

REPORT
OF THE
COUNCIL
OF THE
ZOOLOGICAL SOCIETY
OF LONDON,
FOR THE YEAR 1878.

READ AT THE ANNUAL GENERAL MEETING,

APRIL 29TH, 1879.

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1879.

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REPORT OF THE COUNCIL.

April 29, 1879.

BEFORE commencing the ordinary topics of their Report upon the progress of the Society during the year 1878, the Council feel that an allusion should be made to the serious loss the Society has suffered since its last Anniversary by the death of the late President, the Marquis of Tweeddale. The late Marquis, as the Fellows are well aware, was preeminently suited not only by his social position, but also by his attainments as a naturalist and his business-like habits, to be the President of the Society; and to fill the post thus vacated (as it was incumbent on the Council to do according to the Charter and Bye-laws) was by no means an easy task. In selecting for this high Office, however, the name of Prof. Flower, one of the most distinguished zoologists of the present day, and for many years a most active and efficient Vice-President of the Society, the Council feel sure that they will receive the approbation of the Fellows, and that their choice will be duly ratified by the ballot to be taken this day.

Having said thus much, the Council proceed to the usual subjects of their Report. These, in accordance with previous Reports, are divided into three heads, the first of which relates to the General Condition of the Society, the second to the operations carried on 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 and Annual Subscribers.*

The number of Fellows, Fellows Elect, and Annual

Subscribers at the close of the year 1878 amounted to 3416. Of these there were:—

Compounders who have paid £20	81
Ditto ditto £30	831
Compositions remitted	20
Paying annual contributions of £2	69
Ditto ditto £3	2260
Dormant	114
Admission-fees unpaid	35
Annual Subscribers, paying £3	6
	3416

The corresponding number of Members of the Society at the close of 1877 was 3358, showing a net addition to our list of 58 Members during the year 1878. The corresponding addition in 1877 was 47.

The progress 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 and Annual Subscribers at the end of each Year.

Years.	Elected or Re-admitted.	Died.			Resigned.			Removed.			Ceased to be Fellows.	Number of Fellows and Annual Subscribers, December 31.		
		Compounders.		Subscribers.	Subscribers.		Admission Fees Unpaid.	Subscribers.		Admission Fees Unpaid.				
		£20.	£30.	Feeremitted	£2.	£3.		£2.	£3.				£2.	£3.
1869.	197	7	7	...	17	37	3	30	1	2	25	26	155	2966
1870.	160	9	7	...	6	32	...	51	...	...	...	...	105	3021
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

Amongst the names of those who have joined the Society in 1878 the Council are pleased to be able to mention that of H.R.H. The Duke of Connaught, who, upon expressing

his wish to become a Fellow, was, according to former precedents, admitted by the Council by special resolution on the 18th of June last.

b. *Corresponding and Foreign Members.*

Eight Corresponding and one Foreign Member were elected during 1878, namely :—

Corresponding Members.

Dr. Heinrich Bolau, Director of the Zoological Garden, Hamburg.

Capt. Thomas Blakiston, Hakodadi, Japan.

Henry Durnford, Esq., Buenos Ayres.

Capt. F. M. Hunter, Assistant Political Resident, Aden.

Dr. Adolf Bernhard Meyer, Director of the Royal Zoological Museum, Dresden.

Robert Ridgway, Esq., Smithsonian Institution, Washington, U.S. America.

R. B. Shaw, Esq., late H.B.M. Political Agent, Yarkand.

W. H. Wormald, Esq., Honorary Secretary of the Natural History Society, Port Elizabeth, South Africa.

Foreign Member.

Dr. Franz Steindachner, Director of the Imperial Cabinet of Zoology, Vienna.

2. STATE OF THE FINANCES.

a. *Income.*

The universal depression which, during the past year, has so largely affected all trades and industrial undertakings has also, as might have been expected, told heavily upon the Society's Income for 1878. The Receipts for the past year have amounted only to £27,944 6s. 11d., and show a decrease of £3043 15s. 3d. as compared with the Receipts of 1877. At the same time, if the average Receipts of the last ten years are taken as a more trustworthy standard of comparison, it will be found that even during the past year not much permanent ground has been lost, the average Income of the past ten years, in-

cluding therein the exceptional year 1876, having been only £27,350.

The following Table gives a comparison of the various heads of Income of 1878 with those of the preceding year :—

	1877.			1878.			Increase.			Decrease.		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
Admission Fees:—												
Past	85	0	0	110	0	0	25	0	0			
Present	955	0	0	705	0	0				250	0	0
Annual Subscriptions:—												
Past	54	0	0	33	0	0				21	0	0
Present	6,654	3	0	6,620	5	0				33	18	0
Future	92	0	0	81	0	0				11	0	0
Compositions	1,260	0	0	840	0	0				420	0	0
Ivory Tickets	43	12	0	64	13	0	21	1	0			
Admissions to Gardens	18,765	5	6	16,516	6	0				2,248	19	6
Garden Sales	505	15	1	746	6	3	240	11	2			
Rent for Refreshment-rooms ...	1,051	0	0	963	8	4				87	11	8
Rent for Premises in Oxford Street.....	74	1	3	300	0	0	225	18	9			
Publications	981	17	5	887	18	0				93	19	5
Dividends	464	3	2	64	18	11				399	4	3
Miscellaneous	2	4	9	11	11	5	9	6	8			
	30,988	2	2	27,944	6	11	521	17	7	3,565	12	10
Decrease				3,043	15	3	Ded. Incr.			521	17	7
	30,988	2	2	30,988	2	2				3,043	15	3

After adding to the Receipts for 1878 the balance of £1100 19s. 8d. carried over from 1877, it will be found that a total sum of £29,045 6s. 7d. was available for the expenditure of 1878.

b. *Expenditure.*

This amount was disposed of in the following manner:— The sum of £25,048 1s. 6d. was required for the ordinary expenditure of the year. The extraordinary expenditure during the same period amounted to £2218 14s. 3d. The sum of £1000 was paid to Messrs. Drummond on account of their mortgage on the Society's House and Premises. The small sum of £23 15s. 11d. was required to carry out a change in the investment of the Davis-fund, as hereinafter mentioned. This left a balance at the Society's Bankers, on the 31st of December last, of £754 14s. 11d., which was carried forward for the benefit of the present year.

The subjoined Table gives the various items of expen-

diture of 1878, and a comparison of each of them with the corresponding amount paid in 1877:—

	Expenditure of		Increase.	Decrease.
	1877.	1878.		
	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Arrears of previous years	2,664 11 11	3,710 3 2	1,045 11 3	.....
Rent, Rates, Taxes, and Insurance	1,018 8 3	942 11 2	.....	75 17 1
Salaries, Wages, and Pensions...	5,408 3 6	5,501 16 2	93 12 8	.....
Cost and Carriage of Animals ...	1,179 14 2	1,008 6 9	.....	171 7 5
Provisions	5,012 6 8	4,249 13 2	.....	762 13 6
Menagerie Expenses	2,972 4 7	2,612 17 9	.....	359 6 10
Keepers' Dresses	132 12 6	137 1 6	4 9 0	.....
Works, Materials, and Repairs ..	3,890 3 9	2,622 15 5	.....	1,267 8 4
New Buildings	844 13 11	956 9 5	111 15 6	.....
Garden Expenses.....	951 15 3	852 17 1	.....	98 18 2
Band Expenses.....	233 3 6	224 18 3	.....	8 5 3
Advertisements.....	242 16 0	161 18 7	.....	80 17 5
House and Office Expenses	729 8 5	564 2 8	.....	165 5 9
Stationery and Account Books...	77 13 0	63 0 0	.....	14 13 0
Printing (Miscellaneous)	458 7 4	418 0 9	.....	40 6 7
Publications	2,623 17 2	2,397 4 9	.....	226 12 5
Library Expenses.....	335 1 2	281 8 0	.....	53 13 2
Returned Subscriptions	50 5 0	43 2 0	.....	7 3 0
Cost of Medal	68 5 0	10 11 6	.....	57 13 6
Grant in aid of Science	50 0 0	50 0 0	.....	.....
Expenditure of Davis Bequest ...	59 1 10	64 18 11	5 17 1	.....
Interest on Mortgage Debt .....	.....	392 18 9	392 18 9	.....
	29,002 12 11	27,266 15 9	1,654 4 3	3,390 1 5
Decrease .....	.....	1,735 17 2	Ded. Incr.	1,654 4 3
	29,002 12 11	29,002 12 11	.....	1,735 17 2
Ordinary Expenditure	27,290 13 7	25,048 1 6	.....	2,242 12 1
Extraordinary ditto	1,711 19 4	2,218 14 3	506 14 11	.....
	29,002 12 11	27,266 15 9	.....	1,735 17 2

As will be observed, on reference to the Table, a considerable reduction of ordinary expenditure was made in 1878, as compared with the preceding year. This was effected partly by taking advantage of the fall of price which has lately taken place in various important articles of the Society's expenditure, such as hay, corn, and coke, and partly by slight economies, which the Council, having in view the decrease of income, thought it right to carry out in various branches of the establishment.

