

REPORT  
OF THE  
COUNCIL  
OF THE  
ZOOLOGICAL SOCIETY  
OF LONDON,  
FOR THE YEAR 1891.

READ AT THE ANNUAL GENERAL MEETING,

APRIL 29<sup>TH</sup>, 1892.

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1892.

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## REPORT OF THE COUNCIL.

*April 29, 1892.*

THE Council have the pleasure of submitting to the Fellows their sixty-third Annual Report upon the progress of the Society.

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

### I. GENERAL CONDITION OF THE SOCIETY.

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

##### *a. Fellows.*

The number of Fellows and Fellows Elect on the 1st of January, 1892, was 2985, classified as follows:—

Compounders who have paid £20 . . . . .	20
Ditto ditto £30 . . . . .	921
Compositions remitted . . . . .	21
Paying annual contributions of £2 . . . . .	11
Ditto ditto £3 . . . . .	1824
Dormant . . . . .	173
Admission-fees unpaid . . . . .	15
	———
	2985

The corresponding number of Fellows at the close of 1890 was 3046. The number of Fellows elected or re-admitted in 1891 was 118, being 3 less than the corresponding number in 1890.

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

Years.	Elected or Re-admitted.	Died.			Resigned.			Removed.			Ceased to be Fellows.	Number of Fellows, December 31.		
		Compounders.		Subscribers.	Subscribers.		Admission Fees Unpaid.	Subscribers.		Admission Fees Unpaid.				
		£20.	£30.		Fee re-mitted.	£2.		£3.	£2.				£3.	
1882.	164	3	23	1	4	61	...	48	...	...	11	13	164	3213
1883.	159	4	25	...	3	55	...	38	...	...	33	4	162	3210
1884.	183	1	28	...	5	53	...	37	...	1	7	6	138	3255
1885.	111	2	17	...	5	69	2	55	...	1	20	2	173	3193
1886.	123	4	22	...	4	64	...	59	...	...	12	5	170	3146
1887.	138	4	20	...	7	68	1	67	...	...	10	3	180	3104
1888.	122	1	10	1	3	58	...	54	...	...	15	8	150	3076
1889.	125	1	14	1	2	58	...	36	...	...	12	2	126	3075
1890.	121	...	29	1	4	60	...	42	...	...	8	6	150	3046
1891.	118	3	36	...	...	73	...	54	...	...	9	4	179	2985

The Council regret to have to call the attention of the Fellows to the continued falling-off in their numbers, which, as will be seen by the table just given, are now for the first time for many years reduced to less than 3000, and wish to urge upon them the importance of inviting fresh Members to join the Society. In keeping up a large collection of living animals for the instruction and amusement of the Public the Society is performing a function which in other countries is either undertaken, or at least materially assisted, by the public funds. The Council therefore feel that the Society deserves more support from those who are able to afford it, especially when the many facilities given for the enjoyment of the Gardens are taken into consideration. The Council propose to send out with each copy of this Report a prospectus and a form of proposal for a new Fellow, and trust that the present Fellows of the Society will exert themselves as much as possible to introduce new Members. However great may be the financial pressure upon the upper classes, it should certainly be possible to find at

least 3000 subscribers to what must be regarded as an important national undertaking, quite apart from its scientific claims.

b. *Foreign Member.*

Dr. E. H. Giglioli, of the Royal Superior Institute, Florence.

(In place of the late Mr. G. F. Westerman, deceased.)

c. *Corresponding Members.*

The following Corresponding Members have been elected since the last Anniversary:—

Keith Anstruther, Esq., of the British East-African Company's Service.

Walter J. Buck, Esq., of Jerez de la Frontera, Spain.

Mons. H. Crosse, of Paris.

W. D. Cumming, Esq., of the Persian Gulf Telegraph Service, Bushire.

Dr. C. Kerbert, Director of the Royal Zoological Society of Amsterdam.

Mons. François L'Hoëst, Director of the Zoological Garden, Antwerp.

Dr. C. J. Forsyth Major, of Florence.

Col. Sir Holled Smith, K.C.M.G., Suakim, Egypt.

Professor Franz Vejdovský, of the University of Prague.

Professor William B. Scott, of Princeton College, New Jersey, U.S.A.

## 2. STATE OF THE FINANCES.

a. *Income.*

Owing mainly to the unfortunate state of the weather on the great national holiday of Whitsuntide of last year, the receipts for admission to the Gardens for 1891 were less than those for the preceding year by a considerable amount. The whole sum received during Whitsun week in 1891 only amounted to £530 7s. 6d.—an amount usually more than realized on Whit Monday alone if the weather be good. The rain which prevailed throughout

the latter part of the summer and autumn likewise operated in the same direction, so that at the close of the year there was a total decrease of £687 2s. in the Receipts for admission to the Gardens as compared with 1890.

The same causes likewise effected a decrease in the Receipts arising from fees for riding on the Elephants and Camels to the amount of £113 17s. 11d., and of the rent received from the Refreshment Department to the amount of £41 15s. 4d. Under the other heads of income there is little to call for special notice, except that the amount from Annual Subscriptions was less by £149, owing to the decreasing number of Fellows, which has already been commented upon.

The total Receipts of the Society for the year 1891 were £24,054 17s. 3d., being £1005 0s. 7d. less than those for 1890, as is shown in the subjoined table, in which the increase or decrease under every head as compared with the corresponding amount in 1890 is given.

	Income of		Increase.	Decrease.
	1891.	1890.		
	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Admissions to Gardens .....	13,708 18 6	14,396 0 6	.....	687 2 0
Elephant and Camel riding receipts .....	610 16 8	724 14 7	.....	113 17 11
Garden Sales.....	454 3 5	349 14 10	104 8 7	.....
Rent for Refreshment-rooms ...	735 3 3	776 18 7	.....	41 15 4
Rent for Freehold Premises ...	238 16 0	232 10 0	6 6 0	.....
Admission Fees:—				
Past .....	55 0 0	85 0 0	.....	30 0 0
Present .....	485 0 0	460 0 0	25 0 0	.....
Annual Subscriptions:—				
Past .....	9 0 0	33 0 0	.....	24 0 0
Present .....	5,599 0 0	5,730 0 0	.....	131 0 0
Future .....	123 0 0	117 0 0	6 0 0	.....
Compositions .....	810 0 0	840 0 0	.....	30 0 0
Ivory Tickets .....	40 10 0	24 14 0	15 16 0	.....
Publications .....	705 11 10	809 13 11	.....	104 2 1
Zoological Record .....	266 3 9	298 12 9	.....	32 9 0
Dividends and Interest.....	94 4 3	92 4 9	1 19 6	.....
Miscellaneous .....	119 9 7	89 13 11	29 15 8	.....
	24,054 17 3	25,059 17 10	189 5 9	1,194 6 4
Decrease .....	1,005 0 7	.....	Ded. Incr.	189 5 9
	25,059 17 10	25,059 17 10	.....	1,005 0 7

The next Table shows the fluctuations of the Society's Income during the twenty years last past, fractions being omitted:—

*Annual Income of the Society during the past 20 years.*

Year.	Total Income. £	Year.	Total Income. £
1872	26,728	1882	34,270
1873	28,099	1883	28,966
1874	28,417	1884	28,939
1875	28,738	1885	25,809
1876	34,955	1886	25,787
1877	30,988	1887	23,102
1878	27,944	1888	24,025
1879	26,463	1889	26,427
1880	27,388	1890	25,059
1881	25,810	1891	24,054

*b. Expenditure.*

The ordinary expenditure of the Society in 1891, under which head is placed every item necessary to keep the whole establishment in perfect working order, was £23,350 17s. 7d. Besides this, the sum of £346 4s. 6d. was devoted to extraordinary expenditure under three heads, as follows:—

*Extraordinary Expenditure paid in 1891.*

<i>Works:—</i>	£	s.	d.	£	s.	d.
Photographic Kiosk .....	121	11	6			
New Sheep Yard .....	95	0	0			
	<hr/>			216	11	6
<i>Purchase of Animals:—</i>						
Snow-Leopard.....				100	0	0
<i>Special Publication:—</i>						
Index to Proceedings, 1881-90 .....				29	13	0
				<hr/>		
				£346	4	6
				<hr/>		

This raised the total expenditure for the year 1891 to £23,697 2s. 1d., showing a total increase over the previous year of £124 10s. 8d., as set forth in the subjoined table:—

	Expenditure of		Increase.	Decrease.
	1891.	1890.		
	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Rent, Rates, Taxes, and Insurance ...	1,680 15 2	1,593 8 0	87 7 2	.....
Salaries and Pensions.....	5,592 5 6	5,659 18 8	.....	67 13 2
Provisions .....	3,867 14 3	3,661 18 1	205 16 2	.....
Cost and Carriage of Animals .....	974 13 4	636 5 8	338 7 8	.....
Menagerie Expenses .....	3,445 12 5	3,351 5 2	94 7 3	.....
Keepers' Dresses .....	183 18 10	174 3 11	9 14 11	.....
Works, Materials, &c. ....	2,633 1 10	2,808 18 11	.....	175 17 1
Garden Expenses.....	758 11 10	790 13 8	.....	32 1 10
Advertisements.....	172 1 7	161 0 4	11 1 3	.....
Band Expenses .....	168 4 6	207 6 9	.....	39 2 3
House and Office Expenses ..	1,143 9 4	1,088 8 6	55 0 10	.....
Stationery and Printing (Miscellaneous) .....	387 11 3	356 11 3	31 0 0	.....
Cost of Publications ....	1,535 15 9	1,529 2 10	6 12 11	.....
Cost of Zoological Record.....	420 16 0	651 13 2	.....	230 17 2
Library Expenses.....	440 13 0	563 15 6	.....	123 2 6
Expenditure of Davis Bequest.....	74 2 0	79 5 0	.....	5 3 0
Interest on Mortgage-debt .....	175 10 0	214 10 0	.....	39 0 0
Miscellaneous .....	42 5 6	44 6 0	.....	2 0 6
	23,697 2 1	23,572 11 5	839 8 2	714 17 6
Increase .....	.....	124 10 8	714 17 6	Ded. Decr.
	23,697 2 1	23,697 2 1	124 10 8	.....
Ordinary Payments.....	23,350 17 7	23,342 6 11	8 10 8	.....
Extraordinary ditto.....	346 4 6	230 4 6	116 0 0	.....
	23,697 2 1	23,572 11 5	124 10 8	.....

The balance brought forward from 1890 was £784 19s. 10d.; this added to the income received in 1891 (£24,054 17s. 3d.) gave a total sum of £24,839 17s. 1d., which was actually more than sufficient to meet the expenditure of the year (£23,697 2s. 1d.) and to pay off the £1000 due to the Bankers for the annual instalment of the mortgage-debt due on the 15th of June. But as it was necessary to keep a floating balance on the Society's account, the Council were obliged to sell out the sum of £1000 Consols which was purchased from the surplus income of 1890.

Thus the balance-sheet of the year 1891, may be shortly given as follows:—

<i>Receipts, 1891.</i>		<i>Payments, 1891.</i>	
	£ s. d.		£ s. d.
Balance brought from December 31, 1890 .....	784 19 10	Expenditure paid in the year.....	23,697 2 1
Income received in 1891.....	24,054 17 3	Repayment of Mortgage-debt .....	1,000 0 0
Proceeds of Sale of £1000 Consols ...	948 14 6	Balance carried forward to 1892 ...	1,091 9 6
	£25,788 11 7		£25,788 11 7



It will be observed that the balance carried over to the present year exceeded that brought forward from 1890 by the sum of £306 9s. 8d., and that the whole expenditure for the year was £357 15s. 2d. less than the amount of Income.

*c. Assets and Liabilities.*

The Assets and Liabilities of the Society on December 31, 1891, were estimated as follows:—

ASSETS.

	£	s.	d.
Animals in the Menagerie in the Regent's Park .....	21,812	0	0
Books in the Library at Hanover Square .....	15,202	0	0
Unsold Publications .....	3,596	0	0
Stock of the Zoological Record .....	1,340	0	0
Freehold Premises .....	25,000	0	0
Value of £1,900 London and South-Western Railway New 4 per cent. Preference Stock (Davis Trust Fund).....	2,413	0	0
Cash at the Bankers (Messrs. Drummond) .....	1,091	9	6
Arrears considered good:—	£	s.	d.
Rent for Refreshment-Rooms .....	68	0	1
Rent for Rooms at Hanover Square .....	41	5	0
Garden Sales .....	91	7	6
Subscriptions .....	51	0	0
Publication Sales .....	139	11	4
Zoological Record Sales .....	8	15	0
		399	18 11
		£70,854	8 5

LIABILITIES.

