   |
| Messrs. Drummond, Mortgage Debt ..... | .....    | 7000 0 0  |
|                                       |          | 9078 13 6 |



The Auditors are glad to be no longer obliged to report a decrease in the Society's revenue. Although the expenditure has increased, chiefly by an additional sum of about £1000 for repairs and nearly £500 for higher cost of provisions (consequent upon an increase in the number of animals), the Council have been able to reduce the mortgage on the Society's premises by the sum of £1000, and yet to leave the cash balance in hand at the close of 1880 only £191 7s. 1d. less than at the close of the preceding year.

There has been a small decrease in the number of Fellows, owing chiefly to deaths and resignations; but the receipts for Subscriptions, Admission Fees, and Compositions are together larger by £108 than in 1879.

The Auditors are glad to acknowledge their satisfaction at the state of the Books as placed before them by Mr. Barrow, the Society's Accountant.

EDWARD JOHNSTONE.  
 W. T. BLANFORD.  
 HENRY SEEBOHM.  
 HERBERT DRUCE.  
 W. H. HUDLESTON.  
 F. M. BALFOUR.

11 *Hanover Square, W.*

*February 24, 1881.*