The total annual sum required to keep up the whole of the Society's establishment in a perfect state of efficiency may, under present circumstances, be put at about £25,000.

The following were the items of extraordinary expenditure paid in 1878:—

<i>Buildings:</i>		£	s.	d.
Second-class Refreshment-room		956	9	5
<i>Works:</i>		£	s.	d.
Reinstating slip on Canal-bank (1877)		231	10	0
Alterations in Engine and Pumps at Well (1877)		180	14	10
		<hr/>		
		412	4	10
<i>Special Acquisitions:</i>				
Young Hippopotamus (1877)		800	0	0
<i>Grant in aid of Science (Zoological-Record Association)</i>				
		50	0	0
		£	s.	d.
Belonging to 1877		1212	4	10
„ 1878		1006	9	5
		<hr/>		
		<hr/>		
		£2218	14	3
		<hr/>		

c. Assets and Liabilities.

The Assets and Liabilities of the Society on the 31st of December 1878 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				754	14	11
Cost of £1900 Lond. & South-Western Ry. Co's New 4 per Cent. Prefe- rence Stock			1,938	9	6	
Freehold Premises			23,980	0	0	
Annual Subscrip- tions	191	0	0			
Ivory Tickets	6	6	0			
Publications	22	5	3			
Garden Sales	17	7	0			
Rent for Refresh- ment-rooms		87	11	8		
Rent for Freehold Premises in Ox- ford Street		75	0	0		
	236	18	3	568	7	4
				25,918	9	6
				754	14	11
				27,478	10	0

LIABILITIES.		Debts.				
	£	s.	d.	£	s.	d.
Bills, &c., estimated at—						
For the Gardens, say	1404	18	8			
General Establishment, say	274	17	3			
				1679	15	11
Rent and Taxes unpaid—						
For the Gardens, say	214	5	11			
General Establishment, say	10	18	9			
				225	4	8
Messrs. Drummond, Mortgage Debt				9000	0	0
Messrs. Main, Iron Shed				225	0	0
				11,130	0	7

It may be remarked that the estimate of Assets does not include the value of the Society's Library nor that of the collection of living animals, both of which are of considerable amount.

The amount paid for the freehold of the Society's premises (No. 11 Hanover Square and No. 314 $\frac{1}{2}$ Oxford Street) was, as was stated in the last Report, £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 altogether about 3 $\frac{1}{2}$ years hence.

d. *Davis Trust-Fund.*

With the view of increasing the income of the Davis-Fund, a change has been made in its investment since the last Anniversary. The sum of £1994 9s. 2d. Consols, originally purchased by Mr. Davis's legacy, has been sold

out, and the proceeds invested in the purchase of £1900 London and South-Western Railway Company's new 4 per cent. Preference stock. The amount required to purchase this stock having been £23 15s. 11*d.* more than that raised by the sale of the Consols, this small balance has been charged to the Society's general account.

II. OFFICE, HANOVER SQUARE.

1. SCIENTIFIC MEETINGS.

To the fourteen meetings for the despatch of scientific business held in the Society's Rooms in Hanover Square in 1878, 160 communications were made. Of these 117 were from Fellows, 3 from Foreign Members, and 26 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 1877 was 137.

These communications were submitted to the Committee of Publication, by whom the following orders were made respecting them. Five were ordered to be printed entire in the 'Transactions' of the Society, and 128 in the 'Proceedings,' such illustrations being in each case allowed as the Committee considered necessary for the purpose. Of the remaining communications, abstracts or extracts were considered to be sufficient for publication.

2. SCIENTIFIC PUBLICATIONS.

The volume of the Society's 'Proceedings' for 1878, which is now on the table, contains 1056 pages, illustrated by 62 (mostly coloured) plates. This is the largest volume of 'Proceedings' yet issued since the commencement of the work.

Six Parts of the Society's 'Transactions' were issued during the year 1878, namely:—

VOL. X. PART IV. (March, 1878).

On the Structure and Development of the Skull in Sharks and Skates. By W. K. Parker, F.R.S. (with nine plates).

VOL. X. PART V. (March, 1878).

A Description of the Madreporaria dredged up during the Expedition of H.M.S. 'Porcupine' in 1869 and 1870. Part II. By Professor P. Martin Duncan, F.R.S. (with three plates).

VOL. X. PART VI. (June, 1878).

On the Skull of the Ægithognathous Birds. Part II. By W. K. Parker, F.R.S. (with nine plates).

VOL. X. PART VII. (August, 1878).

On the Axial Skeleton of the Pelecanidæ. By St. George Mivart, F.R.S. (with seven plates).

VOL. X. PART VIII. (August, 1878).

A Monograph of the Ostracoda of the Antwerp Crag. By George Stewardson Brady, M.D., C.M.Z.S., &c. (with eight plates).

VOL. X. PART IX. (August, 1878).

On the Brain of the Sumatran Rhinoceros (*Ceratorhinus sumatrensis*). By A. H. Garrod, M.A., F.R.S., Prosector to the Society (with one plate).

A further Contribution to the Knowledge of the existing Ziphioid Whales. Genus *Mesoplodon*. By William Henry Flower, F.R.S. (with three plates).

Since the commencement of the present year two more parts of 'Transactions' have been issued, and two others, containing all the remaining papers ordered for publication in the 'Transactions' up to the end of 1878, are in a forward state, and will be ready for issue, it is expected, on June 1st and August 1st respectively.

Along with the latter will be given the Contents and Index to the Tenth Volume of the 'Transactions.'

A new edition of the List of Vertebrated Animals now or lately living in the Society's Gardens is in preparation.

3. 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 has been much used by working zoologists. The Library contains upwards of 8,800 volumes of Zoological works, and as regards the departments of Mammals and Birds (works on which are specially necessary for the determination of the specimens in the Menagerie) is very nearly complete.

A new Library Catalogue is in preparation.

The sum of £303 12s. 10d. was devoted to the purchase of new zoological works in 1878.

The most important additions to the Society's Library since the last anniversary are the following:—

Systematische Bearbeitung der Schmetterlinge von Europa, zugleich als Text, Revision und Supplement zu Jacob Hübner's Sammlung europäischer Schmetterlinge, von Dr. G. A. W. Herrich-Schäffer. 5 vols. 4to. *Regensburg*, 1843-55. [Purchased.]

Entomologie, ou Histoire Naturelle des Insectes, avec leurs caractères génériques et spécifiques, leur description, leur synonymie, et leur figure enluminée. Par M. Oliver. 6 vols. 4to. *Paris*, 1789-1808. [Purchased.]

Neuere Beiträge zur Schmetterlingskunde mit Abbildungen nach der Natur, herausgegeben von C. F. Freyer. 7 vols. Small 4to. *Augsburg*, 1833-58. [Purchased.]

Species Général et Iconographie des Coquilles Vivantes, Comprenant la collection du Muséum d'Histoire Naturelle de Paris. Par L. C. Kiener. 8 vols. *Paris*. [Purchased.]

The following is a list of the periodicals received in 1878 from the various Societies and Institutions with whom this Society is in correspondence.

AMERICA.

The American Academy of Arts and Sciences, Boston and Cambridge.

Proceedings, n. s., vol. v. parts 1-3.

The Museum of Comparative Zoology, Harvard College, Cambridge, Mass.

Memoirs, vol. v. no. 2; vol. vi. nos. 1, 2.

Bulletin, vol. iv.; vol. v. nos. 2-7.

Annual Report, 1877-78.

The Davenport Academy of Natural Sciences, Davenport, Iowa.

Proceedings, vol. ii. part 1.

The Wisconsin Academy of Sciences, Arts, and Letters.
Madison, Wis.

Transactions, vol. iii. (1875-76).

The Minnesota Academy of Sciences, Minneapolis.

Bulletin, 1876.

The Connecticut Academy of Arts and Sciences, New Haven.

Transactions, vol. iii. part 2; vol. iv. part 1.

The Academy of Natural Sciences, Philadelphia.

Proceedings, 1878.

The American Philosophical Society, Philadelphia.

Proceedings, vol. xvii. nos. 100, 101.
Catalogue of the Library, part iii.
List of Surviving Members.

The American Entomological Society, Philadelphia.

Transactions, vol. vi. nos. 3, 4.

The Franklin Institute, Washington.

Journal, 1878.

AUSTRALASIA.

The Linnean Society of New South Wales, Sydney.

Proceedings, vol. ii. parts 2-4; vol. iii. part 1.

The New-Zealand Institute, Wellington.

Transactions, vol. x.

BELGIUM.

The Entomological Society, Belgium.

Annales, tom. xx. fasc. 3.
Compte-Rendu, 1878.

EAST INDIES.

The Royal Physical Society, Batavia.