	£	s.	d.	£	s.	d.
Rent and Taxes unpaid:—						
For the Gardens, say .....	256	2	3			
,, Office, say.....	43	2	6			
				299	4	9
Bills, &c., estimated at:—						
For the Gardens, say .....	527	12	9			
,, Office, say.....	476	18	2			
				1,004	10	11
Messrs. Drummond, Mortgage Debt.....				4,000	0	0
				£5,303	15	8

## II. OFFICE, 3 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 1891, 123 communications were made. Of these, 95 were from Fellows, 6 from Corresponding Members, and 1 from a Foreign Member of the Society. The remaining 21 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 1890 was 119.

These communications were submitted to the Committee of Publication, by whom 74 were ordered to be printed entire in the 'Proceedings' and 1 in the 'Transactions,' 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.

#### a. *Proceedings.*

The volume of 'Proceedings' for 1891 is on the table. It contains 703 pages illustrated by 50 plates. In the following table are given the number of pages and plates of the volumes of 'Proceedings' for the past ten years:—

	plates.	pages.
1882 . . . . .	61	827
1883 . . . . .	61	704
1884 . . . . .	58	645
1885 . . . . .	62	991
1886 . . . . .	60	716
1887 . . . . .	55	730
1888 . . . . .	32	717
1889 . . . . .	62	668
1890 . . . . .	57	730
1891 . . . . .	50	703

Those Fellows who wish to complete their sets of the 'Proceedings' are requested to take notice that it is now possible to supply coloured copies for some of the years which have hitherto been marked as "out of print," in particular those for 1864, 1875, 1879, 1880, 1884, and 1886. The following volumes for other years may also be had under special arrangements for colouring the plates, provided that applications are received for them, viz. 1872, 1873, 1876, 1881, 1885, and 1887.

b. *Transactions.*

Three parts of the quarto 'Transactions' were published in 1891, viz. :—

VOL. XIII. PART I. (January 1891).

On the Genus *Urothoe* and a new Genus *Urothoides*. By the Rev. Thomas R. R. Stebbing, M.A. (with four Plates).

On four new British Amphipoda. By the Rev. Thomas R. R. Stebbing, M.A., and David Robertson, F.L.S., F.G.S. (with two Plates).

VOL. XIII. PART II. (April 1891).

On the Morphology of a Reptilian Bird, *Opisthocomus cristatus*. By W. K. Parker, F.R.S. (with four Plates).

Contributions to our Knowledge of the Antipatharian Corals. By F. Jeffrey Bell, M.A., Sec.R.M.S., Corr. Mem. Linn. Soc. N.S.W., F.Z.S., Professor of Comparative Anatomy and Zoology in King's College, London (with two Plates).

VOL. XIII. PART III. (October 1891).

Catalogue of the Reptiles and Batrachians of Barbary (Morocco, Algeria, Tunisia), based chiefly upon the Notes and Collections made in 1880–1884 by M. Fernand Lataste. By G. A. Boulenger (with six Plates).

c. *Institutions receiving the Society's 'Proceedings' and 'Transactions.'*

The following is a list of the Institutions to which complete copies of the Society's 'Proceedings' and 'Transactions' are presented:—

AFRICA.

The South-African Museum, Cape Town.

AMERICA, SOUTH.

The Museum of Natural History, Buenos Ayres.  
The Museum of Natural History, Santiago, Chili.

AUSTRALASIA.

The Royal Society of Tasmania, Hobart.  
The Zoological and Acclimatization Society of Victoria, Melbourne.  
The Linnean Society of New South Wales, Sydney.  
The Royal Society of New South Wales, Sydney.  
The New-Zealand Institute, Wellington.

AUSTRIA.

The Imperial Academy of Sciences, Vienna.  
The Zoological and Botanical Society, Vienna.

BELGIUM.

The Entomological Society of Belgium, Brussels.  
The Malacological Society of Belgium, Brussels.  
The Royal Academy of Sciences, Brussels.  
The Royal Museum of Natural History, Brussels.

BRITISH INDIA.

The Asiatic Society of Bengal, Calcutta.  
The Geological Survey of India, Calcutta.  
The Indian Museum, Calcutta.

CANADA (DOMINION OF).

The McGill College, Montreal.  
The Geological Survey of Canada, Ottawa.  
The University of Toronto, Toronto.

CHINA.

The China Branch of the Royal Asiatic Society, Shanghai.

## EAST INDIES.

The Royal Society of the Dutch East Indies, Batavia.

## FRANCE.

The Linnean Society of Normandy, Caen.

The Agricultural Society, Lyons.

The Entomological Society of France, Paris.

The Museum of Natural History, Paris.

The National Society of Acclimatization, Paris.

## GERMANY.

The Royal Prussian Academy of Sciences, Berlin.

The Society of Friends of Natural History, Berlin.

The Natural-History Union for Rhineland and Westphalia, Bonn.

The Senckenbergian Society, Frankfort-on-Main.

The Zoologischer Garten (Direction of), Frankfort-on-Main.

The Royal Society of Sciences, Göttingen.

The Natural-History Society, Halle.

The Natural-History Union, Hamburg.

The Medical and Natural-History Society, Jena.

The Royal Bavarian Academy of Sciences, Munich.

The Union for Natural History of Würtemberg, Stuttgart.

## GREAT BRITAIN AND IRELAND.

The Belfast Natural History and Philosophical Society, Belfast.

The Philosophical Society, Cambridge.

The Royal Dublin Society, Dublin.

The Royal Irish Academy, Dublin.

The Geological Society, Dublin.

The Royal Physical Society, Edinburgh.

The Royal Society, Edinburgh.

The Free Public Library and Museum, Liverpool.

The Athenæum Club, London.

The British Museum of Natural History, London.

The Entomological Society, London.

The Geological Society, London.

The King's College Library, London.

The Linnean Society, London.

The London Institution.

The Royal College of Physicians, London.

The Royal College of Surgeons, London.

The Royal Geographical Society, London.

The Royal Institution, London.

The Royal Society, London.

The University College, London.

The Literary and Philosophical Society, Manchester.

- The Owens College, Manchester.  
 The Natural History Society, Newcastle-on-Tyne.  
 The Plymouth Institution and Devon and Cornwall Natural-  
 History Society, Plymouth.  
 The Marine Biological Laboratory, Plymouth.  
 The Yorkshire Philosophical Society, York.

## HOLLAND.

- The Royal Academy of Sciences, Amsterdam.  
 The Royal Zoological Society, Amsterdam.  
 The Dutch Society of Sciences, Haarlem.  
 The Dutch Entomological Union, The Hague.  
 The Royal Museum of the Netherlands, Leyden.

## ITALY.

- The Royal Institute of Superior Studies, Florence.  
 The Italian Society of Natural Sciences, Milan.  
 The Zoological Station, Naples.  
 The Royal Academy of the Lincei, Rome.  
 The Royal Academy of Sciences, Turin.

## RUSSIA.

- The Natural-History Society, Dorpat.  
 The Society of Sciences of Finland, Helsingfors.  
 The Imperial Society of Naturalists, Moscow.  
 The Entomological Society of Russia, St. Petersburg.  
 The Imperial Academy of Sciences, St. Petersburg.

## SCANDINAVIA.

- The Society of Sciences of Christiania, Christiania.  
 The Royal Danish Society of Sciences, Copenhagen.  
 The Royal Academy of Sciences, Stockholm.  
 The Royal Academy of Sciences, Upsala.

## SPAIN.

- The Royal Academy of Sciences, Madrid.

## SWITZERLAND.

- The Philosophical and Natural-History Society, Geneva.  
 The Canton de Vaud Society of Natural Sciences, Lausanne.  
 The Society of Natural Sciences, Neuchâtel.  
 The Natural-History Society, Zurich.

## UNITED STATES OF AMERICA.

- The Boston Society of Natural History, Boston.  
 The New-York Academy of Sciences, New York.

The Academy of Natural Sciences, Philadelphia.  
 The American Philosophical Society, Philadelphia.  
 The Entomological Society, Philadelphia.  
 The Peabody Academy of Sciences, Salem, Mass.  
 The Smithsonian Institution, Washington, D.C.  
 The United-States Geological Survey, Washington, D.C.

#### d. *Zoological Record.*

The 27th volume of the 'Zoological Record,' containing a summary of the work done by British and Foreign Zoologists in 1890, was issued to the Subscribers early in March of the present year.

Mr. F. E. Beddard, who has edited the Record during the past five years, having expressed a wish to be relieved of this duty, the Council have secured the services of Dr. David Sharp, F.R.S., for this laborious task, for the remuneration of which they have resolved to appropriate the income of the Davis Trust fund.

### 3. LIBRARY.

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

Many important additions were made to the Society's Library in 1891, among which attention may be called to the following donations:—

- Blanford. The Fauna of British India. Mammalia. Part ii. 1891. Presented by the Author.
- Bovallius. Contributions to a Monograph of the Amphipoda Hyperiidea. Part i. Nos. 1, 2. 1887-89. Presented by the Author.
- Distant. A Monograph of the Oriental CICADIDÆ. Part iv. 1891. Presented by the Trustees of the Indian Museum.
- Exner. Die Physiologie der facettirten Augen von Krebsen und Insecten. 1891. Presented by the Author.
- Foord. Catalogue of the Fossil Cephalopoda in the British Museum. Part ii. 1891. Presented by the Trustees of the British Museum.
- Giglioli. Primo Resoconto dei risultati della Inchiesta Ornitologica in Italia. Parte terza. 1891. Presented by the Author.
- Gray. On *Crax*, *Penelope*, &c. MS. Presented by Howard Saunders, Esq.

- Haeckel. Anthropogenie oder Entwicklungsgeschichte des Menschen. Vierte Auflage. 2 vols. 1891. Presented by the Author.
- Hampson. Illustrations of Typical Specimens of Lepidoptera Heterocera in the Collection of the British Museum. Part viii. 1891. Presented by the Trustees of the British Museum.
- Hart. Some account of the Fauna and Flora of Sinai, Petra, and Wâdy 'Arabah. 1891. Presented by the Author.
- Hartert. Katalog der Vogelsammlung im Museum der Senckenbergischen naturforschenden Gesellschaft. 1890. Presented by the Senckenbergian Natural History Society.
- Insect Life. Edited by C. V. Riley and L. C. Howard. Vols. i.-iv., nos. 1-4. 1888-91. Presented by the United States Department of Agriculture.
- Lilljeborg. Sveriges och Norges Fiskar. Häftet 7, 8. Presented by the Author.
- Lydekker. Catalogue of the Fossil Birds in the British Museum. 1891. Presented by the Trustees of the British Museum.
- . Catalogue of Fossil Mammals, Birds, Reptiles, and Amphibians in the Science and Art Museum, Dublin, 1891. Presented by the Author.
- Mivart. Introduction générale à l'Etude de la Nature. 1891. Presented by the Author.
- Monteiro. Delagoa Bay, its Natives and Natural History. 1891. Presented by the Publishers, Messrs. George Philip and Son.
- Newton (E. T.). The Vertebrata of the Pliocene Deposits of Britain. 1891. Presented by the Author.
- Newton (R. B.). Systematic List of the Frederick E. Edwards Collection of the British Oligocene and Eocene Mollusca. 1891. Presented by the Trustees of the British Museum.
- Norske Nordhavs-expedition, 1876-78. Part xx. Pycnogonidea. 1891. Presented by Prof. H. Mohn.
- Oustalet. Mission Scientifique du Cap Horn. Oiseaux. 1891. Presented by the Author.
- Przewalski. Wissenschaftliche Resultate der von N. M. Przewalski nach Central-Asien unternommenen Reisen. Band i. (Säugethiere), Lief. 4; ii. (Vögel), Lief. 2. 1890. Presented by the Imperial Academy of Sciences of St. Petersburg.
- Ramsay. Catalogue of the Australian Birds in the Australian Museum. Part iii. Psittaci. 1891. Presented by the Trustees of the Australian Museum.
- Slater (P. L.) and Shelley. Catalogue of the Birds in the British Museum. Vol. xix. 1891. Presented by the Trustees of the British Museum.
- Slater (W. L.). Catalogue of Mammalia in the Indian Museum. Part ii. 1891. Presented by the Trustees of the Indian Museum.
- Stoliczka. Scientific Results of the Second Yarkand Mission. Coleoptera, 1890, and Aves, 1891. Presented by the India Office.
- Watson. Hesperiidæ Indicæ. 1891. Presented by the Author.
- Woodward (A. S.). Catalogue of the Fossil Fishes in the British Museum. Part ii. 1891. Presented by the Trustees of the British Museum.
- Woodward (H. B.) and Newton. Memorials of John Gunn. 1891. Presented by E. T. Newton, Esq.