Natuurkundig Tijdschrift, deel xxxv.-xxxvii.

The Royal Asiatic Society (Bombay Branch), Bombay.

Journal, vol. xiii. no. 35.

The Asiatic Society of Bengal, Calcutta.

Proceedings, 1877, nos. 7-10; 1878, nos. 1-8.

Journal, vol. xlvi. nos. 211-215; vol. xlvii. nos. 216-221.

List of Periodicals and Publications (1878).

Geological Survey of India, Calcutta.

Memoirs, ser. ii. part 3; ser. iv. part 2; ser. x. part 3, and ser. xi. part 2.

Records, vol. x. part 4; vol. xi. parts 1-4.

Index to vols. for the years 1868-77.

FRANCE.

The Linnean Society of Normandy, Caen.

Bulletin 2^e sér. vols. vii.-ix. (1873-75).

The Academy of Sciences, Lyons.

Annales, 4^e série, tome ix.

The Museum of Natural-History, Lyons.

Archives, tome i., ii. (1876-78).

Rapport par M. le Dr. Lortet, Nos. 5, 6.

Recherches sur la Fécondation et la Germination du *Preissia commutata*, par M. le Dr. Lortet.

The Zoological Society of Acclimatization, Paris.

Bulletin, January to December 1878.

The Natural-History Society, Toulouse.

Bulletin, année xi. (1876-77), année xii. fasc. 1 (1877-78).

GERMANY.

The Royal Prussian Academy of Sciences, Berlin.

Monatsbericht, January to December, 1878.

The Society of Friends of Natural History, Berlin.

Sitzungsbericht, 1877.

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

Bericht, 1877-78.

- The Zoological Society, Frankfort a. M.
Der Zoologische Garten, April to December, 1877; January to June, 1878.
- The German Malacological Society, Frankfort a. M.
Jahrbücher, 1878, Heft 1-4.
- The Society of Sciences, Göttingen.
Abhandlungen, Band xxi.
Nachrichten, Jahr 1877.
- The Natural-History Society, Halle.
Abhandlungen, Band xiii. Heft 4.
Bericht, Jahr 1876.
- The Natural-History Union, Hamburg.
Verhandlungen, 1875-76.
- The Natural-History and Medical Society, Heidelberg.
Verhandlungen, N. S. Band ii. Heft 2.
- The Medical and Natural-History Society, Jena.
Jenaische Zeitschrift, Band xii. Heft 1-4.
Denkschriften, Band ii. Heft 1, 2.
- The Academy of Metz.
Mémoires, année 1875-76, 1876-77.
- The Royal Bavarian Academy of Sciences, Munich.
Sitzungsberichte, 1877, Heft 3; 1878, Heft 1-3.
Abhandlungen, Band xiii. Abh. 1.
Die geognostische Durchforschung Bayerns, 1877.
- The Imperial Academy of Sciences, Vienna.
Sitzungsberichte, Band lxxiv. Heft 3-5.
—, Band lxxv. Heft 1-4.
Denkschriften, Band xxxv.-xxxviii.
Register, no. viii.
- The Zoological and Botanical Society, Vienna.
Verhandlungen, Bd. xxvii. 1877.
Monographie der Phaneropteriden, von C. Brunner von Wattenwyl.
- The Union of Natural History, Würtemberg.
Württembergische Jahreshefte, 1877, Heft 3; 1878, Heft 1-3.

GREAT BRITAIN AND IRELAND.

The Belfast Natural-History and Philosophical Society,
Belfast.

Proceedings, Session 1877-78.

The Bristol Museum and Library, Bristol.

Catalogue of Books, 1878.

The Royal Irish Academy, Dublin.

Transactions (Science), vol. xxv. no. 20; vol. xxvi. nos. 6-17.

Transactions (Polite Literature, &c.), vol. xxvii. no. 1.

Proceedings, vol. i. ser. 2. no. 12; vol. ii. ser. 2. no. 7; vol. iii. ser. 2. nos. 1, 2.

The Hull Royal Institution, Hull.

Annual Report, &c., Session 1877-78.

The Leeds Philosophical and Literary Society, Leeds.

Annual Report for 1877-78.

An Address by Wm. Lord Archbishop of York, Oct. 1877.

The Literary and Philosophical Society, Liverpool.

Proceedings, no. xxxi. Session 1876-77.

The Royal Society, London.

Proceedings, vol. xxvi. nos. 184-186; vol. xxvii. nos. 187-191.

Philosophical Transactions, vol. clxvii. part 2; vol. clxviii.;
and vol. clxix. part 1.

The Linnean Society, London.

Journal (Botany), vol. xvi. no. 94-98; vol. xvii. nos. 99, 100.

— (Zoology), vol. xiii. nos. 74; vol. xiv. nos. 75-77.

Transactions, 2nd ser. (Botany), vol. i. part 5.

—, 2nd ser. (Zoology), vol. i. part 7.

The Royal Geographical Society, London.

Proceedings, vol. xxii. nos. 1-6.

Journal, vol. xlvii.

The Geological Society, London.

Journal, vol. xxxiv. parts 1-4.

List of Fellows of the Society, 1878.

The Royal Institution of Great Britain, London.

Proceedings, vol. viii. parts 4-5.

List of Fellows of the Society, 1876.

Additions to the Library (No. XX.).

- The Royal United-Service Institution, London.
Journal, nos. 94-98.
Index to vols. xi.-xx.
- The British Association for the Advancement of Science,
London.
Report for 1877.
- Royal Asiatic Society of Great Britain and Ireland, London.
Journal, New Series, vol. x. part 1.
- The Society of Arts, London.
Journal, 1878.
- The Royal Agricultural Society of England, London.
Journal, vol. xiv. parts 1, 2.
- The Entomological Society, London.
Transactions, 1877, parts 4, 5; 1878, parts 1-4.
- The Quekett Microscopical Club, London.
Journal, nos. 36-38.
- The Natural-History Society of Northumberland and
Durham, London.
Transactions, vol. vii. part 1.
- The Royal Society of Literature, London.
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Donations of Works, Memoirs, and Papers have also been received from:—E. R. Alston, Esq.; Professor Spencer F. Baird; Professor J. V. Barboza du Bocage; The Trustees of the British Museum; Dr. H. Burmeister;

Professor G. Canestrini; Messrs. Cassell, Petter, and Galpin; R. Collett, Esq.; Monsieur H. Crosse; Professor J. D. Dana; D. G. Elliot, Esq.; Major H. H. Godwin-Austen; H. Goss, Esq.; R. J. L. Guppy, Esq.; Dr. F. V. Hayden; James Hector, Esq.; The Trustees of the India Museum; Geo. R. Jesse; Professor A. Kölliker; Professor J. Leidy; Professor A. W. Malm; Dr. A. B. Meyer; Baron F. von Müller; Monsieur E. Oustalet; Professor Owen; Professor J. Reinhardt; Geo. Dawson Rowley, Esq.; Lord Arthur Russell; Victor Ritter von Schmidhofen; Dr. R. Schomburgk; The Science and Art Department, South Kensington Museum; P. L. Sclater, Esq.; W. B. Tegetmeier, Esq.; Dr. H. Troschel; E. F. Trois, Esq.; The University College of London; U. S. Commission of Fish and Fisheries; E. Walford, Esq.; H. T. Wharton, Esq.; Dr. F. Buchanan White; Dr. R. Wiedersheim.

4. STAFF AT THE OFFICE.

The Council cannot close this part of their report without an allusion to the death of the Society's old and valued servant Mr. John Leigh, which took place on Monday, the 13th of January last.

The Council need scarcely remind the Fellows of Mr. Leigh's long and faithful services as Accountant to this Society, as they have been frequently referred to on former occasions, and were acknowledged in a most emphatic manner at the last Anniversary Meeting of the Society.

The Council have appointed as Mr. Leigh's successor Mr. John Barrow, who has acted as Mr. Leigh's assistant for upwards of nine years, and in whom they have the greatest confidence.

III. GARDENS, REGENT'S PARK.

1. BUILDINGS AND WORKS.

The New Buildings and Works carried out at the Society's Gardens and charged to extraordinary expenditure in 1878 were not so numerous or extensive as in the immediately preceding years. The only new Building erected was the Second-class Refreshment-room, which

constitutes the third and last portion of this important work, according to the plans prepared by Mr. Salvin, when the complete renewal of the old buildings formerly on the same site was determined upon in 1868. The contract price of this third portion, which has been built by Messrs. George Smith and Co. in a style harmonizing with the two portions previously completed, was £725. Extras and additional works, together with the Architect's Commission, &c., raised the total sum expended on this building in 1878 to £956 9s. 5*d.* The new building was handed over to the occupation of the Refreshment Contractors early in the season; and as an arrangement has been made whereby the Contractors have engaged themselves to pay an additional rent to the amount of 6 per cent. on the cost of construction, the Council believe that the addition thus made to the permanent Buildings in the Gardens will be regarded as satisfactory in every way.

Besides this, the only other works charged to extraordinary expenditure in 1878 were two in number, namely, the repair of a portion of the slip on the Canal-bank, and the lowering of the pumps in the well, with a view of obtaining a better supply of water.

The slip on the Canal-bank, especially that part of it which adjoined the new Elephant-house, had long been an object of disquiet to the Council and a source of contention between the Society and the Regent's Canal Company. In 1877, after long negotiations, an agreement was made with the Company whereby they engaged to take out the portion of the slipped clay next to the Elephant-house and to replace it with dry materials, under terms whereby the total cost to the Society should not exceed £200. The work having been successfully performed and approved of by Mr. Clarke Hawkshaw as consulting engineer on behalf of the Society, the sum in question was paid over to the Company, and charged to extraordinary expenditure in 1878.

The sum of £180 14s. 10*d.* was spent in 1877 altering the engine and lowering the pump of the Society's deep well, with the expectation of increasing the supply of water from this source. In this expectation, however, the Council regret to say they have been disappointed, the water-level in this part of the metropolitan area being now unprecedentedly low.

2. STAFF AT THE GARDENS.

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

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

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Besides these there are 17 Helpers in the Menagerie, 1 Head Gardener, 2 Gardeners, 10 Garden-labourers, 7 Artisans, 4 Painters, 7 Labourers, 1 Butcher, 1 Fireman, 2 Night-Watchmen, 2 Ladies' Attendants, and 1 Time-keeper employed at weekly wages; so that the number of the whole staff may be reckoned at about 88 persons.

3. VISITORS.

The total number of visitors to the Society's Gardens during the year 1878 was 706,713, as will be seen by the following Table, which gives the corresponding numbers of entrances under each head for 1877 and 1878:—

Visitors to the Gardens.

	1877.	1878.	Comparison.	
Fellows and Friends	206,485	188,773	Decr. 17,712	
Paying {	On ordinary days at 1s. each...	186,533	158,070	Decr. 28,463
	On Mondays and other days	324,900	296,368	Decr. 28,532
	at 6d. each			
Children under 12 years at	52,645	48,144	Decr. 4,501	
Charity Children	10,814	15,358	Incr. 4,544	
	781,377	706,713	Decr. 74,664	

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 1878.

Number of Visitors to the Gardens, 1828-78.

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

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

It will be observed that, notwithstanding the depression above alluded to, the number of visitors to the Gardens in 1878 has only been exceeded in four previous years, namely, 1873, 1874, 1876, and 1877.

4. ZOOLOGICAL LECTURES.

The Lectures, to the payment of which the proceeds of the Davis Fund are under present arrangements devoted, will be given for the present year in the usual Lecture-

room in the Society's Gardens, on Thursdays at 5 P.M., commencing May 8th.

The following is a list of the subjects :—

Date.	Subject.	Lecturer.
1. Thursday, May 8 ...	Birds that do not fly ...	Prof. Flower, P.Z.S., F.R.S.
2. " " 15 ...	The pleasures of Zoology.	Prof. J. Reay Greene, M.D.
3. " " 22 ...	Tails	Prof. Mivart, F.R.S.
4. " " 29 ...	Parrots	P. L. Selater, Esq., F.R.S.
5. " June 5 ...	Snakes	Prof. Huxley, F.R.S.
6. " " 12 ...	Nocturnal Animals.....	Dr. J. Murie, LL.D., F.L.S.
7. " " 19 ...	Reptiles and their Distribution.	P. L. Selater, Esq., F.R.S.

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

5. MENAGERIE.

The number of animals belonging to the first three classes of Vertebrates living in the Society's Menagerie at the close of 1878 was 2178. The corresponding number on the 31st of December, 1877, was 2200, as will be seen by the subjoined Table :—

	December 31.		Comparison.
	1877.	1878.	
Quadrupeds.....	667	640	Decr. 27
Birds	1357	1314	Decr. 43
Reptiles	176	224	Incr. 48
	2200	2178	Decr. 22

The total number of registered additions to the Menagerie in 1878 was 1182, of which 511 were acquired by presentation, 272 by purchase, 150 were bred in the Gardens, 178 were received on deposit, and 71 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

Perhaps the most important acquisition for the Menagerie in 1878 was the young male Hippopotamus received June 20th, having been purchased of the Royal Zoological Society, Amsterdam, for the sum of £800.

The original pair of Hippopotamuses obtained from the Viceroy of Egypt (the male in 1851, and the female in 1854) being both well advanced in years, and having ceased to breed, the Council thought it would not be right to miss an opportunity of obtaining a mate for the Society's young female of this species, born in the Gardens on the 5th November, 1872.

The Council accordingly entered into an agreement with the sister Society at Amsterdam for the acquisition of the young male Hippopotamus which was born in their gardens on the 3rd of August, 1876, and which arrived safely in this country under the care of Mr. Hegt, the sub-director of their gardens, on the 20th of June last.

The Council are happy to be able to say that the animal has improved much since its arrival, and is in the most perfect state of health.

This acquisition has become the more valuable in consequence of the death of the old male Hippopotamus, which took place on the 11th of March last.

The following is a list of the animals which have been bred in the Gardens in the year 1878.

MAMMALS.

- 1 Rhesus Monkey (*Cynocephalus mormon*).
- 1 Hybrid Mandrill Monkey (Bred between *Cynocephalus mormon* ♀ and *Macacus cynomolgus* ♂).
- 1 Collared Fruit-Bat (*Cynonycteris collaris*).
- 2 Wild Cats (*Felis catus*).

- 4 Common Foxes (*Canis vulpes*).
 2 Tayras (*Galictis barbara*).
 2 Chinchillas (*Chinchilla lanigera*).
 1 Hybrid Ass (Between *Equus onager* ♂ and *E. hemippus* ♀).
 3 Wild Boars (*Sus scrofa*).
 1 Mouflon (*Ovis musimon*).
 2 Elands (*Oreas canna*).
 1 Zebu (*Bos indicus*).
 1 $\frac{3}{4}$ -bred Zebu (Bred between *Bos indicus* ♂ and hybrid *Bos frontalis*).
 2 Reindeer (*Rangifer tarandus*).
 1 Hybrid Fallow Deer (Between *Dama mesopotamica* ♂ and *D. vulgaris* ♀).
 1 Wapiti Deer (*Cervus canadensis*).
 1 Red Deer (*Cervus elaphus*).
 1 Molucca Deer (*Cervus moluccensis*).
 1 Hog Deer (*Cervus porcinus*).
 2 Axis Deer (*Cervus axis*).
 2 Indian Muntjacs (*Cervulus muntjac*).
 2 Reeves's Muntjacs (*Cervulus reevesi*).
 2 Red Kangaroos (*Macropus rufus*).
 2 Great Kangaroos (*Macropus giganteus*).
 2 Yellow-footed Rock-Kangaroos (*Petrogale xanthopus*).
 1 Bennett's Wallaby (*Halmaturus bennetti*).

BIRDS.

- 2 Saffron Finches (*Sycalis flaveola*).
 1 Black-crested Cardinal (*Gubernatrix cristatella*).
 1 Turquoise Parrakeet (*Euphema pulchella*).
 6 Upland Geese (*Bernicla magellanica*).
 1 Black-necked Swan (*Cygnus nigricollis*).
 3 Black Swans (*Cygnus atratus*).
 4 Variegated Sheldrakes (*Tadorna variegata*).
 3 Australian Wild Ducks (*Anas superciliosa*).
 2 Brazilian Teal (*Querquedula brasiliensis*).
 16 Chilean Pintails (*Dafila spinicauda*).
 1 Bahama Duck (*Dafila bahamensis*).
 4 Chilean Widgeon (*Mareca chiloensis*).
 4 Summer Ducks (*Aix sponsa*).
 1 Spotted Turtle Dove (*Turtur auritus*).
 2 Spotted Turtle Doves (*Turtur suratensis*).

- 6 Geoffroy's Doves (*Peristera geoffroyi*).
 3 Talpacoti Ground-Doves (*Chamæpelia talpacoti*).
 1 Wonga-wonga Pigeon (*Leucosarcia picata*).
 1 Impeyan Pheasant (*Lophophorus impeyanus*).
 11 Amherst Pheasants (*Thaumalea amherstiae*).
 1 Darwin's Pucras (*Pucrasia darwini*).
 1 Fork-tailed Jungle-fowl (*Gallus furcatus*).
 2 Horned Tragopans (*Cerionis satyra*).
 4 Temminck's Tragopans (*Cerionis temmincki*).
 1 Green-necked Peafowl (*Pavo spicifer*).
 5 Argus Pheasants (*Argus giganteus*).
 1 Yellow-legged Herring-Gull (*Larus leucophæus*).

REPTILES.

- 8 Mocassin Snakes (*Tropidonotus fasciatus*).
 3 Hybrid Snakes (Between *Chilobothrus inornatus* ♂
 and *Epicrates angulifer* ♀).