The following is a list of the principal zoological works in course of publication of which parts were purchased in 1891:—

- André. Species des Hyménoptères. Fasc. 37-40.  
Annals and Magazine of Natural History. Ser. 6. Vols. vii., viii.  
Auk. Vol. viii.  
Aurivillius. Nordens Fjärilar. Haftet 9-11.  
Bellardi. Catalogo generale dei Molluschi del Piemonte e della Liguria. Part viii.  
Berlese. Acari, Myriapodi e Scorpioni Italiani. Fasc. lvii.-lx.  
Berliner entomologische Zeitschrift. Band xxxvi. Heft 1.  
Blasius and Hayek. Ornith. Jahrb. vi. Heft 4; vii. Heft. 1-3.  
Bronn's Thierreich. Band ii. Abth. ii. (*Cœlenterata*), Lief. 2-5; Abth. iii. (*Echinodermen*), Lief. 10-14; Band v. Abth. ii. (*Arthropoda*), Lief. 29-31; Abth. iv. (*Vögel*), Lief. 35-41.  
Buckton. Monograph of the British Cicadae. Parts 5-8 (*completed*).  
Cap Horn. Mission Scientifique du. Tome vi. Zoologie. Oiseaux, Anatomie comparée and Echinodermes.  
Deutsche entomologische Zeitschrift. Band xxxvi. Heft 1.  
Doderlein. Manuale Ittiologico del Mediterraneo. Fasc. v.  
Edwards. Butterflies of North America. Ser. 3. Part 11.  
Entomologist. Vol. xxiv. Nos. 332-343.  
Entomologist's Monthly Magazine. Ser. 2. Vol. ii. Nos. 13-24.  
Entomologist's Record. Vol. i. Nos. 10-12; ii. Nos. 1-12.  
Fol. Recueil Zoologique Suisse. Tome v. No. 3.  
Fowler. Coleoptera of the British Isles. Parts 45-53 (*completed*).  
Ganglbauer. Die Käfer von Mitteleuropa. Band i.  
Giglioli. Iconografia dell' Avifauna Italica. Fasc. xlvi.  
Godman and Salvin. Biologia Centrali-Americana. Zoology, Parts xci.-xcviii.  
Grandidier. Histoire de Madagascar. Vol. x. (*Mammifères*), Tome v., Atlas ii., Part 1, Fasc. xxiii. Vol. xxii. (*Coléoptères*), Tome ii., Atlas, Part 2, Fasc. xxiv.; Vol. xxix. (*Plantes*), Tome iii., Atlas ii., Part 1, Fasc. xxii.  
Hatschek. Lehrbuch der Zoologie. Lief. iii.  
Hertwig. Lehrbuch der Zoologie. Theil i.  
Hofmann. Die Raupen der Schmetterlinge Europas. Lief. 5-13.  
Ibis. Ser. vi. vol. iii.  
Journal of Conchology. Vol. vi. Nos. 9-12.  
Journal of Morphology. Vol. iv. No. 2.  
Journal für Ornithologie. Band xxxviii. Heft. 3, 4; xxxix. Heft. 1-3.  
Keyserling and Marx. Die Spinnen Amerikas. Band iii.  
Kobelt. Rossmässler's Iconographie der europäischen Land- und Süßwasser-Mollusken. N. F. Band v. Lief. 1, 2.  
Koch. Die Arachniden Australiens. Lief. 37.  
Korschelt and Heider. Lehrbuch der vergleichenden Entwicklungsgeschichte. Heft 2.  
Leuckart and Chun. Bibliotheca Zoologica. Heft. vii., viii. Lief. 1, 2.  
Lilford. British Birds. Parts xvii.-xx.  
Lowne. Anatomy, Physiology, Morphology, and Development of the Blow-fly. Part 2.  
Mabille and Vuillot. Novitates Lepidopterologicae. Fasc. iii.-vi.

- Marshall. Zoologische Vorträge. Heft. 6-8.  
 Martini and Chemnitz. Conchylien-Cabinet. Lief. 382-389.  
 Meinert. Entomologiske Meddelelser. Bind ii. Hefte 5, 6; iii. Hefte 1, 2.  
 Mémoires concernant l'Histoire Naturelle de l'Empire Chinois. Tome i. Cahier 4; ii. Cahier 1.  
 Menzbier. Ornithologie du Turkestan. Livr. iii. Text and Atlas.  
 Meyer. Abbildungen von Vogel-Skeletten. Lief. xiv., xv.  
 Moore. Lepidoptera Indica. Parts 5-8.  
 Mosley. A History of British Birds. Nos. 66-68.  
 Oberthür. Études d'Entomologie. Livr. xiv., xv.  
 Olphe-Galliard. Contributions à la Faune Ornithologique de l'Europe Occidentale. Fasc. xiv., xv., xxvi., xxvii., xxxii., xxxiv., xxxv.  
 Paetel. Catalog der Conchylien-Sammlung. Lief. xvii., xviii.  
 Pleske. Ornithographia Rossica. Band ii. Lief. 4.  
 Prenant. Eléments d'Embryologie. Livr. 1.  
 Provancher. Petite Faune Entomologique du Canada. Vol. iii.  
 Retzius. Biologische Untersuchungen. N. F. i.  
 Riesenthal. Die Kennzeichen der Vögel Mitteleuropa's. Abth. 3.  
 Rippon. Icones Ornithopterorum. Parts 3, 4.  
 Saalmüller. Lepidopteren von Madagascar. Abth. 2.  
 Sars. An Account of the Crustacea of Norway. Vol. i. Nos. 1-7.  
 Schneider. Zoologische Beiträge. Band ii. Heft 3; iii. Heft 1.  
 Seidlitz. Fauna Transsylvanica. Die Käfer. Lief. v., vi.  
 ——. Fauna Baltica. Die Käfer. Zweite Auflage. Lief. vi.  
 Selenka. Studien über Entwicklungsgeschichte der Tiere. Heft v., Hälfte 1.  
 Semper (C.). Reisen im Archipel der Philippinen. Theil ii. Band v. Lief. 5, 6.  
 Sepp. Nederlandsche Insecten. Deel iv. Nos. 41, 42.  
 Sharpe. Monograph of the Paradiseidæ. Part 1.  
 — and Wyatt. Monograph of the Hirundinidæ. Parts xiii., xiv.  
 Smith and Kirby. Rhopalocera Exotica. Parts xv.-xviii.  
 Spengel. Zoologische Jahrbücher. Band iv. (*Anat.*), Heft. 3, 4; v. Heft 1; v. (*Systematik*), Heft. 4, 5; vi. Heft 1.  
 Stoliczka. Scientific Results of the Second Yarkand Mission. Aves.  
 Taschenberg. Bibliotheca Zoologica ii. Lief. ix.  
 Thomson. Opuscula Entomologica. Fasc. xv.  
 Troschel. Das Gebiss der Schnecken. Band ii. Lief. 7.  
 Tryon. Manual of Conchology. Parts xlvii.-xlix. Ser. 2. Parts xxiii.-xxv.  
 Tunisie. Exploration Scientifique de la Tunisie. Text, Part 2, Mollusques fossiles.  
 Vogt and Yung. Traité d'Anatomie Comparée. Livr. 18.  
 ——. Lehrbuch der Anatomie. Band ii. Lief. 7, 8.  
 Weber. Zoologische Ergebnisse einer Reise in Niederländisch Ost-Indien. Band i. Heft ii.; Band ii. Heft i.  
 Wilson and Evans. Aves Hawaiienses. Parts 1, 2.  
 Zoe. Vol. i. Nos. 9-12; ii. Nos. 1, 2.  
 Zoologist. Ser. 3, vol. xv.

Some of the most important additions to the Society's

Library, purchased since the last Anniversary, are the following:—

- Ameghino. Contribucion al Conocimiento de los Mamiferos Fossiles de la República Argentina. Text and Atlas. 2 vols. Folio, 1889.
- Borrer. The Birds of Sussex. 8vo. 1891.
- Brooks. The Oyster. 8vo. 1891.
- Buckley and Harvie-Brown. A Vertebrate Fauna of the Orkney Islands. 8vo. 1891.
- Büttikofer. Reisebilder aus Liberia. 2 vols. 8vo. 1890.
- Casati. Ten Years in Equatoria. 2 vols. 8vo. 1891.
- Cunningham. A Treatise on the Common Sole. 4to. 1890.
- Ellenberger and Baum. Systematische und topographische Anatomie des Hundes. 8vo. 1891.
- Fauna of British India. Birds. Vol. ii. By Eugene W. Oates. Reptilia and Batrachia. By G. A. Boulenger. 8vo. 1890.
- Flower and Lydekker. An Introduction to the Study of Mammals. 8vo. 1891.
- Fraas. Die Ichthyosaurier der Süddeutschen Trias- und Jura-Ablagerungen. 4to. 1891.
- Gätke. Die Vogelwarte Helgoland. Royal 8vo. 1891.
- Graff. Die Organisation der Turbellaria Acoela. 4to. 1891.
- Hagerup. The Birds of Greenland. 8vo. 1891.
- Harting. Bibliotheca Accipitraria. 8vo. 1891.
- Hastings. Illustrations of the Natural History of Worcestershire. 8vo. 1834.
- Heyden, Reitter, and Weise. Catalogus Coleopterorum Europæ. 8vo. 1891.
- Hornaday. Taxidermy. 8vo. 1891.
- Hübner. Geschichte europäischer Schmetterlinge. 6 vols. 4to. 1806-41.
- Jäckel. Systematische Uebersicht der Vögel Bayerns. 8vo. 1891.
- Lankester. Zoological Articles contributed to the 'Encyclopædia Britannica.' 4to. 1891.
- Locard. Etudes sur les Variations Malacologiques. 2 vols. Royal 8vo. 1881.
- Macquart. Diptères Exotiques. 2 vols. and 5 supplements. 8vo. 1838-55.
- Murray. The Avifauna of the Island of Ceylon. 8vo. 1890.
- Nicholson. A Manual of Zoology. 7th edition. 8vo. 1887.
- Parker. Lessons in Elementary Biology. 8vo. 1891.
- Philpots. Oysters and all about them. 2 vols. 8vo. 1890-91.
- Reuvsen. Die Myoxidæ. 4to. 1890.
- Rondani. Genera Italica Ordinis Dipteriorum. 7 vols. 8vo. 1856-77.
- Saint-Hilaire. Histoire Naturelle des Perroquets. Vol. iii. Folio, 1837-38.
- Schulz. The Falkland Islands. 4to. 1891.
- Sharpe. A Review of Recent Attempts to classify Birds. Royal 8vo. 1891.
- Simroth. Die Entstehung der Landtiere. 8vo. 1891.
- Wright. The Ice Age in North America. 8vo. 1890.

The following is a list of the periodicals received in 1891 from the various Societies and Institutions with which this Society is in correspondence.

AMERICA (NORTH).

The New York State Library, Albany.

Bulletin of the Museum, nos. 7-10.  
Memoirs of the Museum, vol. i. no. 1.

The American Academy of Arts and Sciences, Boston.

Proceedings, n. s., vol. xvii.

The Boston Society of Natural History, Boston.

Proceedings, vol. xxv., parts 1, 2.

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

Bulletin, vol. xvi., no. 10; xx., nos. 4-8; and xxi., nos. 1-5.  
Annual Report, 1889-90.

The Connecticut Academy of Arts and Sciences, Connecticut.

Transactions, vol. viii., part 1.

The Nova Scotia Institute of Natural Science, Halifax.

Proceedings and Transactions, vol. iv., parts 1, 3, 4; vii., part 4.

The Meriden Scientific Association, Meriden.

Transactions, vol. iv.

The "Antonio Alzate" Scientific Society, Mexico.

Memorias, tomo iv., cuad. 3-12.

The Geological and Natural History Survey of Minnesota, Minneapolis.

Annual Report, 18.  
Bulletin, no. 6.

The Royal Society of Canada, Montreal.

Proceedings and Transactions, vol. viii.

The New York Academy of Sciences, New York.

Annals, vol. v., nos. 4-8, and extra nos. 1-3.  
Transactions, vol. ix., nos. 3-8; x., nos. 2-6.

- The Academy of Natural Sciences, Philadelphia.**  
 Proceedings, 1890, parts 2, 3; 1891, parts 1, 2.
- The American Entomological Society, Philadelphia.**  
 Transactions, vol. xvii., nos. 3, 4; xviii., no. 1.  
 Entomological News, vol. i., nos. 7-10; ii., nos. 1-9.
- The American Philosophical Society, Philadelphia.**  
 Proceedings, vol. xxviii., no. 134; xxix., no. 135.
- The Franklin Institute, Philadelphia.**  
 Journal, 1891.
- The Rochester Academy of Science, Rochester.**  
 Proceedings, vol. i., brochure 1.
- The American Association for the Advancement of Science,  
 Salem.**  
 Proceedings, 39th Meeting, Indianapolis, 1890.
- The Smithsonian Institution, Washington.**  
 Annual Reports, 1888 and 1889.  
 Smithsonian Contributions to Knowledge, vol. xxvii., pp. 1-116.  
 Smithsonian Miscellaneous Collections, xxxiv., art. 1-3, and  
 nos. 594, 663, 785.
- The United States Fish Commission, Washington.**  
 Bulletin, vol. viii.  
 Report, part xv.
- The United States Geological Survey, Washington.**  
 Bulletin, nos. 58-61, 63, 64, 66.  
 Monographs, vol. i.  
 Annual Report 9.  
 Mineral Resources of the United States, 1888.
- The United States National Museum, Washington.**  
 Proceedings, vol. xiii.; xiv., nos. 842-852, 856-861, 864.