The following is a systematic list of the animals belonging to Species new to the Catalogue which were exhibited in the Society's Gardens in the year 1878.

MAMMALS.

- Mayotte Lemur (*Lemur mayottensis*).
 Brown Mouse-Lemur (*Chirogaleus milii*).
 Smith's Dwarf Lemur (*Microcebus smithi*).
 Three-striped Paradoxure (*Paradoxurus trivirgatus*).
 Japanese Wolf (*Canis hodophylax*).
 Prairie-Wolf (*Canis latrans*).
 Weasel (*Mustela vulgaris*).
 Isabelline Bear (*Ursus isabellinus*).
 Hudson's-Bay Squirrel (*Sciurus hudsonius*).
 Fraser's Squirrel (*Sciurus stramineus*).
 Variable Squirrel (*Sciurus variabilis*).
 Hairy Tapir (*Tapirus roulini*).
 Equine Antelope (*Hippotragus equinus*).
 Cinereous Opossum (*Didelphys cinerea*).
 Squirrel-like Phalanger (*Belideus sciureus*).
 Short-tailed Wallaby (*Halmaturus brachyurus*).

BIRDS.

- Japanese Warbler (*Cettia cantans*).
 White-cheeked Bulbul (*Pycnonotus leucogenys*).
 Sykes's Oriole (*Oriolus kundoo*).
 Yellow-bellied Grosbeak (*Pheuticus chrysogaster*).
 Thick-billed Seed-Finch (*Oryzoborus crassirostris*).
 Lineated Finch (*Spermophila lineata*).
 Guttural Finch (*Spermophila gutturalis*).
 Rock-Sparrow (*Petronia stulta*).
 Sulphury Seed-eater (*Crithagra sulphurata*).
 Spanish Blue Magpie (*Cyanopolius cooki*).
 Red-crested Touracou (*Corythaix erythrolophus*).
 Long-tailed Cuckoo (*Eudynamis taitensis*).
 Spix's Macaw (*Ara spixi*).
 Golden-winged Parrakeet (*Brotogerys chrysoptera*).
 Burmah Parrakeet (*Palæornis rosa*).
 Oriental Eagle-Owl (*Bubo orientalis*).
 Dark-winged Buzzard (*Leucopternis scotoptera*).
 Levillant's Dartter (*Plotus levillanti*).
 Black-capped Bittern (*Butorides atricapilla*).
 Javan Adjutant (*Leptoptilus javanicus*).
 Bewick's Swan (*Cygnus bewicki*).
 Woodcock (*Scolopax rusticola*).
 Common Snipe (*Gallinago media*).
 Puffin (*Fratercula arctica*).

REPTILES.

- Horsfield's Tortoise (*Testudo horsfieldi*).
 Matamata Terrapin (*Chelys matamata*).
 Vivacious Snake (*Tachymenis vivax*).
 Black-headed Snake (*Homalocranion melanocephalum*).
 Long-banded Snake (*Tropidonotus vittatus*).
 Hog-nosed Snake (*Heterodon platyrhinos*).
 D'Orbigny's Snake (*Heterodon d'orbignyi*).
 Four-rayed Snake (*Elaphis quaterradiatus*).
 Cananina Snake (*Spilotes pæcilostoma*).
 Plumbeous Snake (*Oxyrrhopus plumbeus*).
 Copper-head Snake (*Cenchris contortrix*).

The following is a List of the Donors and their several Donations for the year 1878.

- Adcock, Dr.
Two Macaque Monkeys.
- Alexander, Col. W. R.
One Punjaub Wild Sheep.
- Allen, J. Mason, Esq.
One Brown Bear.
- Amslie, Miss.
One Brazilian Caracara.
- Andrade, J. da Costa, Esq.
One Crowned Eagle.
- Annesley, Col. A. L., F.Z.S.
Two Red-vented Bulbuls.
- Ansdell, C. W., Esq.
One Red Deer, one Common Fox.
- Arabin, Mrs., F.Z.S.
Two Black-crested Cardinals, one American Thrush,
one Green Glossy Starling, one White-eared Bulbul,
one Californian Quail.
- Ayling, Capt. T.
One Vulpine Phalanger.
- Badger, Dr. G. S.
One Banded Ichneumon, two Crested Porcupines.
- Banks, Edward, Esq.
Two Common Cormorants.
- Barclay, Miss.
One Palm-Squirrel.
- Barker, D. W., Jun., Esq.
One Laughing Kingfisher, one Black Wallaby.
- Barthrop, Mrs.
One Javan Parrakeet.
- Batterbee, R. C., Esq.
Three Reddish Finches, one Lineated Finch, one
Guttural Finch, one Tropical Seed-Finch, one Plum-
beous Finch.
- Baxter, Mrs.
One Rhesus Monkey.
- Baylis, W. H., Esq.
One Common Otter.
- Beagle, E. J., Esq.
One Vulpine Phalanger.

- Beck, T., Esq.
One Macaque Monkey.
- Bell, W. D., Esq.
One Common Boa.
- Bennet, James, Esq.
One Green Monkey.
- Bennett, G. Lyon, Esq.
One Ceylon Jungle-fowl, two Ring-necked Pheasants,
one Grey Francolin.
- Benson, Capt.
One Sykes's Monkey.
- Blackley, F. T., Esq.
One Banded Ichneumon.
- Blumenthal, A., Esq.
One Common Kestrel.
- Bottrell, Henry, Esq.
One Garden's Night-Heron.
- Boyd, E. L., Esq.
Three Green Tree-Frogs.
- Braybrooke, Lord, F.Z.S.
One Common Cormorant, three Summer Ducks.
- Bridgett, R., Esq.
One Geoffroy's Cat.
- Brough, F. S. B., Esq.
One Common Crow.
- Broughton, D. L., Esq.
One Laughing Kingfisher.
- Brown, Archibald, Esq.
Four Paradise Whydah-birds, one Pin-tailed Whydah-
bird, three Grenadier Weaver-birds, two Hooded
Finches.
- Brownlow, Earl, F.Z.S.
One Barbel.
- Bryant, R., Esq.
One Bonnet-Monkey.
- Buckland, F., Esq., F.Z.S.
Two Common Cormorants, one Common Adder.
- Burke, Commander.
One Beatrix Antelope.
- Caffin, Crawford, Esq., Lieut. R.N.
One Great Kangaroo, two Laughing Kingfishers.
- Calthrop, E., Esq.
One Squirrel Monkey.

- Canning, Hon. A. S. G., F.Z.S.
Two Black-winged Peafowls.
- Capstick, J. W., Esq., F.Z.S.
One Herring-Gull.
- Carazo, M. A. Gonzalez.
Two Black-faced Spider Monkeys, two Rufous-vented
Guans.
- Careless, G. D., Esq.
One Common Cuckoo.
- Carew, Capt. Pole.
One Macaque Monkey.
- Carr, E., Esq.
One King Parrakeet.
- Carter, F., Esq.
One Bonnet-Monkey.
- Cartwright, W. J. E., Esq.
Two Long-legged Buzzards.
- Chadwick, Major.
Two European Lynxes.
- Chittenden, Dr. J. F., C.M.Z.S.
One Brazilian Tree-Porcupine.
- Clarke, A., Esq.
Six Herring-Gulls.
- Clarke, Capt.
One Bonnet-Monkey.
- Clayton, E., Esq.
One Common Marmoset, one Pinche Monkey.
- Cocks, A. H., Esq.
Two Lesser Black-backed Gulls.
- Coke, Capt. W. L.
Two Chacma Baboons.
- Colam, J., Esq., F.Z.S.
One Common Swan.
- Collingwood, Mrs.
Two Crested Guinea-fowls.
- Colman, J., Esq., C.M.Z.S.
One Red-crested Touracou, one Cape Zorilla.
- Cooper, J. A., Esq.
Two Greater Spotted Woodpeckers.
- Cornély, Mons. J. M., C.M.Z.S.
One Hybrid Guinea-fowl, two Prairie-Marmots.
- Cossback, J. W., Esq.
One Hawk's-billed Turtle.

- Cottenham, the Countess of.
Two Black-eared Marmosets.
- Cotton, Capt. F.
One Striped Hyæna, one Egyptian Fox.
- Crochett, E. A. B., Esq.
Two Laughing Kingfishers.
- Curtis, Samuel, Esq.
One Green Monkey.
- Dalrymple, Capt.
One Three-striped Paradoxure.
- Dalrymple, Sir Hew, Bart.
Six Common Guillemots.
- Davies, D., Esq., R.N.
One White-fronted Capuchin.
- Davies, W., Esq.
One Common Barn-Owl.
- Davis, Messrs. E. and W. H.
One Woodcock.
- Davis, Miss.
One Rhesus Monkey.
- Dent, A., Esq.
One Bornean Fireback.
- Denyssen, Mr. Justice.
Four Egyptian Geese.
- Donaldson, Robert, Esq.
Two Common Marmosets.
- Easson, Capt.
One Common Jackal.
- Eccles, Capt. W. H.
Two Black Swans.
- Enoch, Mr.
One Macaque Monkey.
- Farmer, J., Esq.
One Macaque Monkey.
- Feilden, Lieut.-Col.
Two Macaque Monkeys.
- Filliter, Capt. C. F.
One Campbell's Monkey.
- Fisher, C. H., Esq.
One Many-zoned Hawk.
- Fisk, Rev. G. H. R., C.M.Z.S.
Two Leopard-Tortoises, one Rhomb-marked Snake,
one Aurora Snake, three Rufescent Snakes, two
Radiated Tortoises, one Hoary Snake, one Hissing
Sand-Snake, one Ring-hals Snake.