#### AMERICA (SOUTH).

- The National Museum of Buenos Ayres.**  
 Anales, entr. 17.
- The National Museum of Rio de Janeiro.**  
 Archivos, vol. vii.

## AUSTRALIAN COLONIES.

**The Royal Society of South Australia, Adelaide.**

Transactions, Proceedings, and Report, vol. xiii., part 2; xiv., part 1.

**The Royal Society of Tasmania, Hobart.**

Papers and Proceedings for 1890.

**The Zoological and Acclimatization Society of Victoria, Melbourne.**

Annual Report, 1890.

**The Australian Museum, Sydney.**

Records, vol. i., nos. 4-9.

**The Linnean Society of New South Wales, Sydney.**

Proceedings, ser. 2, vol. v., parts 2-4; vi., part 1.

**The Royal Society of New South Wales, Sydney.**

Journal and Proceedings, vol. xxiv., parts 1, 2.

**The New-Zealand Institute, Wellington.**

Transactions and Proceedings, vol. xxiii.

## AUSTRIA.

**The Academy of the University, Cracow.**

Bulletin, 1890, no. 10; 1891, nos. 1-9.  
Sprawozdanie komisji fizyjograficznej, tomes xxii.-xxiv.  
Rocznik, 1888.

**The Imperial Academy of Sciences, Vienna.**

Denkschriften, Bande lvi., lvii.  
Sitzungsberichte, Band xcvi., Heft. 4-10; xcix.

**The Zoological and Botanical Society, Vienna.**

Verhandlungen, Band xl., Quartal. 3, 4; xli., Quartal. 1, 2.

## BELGIUM.

**The Royal Academy of Sciences, Letters and Fine Arts,  
Brussels.**

Annuaire, 1890, 1891.

Bulletin, sér. 3, tomes xviii.-xxi.

Mémoires couronnés (8vo), tomes xliii.-xlv.

— — (4to), tomes l., li.

Catalogue des Livres de la Bibliothèque, part 2.

## CHINA.

**The China Branch of the Royal Asiatic Society, Shanghai.**

Journal, n. s., vol. xxiv.

## EAST INDIES.

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

Natuurkundig Tijdschrift, deel 1.

**The Bombay Natural-History Society, Bombay.**

Journal, vol. v., no. 4; vi., nos. 1, 2.

**The Asiatic Society of Bengal, Calcutta.**

Proceedings, 1890, nos. 4-10; 1891, nos. 1-6.

Journal, vol. lviii., part 2, no. 5; lix., part 2, nos. 2-5 and Supplement 2; lx., part 2, no. 1.

**The Geological Survey of India, Calcutta.**

Records, vol. xxiii., part 4; xxiv., parts 1-3, and Index to vols. i.-xx.

Memoirs, vol. xxiii.; xxiv., part 3.

Memoirs (Palæontologia Indica), ser. 13, vol. iv., part 2.

**The Royal Asiatic Society, Ceylon Branch, Colombo.**

Journal, vol. x., no. 37; xi., no. 38.

Proceedings, 1887-88.

List of Journals and Proceedings, 1845-88.

## FRANCE.

**The Linnean Society of Normandy, Caen.**

Bulletin, sér. 4, tome iv.; v., fasc. 1, 2.

**The Entomological Society, Paris.**

Annales, sér. 6, tome x.

**The Museum of Natural History, Paris.**

Nouvelles Archives, sér. 3, tome ii., fasc. 2; iii., fasc. 1.

**The National Society of Acclimatation, Paris.**

Revue des Sciences Naturelles appliquées, 1891, nos. 1-24.

**The Philomathic Society, Paris.**

Bulletin, sér. 8, tome ii., no. 4; iii., nos. 1-3.  
Table générale par noms d'Auteurs, 1836-88.

**The Natural History Society, Toulouse.**

Bulletin, 1889, Juli-Dec.; 1890, Jan.-Juin.

**GERMANY.****The Royal Prussian Academy of Sciences, Berlin.**

Sitzungsberichte, 1890, nos. 41-53; 1891, nos. 1-40.  
Abhandlungen, 1890.

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

Sitzungs-Berichte, 1890.

**The Natural History Union of Rhenish Prussia and Westphalia, Bonn.**

Verhandlungen, Jahrg. xlvii., Hälfte 1, 2; xlviii., Hälfte 1.

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

Nachrichtenblatt, 1891, nos. 1-12.

**The New Zoological Society, Frankfort a. M.**

Der Zoologische Garten, Jahr. xxxi., no. 12; xxxii., nos. 1-9.

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

Abhandlungen, Band xvi., Heft. 2-4.  
Bericht, 1890, 1891.

**The Royal Society of Sciences, Göttingen.**

Nachrichten, 1890.  
Abhandlungen, Band xxxvi.



The Imperial Leopoldino-Carolinian Academy of Naturalists, Halle.

Nova Acta, Band liv.  
Leopoldina, Heft. xxv., xxvi.

The Natural History Union, Hamburg.

Abhandlungen, Band xi., Heft. 2, 3.

The Union for Natural History Intercourse, Hamburg.

Verhandlungen, Band vii.

The Medical and Natural-History Society, Jena.

Jenaische Zeitschrift, Band xxv., Heft. 3, 4; xxvi., Heft. 1, 2.

The Royal Bavarian Academy of Sciences, Munich.

Abhandlungen, Band xvii., Abth. 2.  
Sitzungsberichte, 1890, Heft 4; 1891, Heft. 1, 2.

The Westphalian Provincial Union of Science and Art, Münster.

Jahresbericht, xviii.

The Natural-History Union, Würtemberg.

Jahreshefte, Jahrg. xlvii.

#### GREAT BRITAIN AND IRELAND.

The Essex Field Club, Buckhurst Hill, Essex.

The Essex Naturalist, vol. iv., nos. 10-12; v., nos. 1-6.

The Philosophical Society, Cambridge.

Proceedings, vol. vii., parts 3, 4.  
Transactions, vol. xv., part 1.

The Royal Dublin Society, Dublin.

Proceedings, n. s., vol. vi., part 10; vii., parts 1, 2.  
Transactions, ser. 2, vol. iv., parts vi.-viii.

The Royal Irish Academy, Dublin.

Proceedings, ser. 3, vol. i., nos. 4, 5; ii., no. 1.  
Transactions (Science), vol. xxix., parts 14-17.

**The Royal College of Physicians, Edinburgh.**

Reports from the Laboratory, vol. iii.

**The Royal Physical Society, Edinburgh.**

Proceedings, Session 1889-90.

**The Royal Society, Edinburgh.**

Proceedings, vol. xvii., part 6; xviii., parts 1, 2.  
Transactions, vol. xxxiv.; xxxvi., part 1.

**The Hertfordshire Natural-History Society, Hertford.**

Transactions, vol. vi., parts 3, 4.

**The Philosophical and Literary Society, Leeds.**

Annual Report, 1890-91.

**The British Association for the Advancement of Science,  
London.**

Report, 60th Meeting, Leeds, 1890.

**The Entomological Society, London.**

Transactions, 1890, parts 4, 5; 1891, parts 1-4.

**The Geological Society, London.**

Quarterly Journal, vol. xlvii.

**The Linnean Society, London.**

Journal (Zoology), vol. xxiii., nos. 147, 148; xxiv., nos. 149, 150.

— (Botany), vol. xxvi., no. 176; xxvii., nos. 187, 188; xxviii., nos. 193-195; xxix., no. 197.

Transactions (Zoology), ser. 2, vol. v., nos. 4-7.

— (Botany), ser. 2, vol. iii., nos. 2, 3.

Proceedings, Nov. 1888-June 1890.

**The Quekett Microscopical Club, London.**

Journal, ser. 2, vol. iv., nos. 28, 29.

**The Royal Agricultural Society of England, London.**

Journal, ser. 3, vol. i., part 4; ii., parts 1-4.

The Royal Gardens, Kew, London.

Bulletin, 1891, nos. 49-57.

The Royal Geographical Society, London.

Proceedings, vol. xiii.

The Royal Horticultural Society, London.

Journal, vol. xiii., parts 1-3.

The Royal Institution of Great Britain, London.

Proceedings, vol. xiii., part 1.

Additions to 2nd vol. of Library Catalogue, 1882-90.

The Royal Society, London.

Proceedings, vol. xlvi., no. 295; xlix.; l., no. 302.

Philosophical Transactions, vol. 181 (B).

The Royal United Service Institution, London.

Journal, 1891.

The Selborne Society, London.

Nature Notes, nos. 13-24.

The Society of Arts, London.

Journal, 1891.

The Literary and Philosophical Society, Manchester.

Memoirs and Proceedings, ser. 4, vol. iv., nos. 1-3.

The Owens College, Manchester.

Studies from the Anatomical Department, vol. i.

The Nottingham Naturalists' Society, Nottingham.

Transactions and 38th Annual Report, 1890.

The Marine Biological Association, Plymouth.

Journal, n. s., vol. ii., nos. 1, 2.

The Plymouth Institution and Devon and Cornwall  
Natural-History Society, Plymouth.

Annual Report and Transactions, vol. xi., part 1.

The Royal Institution of Cornwall, Truro.

Journal, vol. x., part ii.

The Yorkshire Philosophical Society, York.

Annual Report, 1890.

HOLLAND.

The Royal Academy of Sciences, Amsterdam.

Verhandelingen, deel xxviii.

Verslagen en Mededeelingen (Letterkunde), derde reeks,  
deel vii.

Jaarboek, 1890.

The Dutch Society of Sciences, Haarlem.

Archives Néerlandaises, tome xxiv., livr. 4, 5; xxv., livr. 1-4.

The Entomological Society of the Netherlands, The Hague.

Tijdschrift voor Entomologie, deel xxxiii., afl. 3, 4; xxxiv.,  
afl. 1, 2.

ITALY.

The National Central Library, Florence.

Bollettino, 1891, num. 121-144.

The Italian Society of Natural Sciences, Milan.

Atti, vol. xxxiii., fasc. 2.

The Zoological Station, Naples.

Mittheilungen, Band ix., Heft 4; x., Heft 1.

The Royal Academy of the Lincei, Rome.

Rendiconti, ser. 4, vol. vi., sem. 2, fasc. 10-12; vii., sem. 1,  
fasc. 1-12; sem. 2, fasc. 1-10.

The Museum of Zoology and Comparative Anatomy of  
the Royal University, Turin.

Bollettino, vol. v., nos. 87-93; vi., nos. 94-103.

**The Royal Academy of Sciences, Turin.**

Atti, vol. xxvi., disp. 1-15.  
Memorie, ser. 2, tomo xli.

**JAPAN.****The Imperial University, Tōkyō.**

Journal of the College of Science, vol. iv., parts 1, 2.  
Mittheilungen aus der Medicinischen Facultät, Band i., no. 4.

**PORTUGAL.****The Royal Academy of Sciences, Lisbon.**

Jornal, ser. 2, tomo ii., nos. 5, 6.

**The "Carlos Ribeiro" Society, Oporto.**

Revista de Sciencias Naturaes e Sociaes, vol. ii. nos. 5, 6.

**RUSSIA.****The Natural-History Society, Dorpat.**

Sitzungsberichte, Band ix., Heft 2.  
Schriften, vi.

**The Society of Sciences of Finland, Helsingfors.**

Öfversigt, vol. xxxii.  
Bidrag, vols. xlix., l.  
Acta, tomus xvii.

**The Imperial Society of Friends of Natural Science, Anthropology, and Ethnography of the University of Moscow.**

Mémoires, tome lv., part iii. ; lvii., part iv. ; lxx., part vi.

**The Imperial Society of Naturalists, Moscow.**

Bulletin, 1890, nos. 3, 4; 1891, no. 1.

**The Entomological Society of Russia, St. Petersburg.**

Horæ, tome xxv.

**The Royal Academy of Sciences, St. Petersburg.**

Mémoires, sér. 7, tome xxxviii., nos. 2, 3.

## SCANDINAVIA.

## The Natural-History Society, Copenhagen.

Videnskabelige Meddelelser, aarat 1890.

## The Royal Danish Society of Sciences, Copenhagen.

Oversigt, 1890, nos. 2, 3; 1891, no. 1.

Mémoires, sér. 6, vol. v., no. 3; vi., no. 2; vii., nos. 1, 2.

## The Tromsö Museum, Tromsö.

Aarshefter, xiii.

Aarsberetning for 1889.

## The Royal Society of Sciences, Upsala.

Nova Acta, ser. 3, vol. xiv., fasc. 2.

## SPAIN.

## Royal Academy of Sciences, Madrid.

Memorias, Tomo xv.

## SWITZERLAND.

## The Physical and Natural History Society, Geneva.

Mémoires, tome xxxi., part 1.

## The Vaudois Society of Sciences, Lausanne.

Bulletin, sér. 3, vol. xxvi., no. 102; xxvii., nos. 103, 104.

## The Natural Science Society, St. Gall.

Bericht, 1888-89.

## The Natural-History Society, Zurich.

Vierteljahrschrift, Jahr. v., xxxiii., Heft 2; xxxv., Heft. 2-4;  
xxxvi., Heft. 1, 2.

## WEST INDIES.

## The Institute of Jamaica, Kingston.

Journal, vol. i., no. 1.

Donations, Memoirs, and Papers have also been received from :—Señ. F. Ameghino; the Editors of the 'American Journal of Science'; the Editors of the 'American Naturalist'; the American Ornithologists' Union; the Editors

of the 'Athenæum'; the Editor of the 'Year-book of Australia'; the Australian Museum; the South Australian Zoological and Acclimatization Society; Mons. A. Boucard; the British Museum; the Geological and Natural History Survey of Canada; Prof. G. Canestrini; T. D. A. Cockerell, Esq.; F. H. Collins, Esq.; the Editor of 'The Conchologist'; Mons. H. Crosse; Walter Crouch, Esq.; the East India Association; Henry Evans, Esq.; Prof. Carl Gegenbaur; J. G. Goodchild, Esq.; the Great Eastern Railway Company; Henry Grey, Esq.; R. J. L. Guppy, Esq.; the publishers of 'Hazell's Annual'; the India Office; the Indian Museum; J. E. Ives, Esq.; the Editors of the 'Journal of Comparative Medicine and Veterinary Archives'; the Editors of the 'Journal de Conchyliologie'; the La Plata Museum; Mons. F. Lataste; the Society of Naturalists, Luxemburg; R. Lydekker, Esq.; Prof. O. C. Marsh; the Geological and Natural History Survey of Minnesota; W. H. Miskin, Esq.; Prof. K. Möbius; Señ. F. P. Moreno; the Editors of 'The Naturalist'; the Editors of 'Nature'; Dr. A. Nehring; E. T. Newton, Esq.; R. B. Newton, Esq.; the New York State Library; the Colonial Museum and Geological Survey of New Zealand; A. J. North, Esq.; the Editors of the 'Open Court'; the Zoological Society of Philadelphia; the Royal College of Physicians, London; Bernard Quaritch, Esq.; the Queensland Government; Dr. G. Radde; the Editors of the 'Revue Britannique'; C. V. Riley, Esq.; the National Museum of Rio de Janeiro; the Salford Museum; P. L. Sclater, Esq.; W. L. Sclater, Esq.; C. D. Sherborn, Esq.; Dr. R. W. Shufeldt; the Smithsonian Institution; the Stavanger Museum; Prof. J. Steenstrup; Dr. E. C. Stirling; Dr. Michele Stossich; Prof. T. Thorell; Trinity College; the United States Department of Agriculture; the United States Fish Commission; University College; and F. H. Waterhouse, Esq.

#### 4. STAFF.

The staff on the books at the Office, 3 Hanover Square, consists of an Accountant, 4 Clerks, a Librarian, a House-keeper, and a Messenger. Besides these, there are an Engineer and two Housemaids employed at weekly wages.

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

#### I. WORKS AND REPAIRS.

Besides the ordinary expenditure on the repairs and renewals of the numerous buildings in the Society's Gardens in 1891 and the maintenance of the roads and walks, which amounted altogether to the sum of £2416 10s. 4d. against £2578 14s. 5d. in 1890, two small new special works were carried out in 1891. These were the erection of a stall for the sale of photographs, which cost £121 11s. 6d., and the building of a new Sheep-yard, which was erected by the Society's staff of workmen at a cost for materials of £95.

The stall for the sale of photographs was undertaken at the suggestion of several Fellows of the Society, who were of opinion that it would be expedient to give the numerous visitors to the Gardens an opportunity of buying such memorials. It has been let on terms which give a sufficient interest for the sum expended on it, and will therefore be no burden to the Society's finances. It should be remarked that only photographs of animals living in the Society's Gardens, or in other similar institutions, are permitted to be sold in it.

The new Sheep-yard, which has been placed in a vacant space near the Band-stand, has been built to correspond to that near the Lions' house in which the Burrhel Sheep are lodged, for the accommodation of the herd of Barbary Wild Sheep, which seem to thrive in their new quarters.

The principal repairs and improvements carried on during the past year have been as follows:—

The Eland-house has been put into thorough repair. Four new skylights have been made and fixed on the north side, giving a much better light to the interior. The adjacent yards have been repaired and the iron fences painted.

Four of the outer Lions' cages have been scraped, cleaned, and repainted.

The Parrot-house has been thoroughly repaired and painted.

A new and convenient cage has been built outside the Monkey-house for the Tcheli Monkey, which rare animal, the only example of the species ever brought alive to Europe, coming from a cool climate, requires to be kept in the open air.



The interior of the Reptile-house has been thoroughly cleaned and painted.

The Eastern Aviary has been repaired and painted.

A new room has been built for the Keepers at the back of the Wolves' dens.

The roof of the Lecture-room has been put into thorough repair, and new skylights fitted to it.

The Hippopotamus platform has been repaired.

The Band-stand and some of the Refreshment-rooms have been repaired and painted.

## 2. STAFF.

The Staff at the Gardens remains nearly the same as at the last Anniversary, no material alterations having been made in it.

It consists of a Superintendent and Assistant Superintendent, a Head Keeper and twenty-two Keepers, three Money-takers, a Store-keeper, a Prosector's Assistant, and a Head Gardener—altogether 31 persons employed at monthly salaries. Besides these there are 23 Helpers in the Menagerie, 12 Garden-labourers, 8 Artisans, 5 Painters, 11 Labourers, 1 Butcher, 2 Firemen, 2 Night-Watchmen, 1 Time-keeper, 2 Messengers, and 1 Clerk employed at weekly wages; so that the number of the whole staff may be reckoned at about ninety-nine persons.

## 3. VISITORS.

The number of visitors to the Society's Gardens in 1891 was 598,730. The corresponding number in 1890 was 640,987, showing a decrease of 42,257 entrances. A comparison between the different categories into which the visitors are divided is given in the subjoined Table.

*Visitors to the Gardens.*

	1891.	1890.	Comparison.	
Fellows and Friends .....	160,165	173,575	Decr. 13,410	
Paying {	On ordinary days at 1s. each. ....	142,842	142,058	Incr. 784
	On Mondays and other days at 6d. each .....	215,081	243,077	Decr. 27,996
	Children under 12 years at 6d. each .....	45,832	46,342	Decr. 510
School Children (admitted free).....	34,810	35,935	Decr. 1,125	
	598,730	640,987	Decr. 42,257	

The next Table contains a statement of the Number of Visitors to the Society's Gardens in every year, from the year 1828 to the year 1891.

*Number of Visitors to the Gardens, 1828-91.*

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

\* Year of the Great Exhibition.

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

#### 4. PROSECTOR'S DEPARTMENT.

The Prosector (Mr. F. E. Beddard) reports as follows:—

During the year 1891 there were 821 deaths in the Society's Menagerie, being 10 in excess of the number of deaths in 1890: Of these the following were most important:—

The Bald-headed Chimpanzee "Sally," which lived in the Gardens for eight years. A paper dealing with this and the following Ape has been communicated to the Society by the Prosector.

An Orang-Utan, which only lived for five months. This animal was supposed to be an adult representative of the Lesser Bornean Orang (*Simia morio*); it proved, however, on dissection to be a much younger specimen than had been believed; it was probably about five years old at the time of its death.

The African Rhinoceros, which was obtained for the Society in 1868, died apparently from a cancer in the stomach; it was dissected by the Prosector and Dr. Murie, and a paper upon its structure will be shortly communicated to the Society.

A female Giraffe, which had lived in the Society's Gardens for seventeen years.

The remaining deaths of importance were a European Bison, two Lions, one Jaguar, a Snow-Leopard, a Cape Ant-Bear, and a Tasmanian Wolf.

Material has been supplied to Dr. Campbell, Mr. F. G. Parsons, Prof. D'Arcy Thompson, Mr. J. M. Swan, and Dr. Arthur Thomson.

Mr. F. G. Parsons has been carrying on some investigations into the anatomy of the Rodentia in the Prosector's Laboratory, and other anatomists have worked there occasionally.

#### 5. ZOOLOGICAL LECTURES.

The arrangements for the Lectures on zoological subjects for the present year are as follows:—

A course of four Lectures will be delivered in the Lecture-room in the Society's Gardens, Regent's Park, on Thursdays, at 5.30, commencing Thursday, May 26th, by Mr. F. E. Beddard, M.A., Prosector to the Society.  
*Subject: ANTHROPOID APES.*

The Fee for the Course (including admission to the Gardens on the days of Lecture) is 5s. The Course is free to Fellows of the Society. Tickets for it may be obtained from Mr. F. E. Beddard, Zoological Society's Gardens, Regent's Park, N.W.

## 6. MENAGERIE.

### a. Additions to the Menagerie in 1891.

The number of animals belonging to the first three classes of Vertebrates living in the Society's Menagerie at the close of 1891 was 2232. The corresponding number on the 31st of December, 1890, was 2256, as will be seen by the following Table:—

	December 31.		Comparison.
	1891.	1890.	
Quadrupeds.....	630	693	Decr. 63
Birds .....	1,346	1,273	Incr. 73
Reptiles .....	256	290	Decr. 34
	2,232	2,256	Decr. 24

The total number of registered additions to the Menagerie in 1891 was 1173, of which 694 were acquired by presentation, 199 by purchase, 104 were bred in the Gardens, 138 were received on deposit, and 38 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.
1875.	559	557	156	143	43	1458
1876.	533	316	171	172	27	1219
1877.	506	324	181	181	68	1260
1878.	511	272	150	178	71	1182
1879.	550	421	115	124	56	1266
1880.	624	515	148	161	40	1488
1881.	565	310	167	136	35	1213
1882.	772	402	113	111	25	1423
1883.	637	376	128	219	28	1388
1884.	646	524	174	229	133	1706
1885.	762	251	241	135	62	1451
1886.	851	236	171	232	48	1538
1887.	600	176	138	135	86	1135
1888.	572	143	158	216	32	1121
1889.	581	242	118	164	35	1140
1890.	578	215	154	94	23	1064
1891.	694	199	104	138	38	1173

The following is a list of the principal additions made to the Menagerie during the year 1891:—

1. A Yellow-crowned Penguin (*Eudyptes antipodum*), from Stewart Island, New Zealand, presented by Sir Henry Peek, Bart., F.Z.S. This is a scarce species, and we have never received a specimen of it before.

2. A young example of the Ounce or Snow-Leopard (*Felis uncia*), purchased March 6th. The Ounce is the only one of the larger Cats which we have not previously been able to exhibit in the Society's Collection. The specimen, however, unfortunately lived but a short time.

3. A Small-clawed Otter (*Lutra leptonyx*) from India, acquired by purchase March 16th, being the second specimen of this Otter which has been received by the Society.

4. A Lhuys' Impeyan Pheasant (*Lophophorus lhuysi*)—a fine male example of this Pheasant from the mountains of Western China, obtained by Mr. A. G. Pratt during his recent visit to that country, and purchased of him March 18th. This is the first example of the species received alive in Europe.

5. An Orang presented by Commander Ernest Rason, R.N., F.Z.S., who obtained it at Sarawak.

6. A Great-billed Tern (*Phaethusa magnirostris*) obtained by purchase, new to the Collection.

7. A female Water-Buck Antelope (*Cobus ellipsiprymnus*), from British East Africa, presented by George S. Mackenzie, Esq., F.Z.S. This is a very acceptable addition, as making a pair with the male of the same Antelope presented by Mr. Mackenzie in November 1890.

8. Three Blanford's Rats (*Mus blanfordi*) from the Shevaroy Hills, Madras, presented by W. L. Sclater, Esq., F.Z.S. This species is new to the Collection.

9. A Great Black-headed Gull (*Larus ichthyaëtus*), kindly brought to us by Mr. B. T. Finch, C.M.Z.S., on his recent return home from the Persian Gulf. This is the first specimen of this fine bird that we have received alive.

10. Three examples of the Tibetan Crossoptilon (*Crossoptilon tibetanum*), obtained in the Mountains of Szechuen, near Tatsien-lo, by Mr. E. A. Pratt, and purchased of him. These are the first examples of this species imported into Europe.

11. A young female of the Sinaitic Ibex (*Capra sinaitica*), obtained from the Erba Mountains, on the coast of the Red Sea, about 120 miles north of Suakim, and presented to the Society, by Sir James Anderson. The same generous donor had previously presented us with a male example of the same Ibex (P. Z. S. 1889, p. 246), which is doing well in the Gardens, so that the acquisition of a female is doubly welcome.

12. A young Buffon's Skua (*Stercorarius parasiticus*), captured

near Christchurch, Hampshire, and presented by Mr. E. Hart, F.Z.S. This species is new to our list.