- Floyer, F. A., Esq., F.Z.S.
One Caspian Ouaran.
- Forbes, A. C., Esq.
One Bonnet-Monkey.
- Fowler, Charles, Esq.
One Oriental Eagle-Owl.
- Fredericks, Mr. George.
One Common Fox.
- Garrett, G. H., Esq.
Two Mandrills, one Ocellated Monitor, one Green
Monkey, two Common Chameleons.
- Gedge, W. H., Esq.
One Pig-tailed Monkey.
- Gee, —, Esq.
One Nightingale.
- Giglioli, Prof., C.M.Z.S.
Six Brown Tritons.
- Gould, J., Esq.
Three Guinea-pigs.
- Graham, C., Esq.
One Mexican Deer.
- Greenwood, J., Esq.
One Green Tree-Frog.
- Hance, T., Esq.
One Slow Loris, three Common Cranes.
- Hancock, Hon. H. J. Burford.
One Short-tailed Capromys.
- Hands, H., Esq.
One Green Monkey.
- Harris, Miss.
Two Vinaceous Turtle Doves, one Greek Land-
Tortoise.
- Harte, Madame.
One Common Squirrel.
- Hatcher, W. H., Esq.
Two Black Rats.
- Hawtayne, G. H., Esq., C.M.Z.S.
One Golden Agouti, two South-American Rat-Snakes,
one Chequered Elaps, one Tiger-Bittern.
- Henderson, Capt.
One Hawk's-billed Turtle.
- Heyworth, Master R. C.
One Toque Monkey.

- Hinde, Mr. F.
One Bonnet-Monkey.
- Hole, Mrs. A. A.
One Greater Sulphur-crested Cockatoo.
- Howard, Percy, Esq.
One Suricate.
- Howes, Capt. E. J.
One Two-spotted Paradoxure.
- Hunter, Capt. F. M., B.C.S.
Two Beisa Antelopes.
- Huntly, Dr. J.
One Savigny's Eagle-Owl.
- Hyde, R. M., Esq.
One Red-billed Tree-Duck, one Scarlet Ibis.
- Ikin, J., Esq.
One White-cheeked Capuchin.
- Iliffe, J. A., Esq.
Three Rufous Tinamous.
- Inglis, R. W., Esq.
Two Persian Gazelles.
- Irby, Col., F.Z.S.
One Common Adder.
- Jackson, Miss M.
Two Red-faced Weaver-birds, one Chestnut-bellied
Finch, two Common Redpoles, two Canary Finches.
- Jaedecke, Mr. F. W.
One Wood-Owl.
- Jameson, J. B., Esq.
One Grey Ichneumon.
- Jameson, J. S., Esq.
One Bacha Eagle.
- Jamrach, Mr. A. H.
One Bronze Fruit-Pigeon.
- Johnson, C. F., Esq.
Six Goldfinches, one Common Chameleon.
- Jolliffe, Mrs. Hylton.
Two Undulated Grass-Parrakeets, one Saffron Finch.
- Jones, Edward, Esq.
One Common Roe.
- Jones, G. H., Esq.
Two Barbel.
- Jones, Heywood, Esq., F.Z.S.
One Japanese Wolf.

- Kendall, Mrs.
Seven Bankiva Jungle-fowls.
- Kenny, W. C., Esq.
One Black-faced Spider-Monkey.
- King, Capt.
One Brazilian Tortoise, one Red-and-yellow Macaw.
- King, G. H., Esq.
One Common Sole.
- Kirk, Mrs.
One African Leopard.
- Ladbury, G. E., Esq.
One Common Magpie, one Jackdaw.
- Lancelott, F., Esq.
One Common Gull.
- Landseer, T., Esq.
Two Herring-Gulls.
- Lawder, F. E., Esq.
Four Green Lizards.
- Lawrence, Rev. H. F. B.
One Banded Ichneumon.
- Lewis, L. E., Esq.
One Macaque Monkey.
- Liardet, J. E., Esq.
One Wood-Owl.
- Lilford, Lord, F.Z.S.
Two *Æsculapian* Snakes, two *Lacertine* Snakes, one
Horse-shoe Snake, one *Leopardine* Snake, one *Dark-*
green Snake, one *Four-rayed* Snake, one *Vivacious*
Snake, one *Spanish Blue* Magpie, three *Great*
Bustards.
- Lloyd, J., Esq.
One *Collared Peccary*.
- Lockley, E. H., Esq.
One *Grivet* Monkey.
- Loveless, Mr. C.
Two *Macaque* Monkeys.
- Mackie, W., Esq.
One *Macaque* Monkey.
- McIntosh, J., Esq.
Two *Spotted Ichneumons*.
- Mandeville, Viscount.
One *Common Adder*.
- Marks, V., Esq.
Two *Common Buzzards*.

- Marrett, Rev. E. L.
One Macaque Monkey.
- Marryat, Miss G. E.
One Green Monkey.
- Marshall, W. G., Esq.
Two Prairie-Marmots, two Leconte's Rattlesnakes,
one Cross Fox.
- Marx, Capt.
One Common Swan.
- Massey, J. D., Esq.
One Lion.
- Middleton, R. M., Esq.
One Black Rat.
- Milward, George, Esq.
One Green Monkey.
- Moir, Capt. J.
One Black-faced Spider Monkey, one Common Boa,
one West-Indian Rail, one Black Tortoise, one Ocelot.
- Momber, A., Esq.
One Passerine Owl.
- Monteiro, J. J., Mrs.
Two Cape Zorillas.
- Moss, T., Esq.
Two Egyptian Gazelles.
- Murray, Capt. J.
One Brown Mynah, one Pied Mynah, one Indranee
Owl, one Himalayan Bear, one Indian Crow.
- Neil, J. M., Esq.
One Macaque Monkey.
- Newman, W. H., Esq.
One White-handed Gibbon, one Brown Monkey.
- Nixon, Col.
One Persian Gazelle, one Goliath Heron.
- Nixon, G. E. P., Esq., M.D.
One Burrowing-Owl.
- O'Donoghue, T. H., Esq.
One Common Coot.
- Painter, Dr. F., F.Z.S.
One Hog-nosed Snake, one Copper-head Snake.
- Palmer, Miss E.
One Macaque Monkey.
- Palmer, S., Esq.
One Malayan Bear.

- Papillon, F., Esq.
One Greek Partridge.
- Parish, F., Esq.
Three Common Rheas.
- Parker, Mrs.
One Crested Ground-Parrakeet.
- Parr, J. Charlton, Esq.
One Hybrid Duck.
- Parsons, Mr.
Two Dace, one Eel.
- Patey, Madame.
One Grivet Monkey.
- Pauli, Major Newton.
Two Black Francolins, one Chukar Partridge.
- Payne, Mrs.
One Spotted Ichneumon.
- Pearson, J. G., Esq.
Four Cunningham's Skinks.
- Phillips, Capt.
Two Small-scaled Mastigures.
- Philpot, E. J., Esq.
Two Canadian Geese.
- Pitt, Mrs.
One Goffin's Cockatoo.
- Portocalis, N., Esq.
One Greater Sulphur-crested Cockatoo.
- Potier, H., Esq.
One Grison.
- Price, R. J. L., Esq., F.Z.S.
Seven Water-Ouzels.
- Pryer, Harry, Esq.
One Japanese Wild Dog.
- Pym, F., Esq.
One Macaque Monkey.
- Pyne, Mr. W.
One Spotted Ichneumon.
- Rice and A. H. Jamrach, Messrs.
One Robben-Island Snake.
- Rigg, W., and Curtiss, J., Messrs.
One Secretary Vulture.
- Riley, A., Esq.
One Common Fox.
- Ripley, Rev. W. N.
One Mona Monkey.