13. A Land-Crab (*Geocarcinus ruricola*) from the island of Fernando de Noronha, brought home and presented by Mr. D. Wilson-Barker, F.Z.S.

14. Four Spotted-billed Pelicans (*Pelecanus manillensis*), received from Calcutta. This species, which is new to us, is a close ally of the African *P. rufescens*. When the birds come into full plumage we shall be able to see how far they differ from their African relative.

15. A specimen of the Formosan Fruit-Bat (*Pteropus formosus*), originally described from an example received alive by the Society in January 1873.

b. *List of rare Animals at present living in the Gardens.*

i. MAMMALS.

- \*1 Fossa (*Cryptoprocta ferox*). Purchased, Nov. 12, 1890.
- 1 Long-eared Fox (*Otocyon megalotis*). Presented by E. Aubrey Hart, Esq., Jan. 16, 1892.
- 1 Formosan Fruit-Bat (*Pteropus formosus*). Presented by T. Perkins, Esq., F.Z.S., Dec. 1, 1891.
- \*1 Dorsal Hyrax (*Hyrax dorsalis*). Presented by C. Burney Mitford, Esq., Sept. 3, 1891.
- \*1 Gaur, ♂ (*Bibos gaurus*). Presented by Sir Cecil C. Smith, G.C.M.G., H.M.Z.S., Oct. 23, 1889. From Pahang. See P. Z. S. 1889, p. 447.
- \*1 Speke's Antelope, ♀ (*Tragelaphus spekii*). Presented by James A. Nicolls, Esq., F.Z.S., Oct. 14, 1890. See P. Z. S. 1890, p. 590, pl. xlvii.
- \*1 Water-Buck, ♂ (*Cobus ellipsiprymnus*). Presented by George S. Mackenzie, Esq., F.Z.S., June 30, 1890.
- 1 Water-Buck, ♀ (*Cobus ellipsiprymnus*). Presented by George S. Mackenzie, Esq., F.Z.S., May 26, 1891.
- \*1 Nagor Antelope, ♂ (*Cervicapra redunca*). Presented by Dr. Percy Rendall, F.Z.S., June 23, 1890.
- 2 Beatrix Antelopes, ♂ ♀ (*Oryx beatrix*). Presented by Col. E. C. Ross, C.M.Z.S., May 19, 1890.
- 1 Beatrix Antelope, ♀. Presented by Lt.-Col. Talbot, Feb. 19, 1892.

\* Exhibited for the first time.

- 2 Hartebeests (*Alcelaphus caama*). Purchased, May 5, 1890.
- 1 Thar, ♀ (*Capra jemlaica*). Born in the Menagerie, June 23, 1886.
- 1 Thar, ♀ (*Capra jemlaica*). Born in the Menagerie, July 24, 1888.
- 1 Thar, ♂ (*Capra jemlaica*). Born in the Menagerie, June 26, 1889.
- 1 Thar, ♂ (*Capra jemlaica*). Born in the Menagerie, June 20, 1890.
- 1 Indian Chevrotain, ♂ (*Tragulus meminna*). Presented by Mr. Greenberg, Nov. 11, 1890.
- 1 Stanleyan Chevrotain, ♀ (*Tragulus stanleyanus*). Purchased, Nov. 25, 1889.

## ii. BIRDS.

- \*1 Grey Hypocolius, ♂ (*Hypocolius ampelinus*). Presented by W. D. Cumming, Esq., March 3, 1890. See P. Z. S. 1890, p. 147, pl. xv.
- \*2 Short-winged Tyrants (*Machetornis rixosa*). Purchased, Feb. 15, 1892.
- \*1 Sharpe's Wood-Owl (*Syrnium nuchale*). Purchased, Sept. 24, 1891.
- 1 Milky Eagle-Owl (*Bubo lacteus*). Presented by E. A. Maund, Esq., March 2, 1892. From Mashonaland.
- 1 Vulturine Eagle (*Aquila verreauxi*). Presented by — Marshall, Esq., Jan. 17, 1890.
- \*4 Spotted-billed Pelicans (*Pelecanus manillensis*). Purchased, Nov. 19, 1891.
- \*1 Rough-faced Shag (*Phalacrocorax carunculatus*). Presented by the Earl of Onslow, K.C.M.G., Sept. 21, 1891.
- 1 Rough-faced Shag (*Phalacrocorax carunculatus*). Presented by Capt. Salvin, Nov. 30, 1891.
- \*1 Lhuys' Impeyan, ♂ (*Lophophorus lhuysi*). Purchased, March 18, 1891.
- \*1 Tibetan Crossoptilon, ♀ (*Crossoptilon tibetanum*). Purchased, May 14, 1891.
- 2 Tibetan Crossoptilons, 2 ♂ (*Crossoptilon tibetanum*). Purchased, June 20, 1891.

\* Exhibited for the first time.

\*1 Collarless Pheasant, ♂ (*Phasianus decollatus*). Purchased, June 20, 1891.

3 Great Bustards, 3 ♂ (*Otis tarda*). Purchased, April 11, 1890.

1 Great Bustard, ♀ (*Otis tarda*). Received in exchange, May 30, 1890.

(These Bustards have been kept in the open air since their arrival, in a grass paddock, with a straw shelter. They have passed through two severe winters, without any apparent injury to their health.)

*c. List of Species new to the Collection exhibited during the year 1891.*

The following list contains the specimens exhibited in 1891 which are referable to species not included in the last (eighth) edition of the List of Animals.

i. MAMMALS.

2 a. *Simia morio*, Owen. Lesser Orang-Outang.  
*Hab.* Borneo.

a. Male. Presented by Commander Ernest Rason, R.N., F.Z.S., April 15, 1891. From Sarawak. See P. Z. S. 1891, p. 301.

142 a. *Felis uncia*, Schreber. Snow-Leopard.  
*Hab.* Tibet.

a. Purchased, March 6, 1891. See P. Z. S. 1891, p. 212.

369 a. *Mus blanfordi*, Thomas. Blandford's Rat.  
*Hab.* India.

a. Presented by W. L. Sclater, Esq., F.Z.S., May 30, 1891. From the Shevaroy Hills. See P. Z. S. 1891, p. 326.

425 a. *Hyrax dorsalis*, Fraser. Dorsal Hyrax.  
*Hab.* Sierra Leone.

a. Presented by C. B. Mitford, Esq., Sept. 3, 1891. See P. Z. S. 1891, p. 465.

\* Exhibited for the first time.



## ii. BIRDS.

- 244 a. *Chloris kawarahibi*, Temm. & Schl. Japanese Green Finch.  
*Hab.* Japan.  
*a-c.* Presented by F. E. Blaauw, Esq., C.M.Z.S., Aug. 11, 1891.
- 282 a. *Emberiza ciopsis*, Bp. Bonaparte's Bunting.  
*Hab.* Japan.  
*a.* Purchased, Sept. 8, 1891.
- 406 a. *Calandrella baetica*, Dresser. Andalucian Short-toed Lark.  
*Hab.* Andalucia.  
*a-j.* Deposited, Aug. 13, 1891.
- 571 a. *Platycercus erythropeplus*, Salvad. Red-mantled Parrakeet.  
*Hab.* South Australia.  
*a, b.* Received in exchange, April 19, 1891. See P. Z. S. 1891, p. 129, pl. xii.
- 710 a. *Syrnium nuchale*, Sharpe. Sharpe's Wood-Owl.  
*Hab.* West Africa.  
*a.* Purchased, Sept. 24, 1891.
- 726 a. *Scops semitorques* (Schl.). Half-collared Owl.  
*Hab.* China.  
*a.* Presented by J. de la Touche, Esq., July 10, 1891.
- 863 a. *Pelecanus manillensis*, Gmelin. Spotted-billed Pelican.  
*Hab.* India.  
*a-d.* Purchased, Nov. 19, 1891.

- 872 *a.* *Phalacrocorax carunculatus* (Gm.). Rough-faced Shag.  
*Hab.* New Zealand.  
*a, b.* Presented by the Earl of Onslow, G.C.M.G., Sept. 21, 1891.  
*c.* Presented by Capt. Salvin, Nov. 30, 1891.  
*d.* Deposited, Nov. 30, 1891. See P. Z. S. 1891, p. 465.
- 883 *a.* *Ardea agami*, Gm. Agami Heron.  
*Hab.* Guiana.  
*a.* Presented by Frank Fisher, Esq., Sept. 25, 1891. From Surinam. See P. Z. S. 1891, p. 465.
- 922 *a.* *Platalea alba*, Scop. African Spoonbill.  
*Hab.* Africa.  
*a, b.* Purchased, May 28, 1891.
- 1051 *a.* *Columba trocaz*, Heineken. Madeiran Pigeon.  
*Hab.* Madeira.  
*a.* Deposited, June 3, 1891.  
*b, c.* Deposited, Sept. 19, 1891.
- 1091 *a.* *Peristera cinerea* (Knip et Temm.). Grey Ground-Dove.  
*Hab.* South America.  
*a, b.* Purchased, Oct. 2, 1891.
- 1131 *a.* *Pterocles namaqua*, Gm. Namaqua Sand-Grouse.  
*Hab.* South Africa.  
*a.* Presented by Max Michaelis, Esq., Sept. 19, 1891.
- 1150 *a.* *Francolinus coqui*, Smith. Coqui Francolin.  
*Hab.* South Africa.  
*a-e.* Deposited, Oct. 30, 1891.
- 1185 *a.* *Lophophorus lhuysi*, J. Verr. Lhuys' Impeyan Pheasant.  
*Hab.* Western China.  
*a.* Male. Purchased, March 18, 1891. See P. Z. S. 1891, p. 212.

- 1186 *a.* *Crossoptilon tibetanum*, Hodgs. Tibetan Crossoptilon.  
*Hab.* Western China.  
*a.* Female. Purchased, May 14, 1891.  
*b, c.* Males; *d.* Female. Purchased, June 20, 1891.  
 See P. Z. S. 1891, p. 464.
1190. *Phasianus decollatus*, Swinh. Collarless Pheasant.  
*Hab.* Western China.  
*a.* Male. Purchased, June 20, 1891.
- 1273 *a.* *Turnix nigricollis* (Gm.). Black-necked Hemipode.  
*Hab.* Madagascar.  
*a.* Male; *b.* Female. Purchased, Nov. 20, 1891.
- 1296 *a.* *Porphyrio edwardsi*, Elliot. Milne-Edwards's Porphyrio.  
*Hab.* Cochin-China.  
*a.* Purchased, Jan. 28, 1891.
- 1365 *a.* *Gallinago gallinula* (Linn.). Jack Snipe.  
*Hab.* British Islands.  
*a.* Presented by W. H. St. Quintin, Esq., F.Z.S., Feb. 18, 1891.
- 1381 *a.* *Stercorarius parasiticus* (Linn.). Buffon's Skua.  
*Hab.* Europe.  
*a.* Presented by E. Hart, Esq., F.Z.S., Oct. 21, 1891.  
 Captured on the Hampshire Coast. See P. Z. S. 1891, p. 486.
- 1393 *a.* *Larus ichthyaëtus*, Pall. Great Black-headed Gull.  
*Hab.* Western Asia.  
*a.* Presented by B. T. Finch, Esq., C.M.Z.S., June 5, 1891. From the Persian Gulf. See P. Z. S. 1891, p. 464.

1395 *a.* *Phaëthus magnirostris* (Licht.). Great-billed Tern.

*Hab.* South America.

*a.* Purchased, April 20, 1891. See P. Z. S. 1891, p. 301.

1420 *a.* *Eudyptes antipodum* (Hombr. & Jacq.). Yellow-crowned Penguin.

*Hab.* New Zealand.

*a.* Presented by Sir Henry W. Peek, Bart., F.Z.S., Jan. 23, 1891. See P. Z. S. 1891, p. 121.

### iii. REPTILES.

63 *a.* *Morenia ocellata* (Dum. et Bibr.) Ocellated Ter-  
rapin.

*Hab.* Burmah.

*a-d.* Presented by W. L. Sclater, Esq., F.Z.S., May 30, 1891.

117 *b.* *Lacerta galloti* (Gray). Gallot's Lizard.

*Hab.* Teneriffe.

*a-l.* Presented by E. G. Meade-Waldo, Esq., F.Z.S., June 13, 1891.

152 *a.* *Agama inermis*, Reuss. Defenceless Lizard.

*Hab.* Egypt.

*a.* Presented by Gerald Graham-Clarke, Esq., April 25, 1891.

163 *a.* *Uraniscodon plica* (Merrem). Plica Lizard.

*Hab.* Trinidad.

*a.* Presented by Messrs. R. R. Mole and Fritz Urich, May 21, 1891.

242 *a.* *Coluber boddaerti*, Seetzen. Boddaert's Snake.

*Hab.* St. Vincent, West Indies.

*a.* Presented by Sir Walter F. Hely-Hutchinson, K.C.M.G., Nov. 5, 1891.