- Ritchie, J., Esq.
One White-backed Piping Crow.
- Rogers, F. A., Esq.
One Goffin's Cockatoo.
- Russ, Mrs.
One Common Peafowl.
- Russell, Lord Arthur, M.P., F.Z.S.
Two Green Tree-Frogs, one Spotted Salamander.
- Ruston, W., Esq.
One Leadbeater's Cockatoo.
- Saltoun, Lord, F.Z.S.
One Common Badger.
- Salvin, Capt. F. H.
Two Hooded Crows, one Water-Rail.
- Sargeant, Miss A.
Three Bullfinches.
- Sass, E. E., Esq.
One Common Paradoxure, one Common Hedgehog.
- Saville, Philip, Esq.
One Stump-tailed Lizard.
- Sclater, Master B. L.
Four Common Newts, one Smooth Newt.
- Sclater, Master G. L.
Eight Common Sticklebacks.
- Sclater, Master W. L.
One Sand-Lizard.
- Scratton, W. H., Esq.
One Hobby.
- Scrutton, A., Esq.
One Mexican Deer.
- Seyd, R., Esq., F.Z.S.
One Black-backed Jackal, two Common Carp.
- Sharpe, S., Esq.
One Common Fox.
- Shaw, Capt. W. Otho N.
One Green-winged Dove.
- Shaw, Mr. G. A.
One Yellow Baboon, two Ring-tailed Lemurs.
- Simmonds, W. H., Esq.
One Red-beaked Weaver-bird.
- Smith, Capt. J.
One Green Turtle.
- Smith, J., Esq.
One Common Jackal.

- Smith, H., Esq.
One Common Snake.
- Spicer, W. W., Esq.
One Common Chameleon.
- Squires, A. G. Lytton, Esq.
One Green Monkey.
- St. Aubyn, W. M., Esq.
One Black-eared Marmoset.
- Stanley, W. K., Esq.
One Common Snipe, one Short-eared Owl.
- Statter, Miss A.
One Indian Gazelle.
- Stradling, Dr. A.
One Common Boa, one Azara's Fox.
- Strauch, Dr. A., C.M.Z.S.
Four Horsfield's Tortoises.
- Sultan of Zanzibar, H.H. The
One Beisa Antelope.
- Tait, W. E., Esq., C.M.Z.S.
One Passerine Owl.
- Tennant, Mrs.
One Leadbeater's Cockatoo.
- Thompson, D'Arcy, Esq.
Two Rock-Sparrows.
- Thompson, J. H., Esq., C.M.Z.S.
Three Alligator Terrapins.
- Thompson, Messrs. J. H. and B. H.
One Common Badger.
- Thompson and Gough, Messrs.
One Common Seal.
- Thompson, S., Esq.
One Macaque Monkey.
- Thompson, W., Esq.
One Water-Rail, one Common Cormorant.
- Thomson, Mr. A.
Four Reeves's Terrapins.
- Toogood, F. B., Esq.
One Common Fox.
- Torpey, J., Esq.
One Wood-Owl.
- Tranchell, Mrs.
One Toque Monkey.
- Trelawny, Esq.
Two Mandarin Ducks.

- Tubbs, Robt., Esq., F.Z.S.
One Indian Leopard.
- Turner, Miss.
One Passerine Owl.
- Twining, G. W., Esq.
One Vervet Monkey.
- Upcher, H. M., Esq., F.Z.S.
One Short-toed Eagle.
- Verner, W., Esq.
One Solitary Thrush, one Horse-shoe Snake.
- Vincent, Prof. C. M., F.G.S., F.R.G.S.
One Prairie-Wolf.
- Vivian, Hon. H. C., H.B.M. Consul-General, Cairo.
Two Ostriches.
- Walcot, Mrs.
One Rhesus Monkey.
- Walker, Mrs. Leslie.
One Stanleyan Chevrotain, one Javan Chevrotain.
- Waller, E. S., Esq.
Two Squirrel-like Phalangers.
- Walters, Robt., Esq., F.Z.S.
One Pine-Marten.
- Warrington, A., Esq.
One Brown Capuchin, one Daubenton's Curassow.
- Waterhouse, Capt. E.
One Macaque Monkey.
- Webb, W., Esq.
One Arabian Gazelle.
- Wharton, C. B., Esq., F.Z.S.
One Wood-Owl.
- Wharton, H., Esq.
One Wood-Owl, one Blue-and-yellow Macaw.
- Whately, Dr., R.N.
One Macaque Monkey.
- Whitehead, Dr. Byron.
One Blue-fronted Amazon.
- Whitmarsh, H. B., Esq.
One Ocelot.
- Whyley, Mark, Esq.
One Arabian Gazelle.
- Wickenden, F., Esq.
One Rufous Rat-Kangaroo.
- Wiener, A. F., Esq.
One Hybrid Kaleege.

- Wigram, C. Hampden.
One Emu.
- Wilkinson, Rev. S. R., F.Z.S.
Two Lesser Black-backed Gulls.
- Willatt, Henry, Esq.
One Bonnet-Monkey.
- Williams, J., Esq.
One Green Monkey.
- Wilson, C. Rivers, Esq., C.B.
Two Secretary Vultures.
- Wilson, G., Esq.
One White-whiskered Paradoxure.
- Wilson, T., Esq.
One Caspian Terrapin.
- Witte, J. C., Esq.
One Horned Lizard.
- Wood, C., Esq.
Two Arabian Baboons.
- Wood, J. F., Esq.
One Macaque Monkey.
- Woodforde, Dr. A. P.
One Arabian Baboon.
- Wooler, J. W., Esq.
One White-eared Bulbul.
- Wormald, W., Esq.
Two White-crested Touracous.
- Wright, E., Esq.
One Malbrouck Monkey.
- Wright, H., Esq.
One Macaque Monkey.
- Wyatt, Commander.
One Barn-Owl.
- Wylde, W. H., Esq.
One Lion, one Patas Monkey.
- Wynn, Hon. C. H.
Two Brown Coatis.
- Yeomans, Mrs. George.
One Green Monkey.
- Young, J., Esq.
One Jay.

Conclusion.

In concluding their fiftieth Report, the Council think they may assure the Fellows that, although they are not able to give such a favourable account of every part of the Society's affairs as on some former occasions, there seems to be no cause for apprehension. The estimated Income of the Society for the present year considerably exceeds the necessary Expenditure; and there will be a balance applicable to new works and buildings or to special acquisitions, although, for the present, the Council would not think it advisable to enter upon any fresh undertaking that would involve a large outlay.

Lastly, 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.

Signed (for the Council),

P. L. SCLATER,

Secretary.

11 Hanover Square, April 29th, 1879.

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

Appointed January 16, 1879.

THE Committee of Auditors 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, 1878, 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, 1877						1,100	19	8
INCOME.								
Belonging		£	s.	d.	£	s.	d.	
to years								
1875	Proceedings.....				1	16	0	
1876	Annual Subscriptions				9	0	0	
1877	Rent for Freehold Premises	75	0	0				
	Garden Sales	372	9	6				
	Admission Fees	110	0	0				
	Subscriptions	24	0	0				
	Ivory Tickets	1	1	0				
	Proceedings.....	56	4	10				
	Transactions	97	8	2				
					736	3	6	
1878	Admissions to Gardens	16,516	6	0				
	Rent for Refreshment Rooms	963	8	4				
	Rent for Freehold Premises	225	0	0				
	Garden Sales	373	16	9				
	Admission Fees	705	0	0				
	Compositions	840	0	0				
	Subscriptions	6,620	5	0				
	Ivory Tickets	61	10	0				
	Transactions	100	0	10				
	Proceedings.....	91	13	2				
	Subscriptions to Publications	529	4	0				
	Dividend on Consolidated 3 per Cents.	29	10	11				
Ditto on S.W. Railw. Pref. Stk..	35	8	0					
Miscellaneous	11	11	5					
					27,102	14	5	
1879	Annual Subscriptions	81	0	0				
	Ivory Tickets	2	2	0				
	Publications.....	9	9	0				
					92	11	0	
1880	Publications.....				1	1	0	
1881	Publications.....				1	1	0	
INCOME RECEIVED IN 1878					27,944	6	11	27,944 6 11
Proceeds of sale of £1994 9s. 2d. Consoli- dated 3 per Cents (Davis Fund)								1,914 13 7
								30,960 0 2

PAYMENTS.