251 *a.* *Herpetodryas carinatus* (Linn.). Carinated Snake.  
*Hab.* Trinidad.

*a.* Presented by Messrs. R. R. Mole and Fritz Urich,  
May 21, 1891.

265 *a.* *Dasypeltis scabra* (Linn.). Rough-keeled Snake.  
*Hab.* South Africa.

*a, b.* Presented by Messrs. Herbert M. and Claude  
Beddington, Sept. 15, 1891.

285 *b.* *Elaps occipitalis*, Dum. et Bibr. Occipital Elaps.  
*Hab.* Australia.

*a.* Presented by Mr. E. H. Meek, Sept. 18, 1891.

#### iv. BATRACHIANS.

12 *a.* *Bufo regularis*, Reuss. Square-marked Toad.  
*Hab.* South Africa.

*a.* Presented by the Rev. G. H. R. Fisk, C.M.Z.S.,  
March 17, 1891.

40 *a.* *Amblystoma punctatum* (Linn.). Punctured Salamander.

*Hab.* North America.

*a.* Presented by J. H. Thomson, Esq., Ph.D., C.M.Z.S.,  
Aug. 27, 1891.

#### v. FISHES.

52 *a.* *Thymallus vulgaris*, Nilss. Grayling.  
*Hab.* British fresh waters.

d. *List of Animals bred in the Gardens during  
the year 1891.*

MAMMALS.

- 1 Black Lemur (*Lemur macaco*).
- 1 Black-headed Lemur (*Lemur brunneus*).
- 2 Indian Desert-Foxes (*Canis leucopus*).
- 4 North-African Jackals (*Canis anthus*).
- 2 Collared Fruit-Bats (*Cynonycteris collaris*).
- 1 Chinchilla (*Chinchilla lanigera*).
- 1 Viscacha (*Lagostomus trichodactylus*).
- 1 African Wild Ass (*Equus tæniopus*).
- 1 Burchell's Zebra (*Equus burchelli*).
- 1 American Bison, ♂ (*Bison americanus*).
- 1 Yak (*Poëphagus grunniens*).
- 1 Gayal, ♀ (*Bibos frontalis*).
- 2 Persian Gazelles (*Gazella subgutturosa*).
- 1 Thar (*Capra jemlaica*).
- 2 Burrhel Wild Sheep (*Ovis burrhel*).
- 1 Indian Muntjac, ♀ (*Cervulus muntjac*).
- 1 Red Deer (*Cervus elaphus*).
- 3 Japanese Deer (*Cervus sika*).
- 1 Sambur Deer (*Cervus aristotelis*).
- 2 Molucca Deer (*Cervus moluccensis*).
- 4 Mule Deer (*Cariacus macrotis*).
- 3 Vulpine Phalangers (*Phalangista vulpina*).
- 1 Red Kangaroo (*Macropus rufus*).
- 2 Yellow-footed Rock-Kangaroos, ♂ (*Petrogale xanthopus*).
- 2 Bennett's Wallabies (*Halmaturus bennetti*).
- 1 Derbian Wallaby (*Halmaturus derbianus*).

BIRDS.

- 5 Common Night-Herons (*Nycticorax griseus*).
- 2 Australian Wild Ducks (*Anas superciliosa*).
- 1 Spotted-billed Duck (*Anas pæcilorhyncha*).
- 5 Chilian Pintails (*Dafila spinicauda*).
- 3 Summer Ducks (*Æx sponsa*).
- 7 Mandarin Ducks (*Æx galericulata*).
- 1 Vinaceous Turtle-Dove (*Turtur vinaceus*).
- 2 Partridge Bronze-wing Pigeons (*Geophaps scripta*).
- 2 Impeyan Pheasants (*Lophophorus impeyanus*).

## REPTILES.

- 10 Smooth Snakes (*Coronella lævis*).  
 20 Marbled Newts (*Molge marmorata*).

e. *List of Donors and their Donations for the  
 year 1891.*

- Adams, F. C., Esq.  
 Two Smooth Snakes.
- Aitken, Mr. A.  
 Two Pinche Monkeys.
- Anderson, Sir James.  
 One Sinaitic Ibex.
- Anstruther, Keith, Esq., C.M.Z.S.  
 One Mozambique Monkey, one Garnett's Galago,  
 one Blotched Genet, one Ostrich.
- Armstrong, R., Esq.  
 One Macaque Monkey.
- Arnot, Capt.  
 One Rough Fox, one Golden Agouti, two Spotted  
 Cavies, one West-Indian Rail, three Crested Curas-  
 sows.
- Astley, the Rev. Hubert D., F.Z.S.  
 Two Rock-Thrushes.
- Atkinson, Mrs.  
 Two Brent Geese, one Pintail, two Wigeon, one Com-  
 mon Sheldrake, two Golden Tench, nine Golden Carp.
- Attenborough, Mrs.  
 Two Herring-Gulls.
- Barclay, —, Esq.  
 One European Tree-Frog.
- Barsdorf, A., Esq.  
 One Duyker-Bok.
- Barringer, H., Esq.  
 Two Golden Agoutis.
- Barry, F. T., Esq., M.P.  
 One Common Cormorant.
- Bartlett, J. Seymour, Esq.  
 One Grey Ichneumon.
- Bartlett, Miss E.  
 One Little Grebe.
- Barton, Charles C., Esq.  
 One Laughing Kingfisher.

- Bason, Miss Dolly.  
One Common Paradoxure, two White Pelicans, two  
Barbary Turtle-Doves.
- Bateman, H. S., Esq.  
One Arctic Fox.
- Beckett, the Rev. W. P.  
One Bonnet-Monkey.
- Beddington, Messrs. Herbert and Claude.  
One Rhomb-marked Snake, four Crossed Snakes, one  
Hygian Snake, two Rough-keeled Snakes, two Puff-  
Adders.
- Bellamy, Mr. W.  
One Woodcock.
- Bemmelen, Mr. A. A. van, C.M.Z.S.  
Six Night-Herons.
- Bennett, F. J., Esq.  
One Sooty Mangabey.
- Beresford, Col.  
One Rhesus Monkey.
- Berry, the Rev. A. C.  
One Herring-Gull.
- Betts, Mrs. Frederick.  
Two Common Marmosets.
- Bingham, H. B., Esq., F.Z.S.  
One Black-footed Penguin, one Rock-hopper Pen-  
guin.
- Blaauw, F. E., Esq., C.M.Z.S.  
Three Japanese Green Finches, two Ruddy-headed  
Geese.
- Blagg, E. W. H., Esq.  
Two Turtle-Doves.
- Blake, Sir Henry, K.C.M.G.  
One Ocelot, one Red-tailed Buzzard, one Laughing  
Gull.
- Bloomfield, Col. A.  
One Indian Civet, two Malabar Squirrels.
- Borough, J. S. B., Esq.  
Three Stoats.
- Bosworth, W. J., Esq.  
One Starred Tortoise, two Toque Monkeys.
- Bowen, Mrs.  
One Ring-necked Parrakeet.
- Bowers, Thomas, Esq.  
One Puma.



- Bowes, Mr. H. J.  
One Common Hare.
- Boyle, Edmund R., Esq.  
One Blotched Genet.
- Brass, R. Scott, Esq.  
One Azara's Agouti.
- Bray, Hubert, Esq.  
One Golden Eagle.
- Brown, E. J., Esq.  
One Ring-tailed Coati.
- Burrell, Miss E. B.  
One Passerine Parrakeet.
- Burrows, Thomas F., Esq.  
Forty River Lampreys, three Burbots.
- Caplen, Miss.  
One Slender-billed Cockatoo.
- Capper, Mrs. J. B.  
One Redwing.
- Cardinal, D. E., Esq.  
One Common Otter.
- Carnarvon, The Earl of.  
One White-fronted Capuchin.
- Carver, Sidney H., Esq.  
Two Scorpions.
- Chamberlain, Walter, Esq., F.Z.S.  
One White Stork.
- Chattaway, W., Esq.  
One Mississippi Alligator.
- Chisholm, Miss Corrie.  
One Rhesus Monkey.
- Clark, P., Esq.  
One Black-faced Kangaroo.
- Clark-Ourry, Mrs. K.  
One Rhesus Monkey.
- Clarke, Mrs. Margaret.  
One Moorish Tortoise.
- Cobb, F. E., Esq., C.M.Z.S.  
Two Brazilian Caracaras, one Turkey Buzzard.
- Cooper, Howard L., Esq.  
Six Grayling.
- Cotton, Mrs.  
One Macaque Monkey.
- Cotton, T. A., Esq., F.Z.S.  
Two Herring-Gulls.

- Creagh, C. V., Esq.  
One Common Goat.
- Creaghe, Capt. J. W.  
Two Chinese Geese.
- Crooke, Miss J.  
One Green-cheeked Amazon.
- Curtis, Spencer H., Esq.  
One Coypu.
- Dampier, H. L., Esq., J.P.  
One Sooty Mangabey.
- Davis, Dr.  
One Gannet.
- Demerara Museum.  
One Common Boa.
- Dickson, R., Esq.  
Two Slow Loris, one Javan Fish-Owl.
- Downs, Charles, Esq.  
Two Alligators.
- Drewell, Dr.  
One Red-spotted Lizard.
- Duncan, Miss Phyllis.  
One Brown Capuchin.
- Dundas, Miss Alice.  
One Chattering Lory.
- East and Johnson, Masters.  
Two Slowworms.
- Edwards-Ker, G. C., Esq.  
One Common Otter.
- Elliot, J. B., Esq.  
Two Senegal Touracous, one Madagascar Porphyrio.
- Fallows and Wallace, Messrs.  
One Huanaco.
- Ffinch, B. T., Esq., C.M.Z.S.  
Four Macqueen's Bustards, one Great Black-headed Gull, three Chaplain Crows, one Striped Hyæna.
- Findlay, Capt. C. A., R.N.R.  
One White-faced Tree-Duck.
- Fisher, A. W. S., Esq.  
One Smooth Snake, two Common Snakes.
- Fisher, Frank, Esq.  
One Golden Agouti, one Garden's Night-Heron, one Agami Heron.
- Fisk, The Rev. G. H. R., C.M.Z.S.  
Six Leopard Tortoises, two Radiated Tortoises, nine

Angulated Tortoises, four Areolated Tortoises, three Tuberculated Tortoises, one Galeated Pentonyx, three Purplish Geckos, three Robben Island Snakes, two Hoary Snakes, one Smooth-bellied Snake, one Hygian Snake, three Puff-Adders, three African Cobras, four Smooth Clawed-Frogs, one Square-marked Toad.

Fitzgerald, Mrs.

One Squirrel-like Phalanger.

Fothergill, Clifford D., Esq.

Eight European Tree-Frogs.

Fraser, Mr. Walter.

One Macaque Monkey.

Furber, Herbert, Esq.

One Mountain Ka-Ka.

Gale, E. J., Esq.

One Red-throated Diver.

George, Mr. J. R.

One Grey-breasted Parrakeet.

Gie, J. C., Esq.

Four Common Quails.

Godfrey, Mr. H.

One Rhesus Monkey.

Gosselin, Major N.

One Northern Mocking-bird.

Graham-Clarke, Gerald, Esq.

One Defenceless Lizard.

Gray, John, Esq.

Fifteen Striped Snakes.

Gregory, Mrs.

One Macaque Monkey.

Griffith, Sir Brandford, Bart.

Two Senegal Touracous.

Gunn, Mr. T. E.

Two Little Grebes.

Guppy, R. J. L., Esq., C.M.Z.S.

One West Indian Agouti, one Golden Agouti, two Violet Tanagers, one Red-bellied Squirrel.

Hale, Mrs.

One Grey Parrot.

Hamilton, Capt. J. F. C.

One Macaque Monkey.

Hammond, Mr. J.

One Macaque Monkey.

- Hannaford, W., Esq.  
One Common Frog (White variety).
- Hardcastle, Thomas, Esq.  
One Red-necked Grebe.
- Harris, Mrs.  
One Orange-cheeked Waxbill, one Zebra Waxbill,  
one Nutmeg Finch.
- Harrow, W., Esq.  
One Bonnet-Monkey.
- Hart, Edward, Esq., F.Z.S.  
One Land-Rail, one Buffon's Skua, one Barn-Owl.
- Hastings, Mrs.  
Two Red-beaked Weaver-birds.
- Hatfield, Mrs.  
One Common Rhea.
- Hawes, E. C., Esq.  
Two Azara's Opossums.
- Hawker, Mr. G. F.  
One Grey Ichneumon.
- Hawtayne, G. H., Esq., C.M.Z.S.  
Two Rough Foxes.
- Hay, Capt. Thomas.  
Two Many-zoned Hawks.
- Hay, K. G., Esq.  
One Tawny Eagle.
- Hayley, J. Newton, Esq.  
Two Hawfinches.
- Hellberg, Mr. T.  
One Diamond Snake.
- Hely-Hutchinson, The Hon. Sir W. Francis, K.C.M.G.  
Two Pennsylvanian Buzzards, two Tree-Boas, one  
Boddaert's Snake.
- Heseltine, J. P., Esq., F.Z.S.  
One Malbrouck Monkey.
- Hewetson, H. B., Esq., F.Z.S.  
One Common Barn-Owl.
- Hewitson, Dr.  
One Rhesus Monkey.
- Hill, Miss Kathleen.  
One Sooty Mangabey.
- Hill, Mrs.  
One Green Lizard.
- Hitchman, J., Esq., M.D.  
One Silver Pheasant.