EXPENDITURE.	Belonging to		Total.
	1877.	1878.	
	£ s. d.	£ s. d.	£ s. d.
Rent, Rates, Taxes, and Insurances..Gardens	187 5 4	879 11 8	1,066 17 0
Ditto ditto .....Office	21 18 11	62 19 6	84 18 5
Salaries, Wages, and Pensions .....Gardens		3,430 2 0	3,430 2 0
Ditto ditto .....Office		2,071 14 2	2,071 14 2
Cost and Carriage of Animals.....	1,028 4 0	1,008 6 9	2,036 10 9
Provisions	326 16 6	4,249 13 2	4,576 9 8
Menagerie Expenses	472 17 9	2,612 17 9	3,085 15 6
Keepers' Dresses.....	20 0 0	137 1 6	157 1 6
Works, Materials, and Repairs	799 3 4	2,622 15 5	3,421 18 9
New Buildings		956 9 5	956 9 5
Garden Expenses	40 9 0	852 17 1	893 6 1
Advertisements	52 11 6	161 18 7	214 10 1
Band Expenses		224 18 3	224 18 3
House and Office Expenses .....Gardens	24 16 10	203 7 0	228 3 10
Ditto ditto .....Office	20 6 5	360 15 8	381 2 1
Stationery	21 3 1	63 0 0	84 3 1
Printing (Miscellaneous)... ..	23 7 6	418 0 9	441 8 3
Proceedings.....	446 13 5	1,634 6 7	2,081 0 0
Transactions	100 1 3	762 18 2	862 19 5
Library Expenses	124 8 4	281 8 0	405 16 4
Returned Subscriptions		43 2 0	43 2 0
Grant to the Zoological Record Association.....		50 0 0	50 0 0
Cost of Medals.....		10 11 6	10 11 6
Davis Lectures		64 18 11	64 18 11
Interest on Mortgage Debt.....		392 18 9	392 18 9
EXPENDITURE PAID IN 1878	3,710 3 2	23,556 12 7	27,266 15 9
Invested in the purchase of £1900 London and South-western Railway Company's New 4 per Cent. Preference Stock (Davis Fund)			1,938 9 6
Repaid Messrs. Drummond on account of Mortgage Debt			1,000 0 0
Cash at the Banker's, December 31, 1878, viz. {	General Account	£232 9 8	754 14 11
{ Petty Cash Account ...	522 5 3		
			30,960 0 2

Comparison of Receipts in 1877 and 1878.

<i>Receipts.</i>				
	Income of		Increase.	Decrease.
	1877.	1878.		
	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Admission Fees:—				
Past.....	85 0 0	110 0 0	25 0 0	.....
Present	955 0 0	705 0 0	.....	250 0 0
Annual Subscriptions:—				
Past.....	54 0 0	33 0 0	.....	21 0 0
Present	6,654 3 0	6,620 5 0	.....	33 18 0
Future	92 0 0	81 0 0	.....	11 0 0
Compositions	1,260 0 0	840 0 0	.....	420 0 0
Ivory Tickets	43 12 0	64 13 0	21 1 0	.....
Admissions to Gardens..	18,765 5 6	16,516 6 0	.....	2,248 19 6
Garden Sales	505 15 1	746 6 3	240 11 2	.....
Rent for Refreshment Rooms	1,051 0 0	963 8 4	.....	87 11 8
Rent for Premises in Oxford Street	74 1 3	300 0 0	225 18 9	.....
Publications	981 17 5	887 18 0	.....	93 19 5
Dividends	464 3 2	64 18 11	.....	399 4 3
Miscellaneous.....	2 4 9	11 11 5	9 6 8	.....
	30,988 2 2	27,944 6 11	521 17 7	3,565 12 10
Decrease.....	.....	3,043 15 3	Ded. Incr.	521 17 7
	30,988 2 2	30,988 2 2	.....	3,043 15 3
Total Receipts in 1878			£27,944 6 11	
Total Payments in 1878.....			27,266 15 9	
Receipts over Payments			677 11 2	
<i>Dr. Cash</i>				
			£ s. d.	
To Balance brought from December 31, 1877			1,100 19 8	
To Income received in the Year			27,944 6 11	
To Proceeds of sale of £1,994 9s. 2d. Consols			1,914 13 7	
			30,960 0 2	

Comparison of Payments in 1877 and 1878.

<i>Payments.</i>				
	Expenditure of		Increase.	Decrease.
	1877.	1878.		
	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Arrears of previous years	2,664 11 11	3,710 3 2	1,045 11 3	.....
Rent, Rates, Taxes, and Insurance	1,018 8 3	942 11 2	.....	75 17 1
Salaries, Wages, and Pensions	5,408 3 6	5,501 16 2	93 12 8	.....
Cost and Carriage of Animals	1,179 14 2	1,008 6 9	.....	171 7 5
Provisions	5,012 6 8	4,249 13 2	.....	762 13 6
Menagerie Expenses	2,972 4 7	2,612 17 9	.....	359 6 10
Keepers' Dresses	132 12 6	137 1 6	4 9 0	.....
Works, Materials, and Repairs	3,890 3 9	2,622 15 5	.....	1,267 8 4
New Buildings	844 13 11	956 9 5	111 15 6	.....
Garden Expenses	951 15 3	852 17 1	.....	98 18 2
Band Expenses	233 3 6	224 18 3	.....	8 5 3
Advertisements	242 16 0	161 18 7	.....	80 17 5
House and Office Expenses . .	729 8 5	564 2 8	.....	165 5 9
Stationery and Account Books	77 13 0	63 0 0	.....	14 13 0
Printing (Miscellaneous)	458 7 4	418 0 9	.....	40 6 7
Publications	2,623 17 2	2,397 4 9	.....	226 12 5
Library Expenses	335 1 2	281 8 0	.....	53 13 2
Returned Subscriptions	50 5 0	43 2 0	.....	7 3 0
Cost of Medals	68 5 0	10 11 6	.....	57 13 6
Grant in aid of Science	50 0 0	50 0 0	.....	.....
Expenditure of Davis Bequest	59 1 10	64 18 11	5 17 1	.....
Interest on Mortgage Debt . . . . .	.....	392 18 9	392 18 9	.....
	29,002 12 11	27,266 15 9	1,654 4 3	3,390 1 5
Decrease . . . . .	.....	1,735 17 2	Ded. Incr.	1,654 4 3
	29,002 12 11	29,002 12 11	.....	1,735 17 2
Ordinary Expenditure	27,290 13 7	25,048 1 6	.....	2,242 12 1
Extraordinary ditto	1,711 19 4	2,218 14 3	506 14 11	.....
	29,002 12 11	27,266 15 9	.....	1,735 17 2
<i>Contra</i>				<i>Cr.</i>
				£ s. d.
By Expenditure paid in the year				27,266 15 9
By Purchase of £1900 London and South-Western Railway Company's New 4 per Cent. Preference Stock				1,938 9 6
By Repayment to Messrs. Drummond on account of Mortgage				1,000 0 0
By Balance at Banker's, December 31, 1878				754 14 11
				30,960 0 2

The Assets and Liabilities of the Society on the 31st of December 1878 were as follow:—

ASSETS.					
	Arrears of		Freehold and Funded Property.	Cash.	Total.
	Previous Years.	Current Year.			
	£ s. d.	£ s. d.			
Cash at the Banker's				754 14 11	754 14 11
Cost of £1900 Lond. & South- western Ry. Co's New 4 per Cent. Preference Stock			1,938 9 6		1,938 9 6
Freehold Premises			*23,980 0 0		23,980 0 0
Annual Subscrip- tions	191 0 0	147 0 0			338 0 0
Ivory Tickets	6 6 0	6 6 0			12 12 0
Publications	22 5 3	186 15 2			209 0 5
Garden Sales	17 7 0	65 14 6			83 1 6
Rent for Refresh- ment Rooms		87 11 8			87 11 8
Rent for Freehold Premises in Ox- ford Street		75 0 0			75 0 0
	236 18 3	568 7 4	25,918 9 6	754 14 11	27,478 10 0

LIABILITIES.		
	Debts.	
	£ s. d.	£ s. d.
Bills, &c., estimated at—		
For the Gardens, say	1404 18 8	
General Establishment, say..	274 17 3	
		1679 15 11
Rent and Taxes unpaid—		
For the Gardens, say	214 5 11	
General Establishment, say..	10 18 9	
		225 4 8
Messrs. Drummond, Mortgage Debt		9000 0 0
Messrs. Main, Iron Shed		225 0 0
		11,130 0 7

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

The Auditors, for the first time during many years, are unable to congratulate the Fellows upon an increase in the Society's revenue; but they believe that this is owing to the general depression, which has had its effect upon all similar institutions.

It is, however, a circumstance for congratulation that the number of Fellows still continues to show a considerable increase, viz. fifty-eight.

In the receipts for Admission to the Gardens the greatest falling off is noticeable; this amounts to the sum of £2248 19s. 6d., making with the decrease in the other items of revenue a total decrease of £3043 15s. 3d. in the income as compared with 1877. It should be observed, however, that the receipts from admissions to the Gardens during 1878 are still £139 16s. 0d. in excess of the average of the last ten years.

On the other hand it is satisfactory to notice that the Liabilities, as shown in the Table, are £2889 13s. 6d. less than on December 31, 1877, whilst the working expenses have been diminished during the past year by the sum of £1735 17s. 2d.

The Auditors greatly regret the loss which the Society has sustained by the death of their late Accountant Mr. J. H. Leigh, to whose services they have so often borne testimony. They must add, however, that on the present occasion they have received efficient assistance from his successor, Mr. John Barrow.

JAMES TENNANT.
HERBERT DRUCE.
J. EDMUND HARTING.
EDWARD R. ALSTON.
EDWARD JOHNSTONE.
W. H. HUDLESTON.
HOWARD SAUNDERS.

11 Hanover Square, W.

February 27, 1879.