- Hodson, H. C., Esq.  
One Indian Civet.
- Hopkinson, E., Esq.  
One Ring-tailed Coati.
- Hopley, Miss C. C.  
One Pleurodele Newt.
- Houston, R. P., Esq.  
One Common Rhea.
- Howell, Mrs.  
One Small-scaled Mastigure.
- Howker, W., Esq.  
Two Gaimard's Rat-Kangaroos.
- Hudson, R., Esq.  
One Gold Pheasant.
- Hunter, R., Esq.  
Two Common Peafowls.
- Ingram, M. E. C., Esq.  
One Yak.
- Ionides, A. C., Esq.  
One Peregrine Falcon.
- Jamaica Institute, The Board of Governors of the.  
Five West-Indian Agoutis.
- James, H. B., Esq., F.Z.S.  
Two Blue-bearded Jays, one Violaceous Night-Heron,  
two Chilian Sea-Eagles, one Brown Chimango.
- Job, Mr. A.  
One Rhesus Monkey.
- Johnston, J., Esq.  
One Fallow Deer.
- Jones, Mrs. Amy, F.Z.S.  
One Roseate Cockatoo.
- Jukes, —, Esq.  
Six Grayling.
- Jutson, Mr. A. W.  
Two Chipping Squirrels.
- Keswick, —, Esq.  
Two Red-billed Tree-Ducks.
- King, Mr.  
One Tuatera Lizard.
- Kirk, R., Esq.  
One Spotted Cavy.
- Lacàbra, Mrs.  
One White-fronted Amazon.

- Lace, A., Esq.  
One Black-eared Marmoset.
- Latham, Commander W. M., R.N., F.Z.S.  
One Rufous-necked Weaver-bird, two Red-crested Finches.
- Leckie, J. B., Esq.  
One Macaque Monkey.
- Lennard, J. Barrett, Esq.  
One Macaque Monkey.
- Lester, Dr.  
Two Nilotic Crocodiles.
- Le Strange, Hamon, Esq., F.Z.S.  
One Woodcock.
- Llewelyn, R. B., Esq., C.M.G.  
Two Harnessed Antelopes.
- Lidiard, G. E., Esq.  
One Macaque Monkey.
- Lilford, The Lord, F.Z.S.  
One Black Stork, ten Andalucian Short-toed Larks.
- Lindsay, H. E., Esq.  
Two Golden Paradoxures, one Indian Cobra.
- Lindsay, H., Esq.  
One Common Cuckoo.
- Macfarlane, Mr. G. Stevenson.  
One Macaque Monkey.
- McIlwraith, Andrew, Esq., F.Z.S.  
One New-Guinea Dog.
- Mackenzie, G. S., Esq., F.Z.S.  
One Water-Buck Antelope, one Leopard, two Vulturine Guinea-fowls, two Mitred Guinea-fowls.
- Mand, J., Esq.  
One Brown Milvago.
- Mann, A., Esq.  
One Green Monkey.
- Manners, F., Esq.  
One Common Chameleon.
- Marks, V. S., Esq.  
One Cuckoo.
- Marshall, E. Luxmore, Esq.  
One Brown Howler.
- Marshall, Wilfred G., Esq.  
Two Blood-breasted Pigeons.
- Mathews, G. F., Esq., R.N., F.Z.S.  
Three Pintail, one Mandarin Duck.

- Meade-Waldo, E. G., Esq., F.Z.S.  
Twelve Gallot's Lizards, eight Greenish Sand-Skinks,  
one Delaland's Gecko, four Scorpions.
- Meek, Mr. E. H.  
One Occipital Elaps.
- Meldrum, James, Esq., F.Z.S.  
Two Brown Capuchins, one Ocelot, one Coypu, two  
Ring-tailed Coatis, two Cayenne Lapwings, seven  
Burrowing Owls.
- Michaelis, Max, Esq.  
One Silver-backed Fox, one Namaqua Sand-Grouse.
- Mitford, C. B., Esq.  
One Dorsal Hyrax.
- Mole and Ulrich, Messrs.  
One Tree-Boa, one South-American Rat-Snake, one  
Carinated Snake, two Plica Lizards, one Thick-  
necked Tree-Boa, one Marbled Polychrus.
- Moore, Major A. McDonnell.  
One Chimpanzee.
- Morgan, W. A., Esq.  
One Rhesus Monkey.
- Mueller, Sir Ferdinand von, K.C.M.G., F.R.S., C.M.Z.S.  
One Australian Thicknee.
- Munt, J. W., Esq.  
Two Suricates.
- Murray, R. W., Esq.  
Eighteen Grenadier Weaver-birds, nine Black-  
capped Weaver-birds, ten Golden-backed Weaver-  
birds, four Red-bellied Waxbills, three Triangular-  
spotted Pigeons.
- Natural History Society of Toronto.  
Two Water-Vipers, one Water-Rattlesnake.
- Needham, W., Esq.  
One Grey Ichneumon.
- Neville, Hugh, Esq., F.Z.S.  
Two White-bellied Sea-Eagles.
- Newcastle, the Duke of, F.Z.S.  
Four Crested Screamers.
- Newton, Mrs.  
One Malbrouck Monkey.
- Nicholl, Digby S. W., Esq., F.Z.S.  
Two Sparrow-Hawks.
- Nicoll, J. M., Esq.  
One White-fronted Lemur.

- Northcote, St. John, Esq.  
Two Passerine Owls.
- Nussey, Mrs. A. G.  
One Blue-fronted Amazon.
- Ogilby, Capt.  
Two Ravens.
- Ogilvie, Miss E.  
Three Ring-necked Parrakeets.
- Onslow, The Earl of, G.C.M.G.  
One Rough-faced Shag.
- Ord, Miss.  
One Common Cuckoo.
- O'Reilly, N., Esq.  
One Ducorps' Cockatoo, four Californian Quails, two  
Grey Squirrels, one Hudson's Bay Squirrel.
- Pain, W. H. B., Esq.  
Two Common Vipers, one Smooth Snake.
- Palmer, Mrs. Emily.  
One Rhesus Monkey.
- Palmer, E., Esq.  
Two Common Chameleons.
- Pardage, Frederick, Esq.  
Two Sykes's Monkeys.
- Parkinson, E. G., Esq.  
One Two-spotted Paradoxure.
- Parr, Mr. J.  
One Vervet Monkey.
- Partridge, Miss.  
One Lesser Sulphur-crested Cockatoo.
- Peek, Sir Henry W., Bt., F.Z.S.  
One Yellow-crowned Penguin.
- Perkins, Thomas, Esq.  
One Formosan Fruit-Bat.
- Phillips, Thomas E.  
One Tuatera Lizard.
- Philpot, R., Esq.  
One Gannet.
- Pickford, Miss.  
One Vulpine Squirrel.
- Povoleri, Count, F.Z.S.  
One Macaque Monkey, four Restless Cavies.
- Powell, E., Esq.  
One Pig-tailed Monkey.



- Poyser, Edwin J., Esq.  
Eleven Gold Pheasants, two Amherst Pheasants, two  
Silver Pheasants, one Common Pheasant, four  
Ruddy Sheldrakes.
- Quelch, J. J., Esq., C.M.Z.S.  
One Tree-Boa.
- Rason, Commander Ernest, R.N., F.Z.S.  
One Lesser Orang-Outang.
- Reading, Mr. W.  
One American Red Fox.
- Rennie, Mrs.  
One Black-backed Jackal.
- Riviere, Master.  
One Manx Shearwater.
- Robinson, J., Esq.  
One Bonnet-Monkey.
- Rothschild, Baron Ferdinand de.  
One Persian Gazelle.
- St. Quintin, W. H., Esq., F.Z.S.  
One Jack Snipe, one Common Buzzard, one Pine-  
Grosbeak.
- Salvin, Capt.  
One Rough-faced Shag.
- Sams, Mrs. Sutton.  
One Purple-faced Monkey.
- Sargeant, Mr. J.  
One Common Viper.
- Sasse, G. H., Esq.  
One Macaque Monkey.
- Saunders, Capt. S. C.  
One Egyptian Gazelle.
- Slater, W. L., Esq., F.Z.S.  
Three Blanford's Rats, four Ocellated Terrapins.
- Sharland, H. H., Esq., F.Z.S.  
One Patagonian Cavy.
- Sharpe, Mrs. C. G.  
One Diuca Finch, two Gay's Finches, two De Filippi's  
Meadow-Starlings.
- Shepherd, Col. C.  
One Marbled Polecat.
- Small, Master R.  
One Common Cuckoo.
- Smith, B. Michael, Esq., F.Z.S.  
One Sky-Lark, one Shore-Lark, one Goldfinch.

- Smith, Cecil, Esq., F.Z.S.  
Two Bernicle Geese, two Brent Geese, two Pink-footed Geese.
- Smith, Cyril, Esq.  
One Ring-tailed Coati.
- Smith, F. D. Lea-, Esq., F.Z.S.  
One Common Polecat.
- Smith, J. Smalman, Esq.  
One Ring-tailed Coati.
- Smith, Thomas C., Esq.  
One Peregrine Falcon.
- Smithers, Mrs. Arthur.  
Five White-eared Conures.
- Somerville, T. T., Esq.  
Seven Lemmings.
- Spooner, J. D., Esq.  
One Brazilian Caracara.
- Stevenson, Capt. R. C.  
One Vervet Monkey, one White-fronted Lemur.
- Streeter, G. Skelton, Esq.  
One Agile Wallaby.
- Sutherland, the Duchess of.  
One Greater Sulphur-crested Cockatoo.
- Swaysland, Mr. W.  
Four Yellow Wagtails.
- Talmage, J. E., Esq.  
Three Horned Lizards.
- Taylor, Capt.  
One Golden Eagle.
- Taylor, C., Esq.  
One Rough-eyed Cayman.
- Taylor, John H., Esq.  
Two Rhesus Monkeys.
- Teil, R. M. J., Esq.  
One Common Viper.
- Thomson, J. H., Esq., Ph.D., C.M.Z.S.  
One Punctured Salamander.
- Touche, J. de la, Esq.  
One Half-collared Owl.
- Tower, C. J. H., Esq., F.Z.S.  
One Red Deer.
- Trelawny, Miss.  
One Common Marmoset.

- Tunnard, Capt. H. S.  
One Common Fox.
- Vatcher, The Rev. Sidney.  
One Rhesus Monkey, two Macaque Monkeys, one  
Bonnet-Monkey, two Roseate Cockatoos, one Greater  
Sulphur-crested Cockatoo, two Cockateels.
- Wallace, J. C., Esq.  
Two Grey-breasted Parrakeets.
- Warburg, J. C., Esq.  
One Lacertine Snake.
- Warmington, Mrs. H. R.  
One Blue-fronted Amazon.
- Watkins, the Rev. H. G.  
One Barbary Ape.
- Watson, A. D., Esq., R.N.  
One Ring-tailed Coati.
- Watson, J., Esq.  
One Musanga Paradoxure.
- Westlake, Dr. J. Galbraith.  
One Two-spotted Paradoxure.
- Wightman, J., Esq.  
One Chinese Goose.
- Williams, Dr. Arthur.  
One Banded Ichneumon.
- Williams, Alexander, Esq.  
Two Wild Swine.
- Williams, H., Esq.  
One Macaque Monkey.
- Williams, K. A., Esq.  
One Macaque Monkey.
- Williams, Mr. W.  
One Spiny-tailed Mastigure.
- Wilson, D., Esq.  
One Serval.
- Wilson, Julius, Esq.  
One Spotted Eagle-Owl.
- Wilson-Barker, D., Esq., F.Z.S.  
One Land-Crab.
- Wollaston, Messrs. A. F. R. & F. E. R.  
Three Common Vipers.
- Wood, Capt.  
One Common Chameleon.
- Wormald, Edward, Esq., F.Z.S.  
Two Japanese Pheasants.

Wother, Mr. H.

One Macaque Monkey, one Pinche Monkey.

Wright, Miss.

One European Tree-Frog.

Young, J., Esq., F.Z.S.

Three Blackcaps, two Lesser Whitethroats, two Goldfinches, one Marsh-Tit, two Nightingales, two Common Whitethroats.

### *Conclusion.*

In concluding their Report the Council wish to offer their best thanks to the Fellows who have aided them by serving on the Committees of Finance, Audit, and Publication during the past year.

Owing to untoward circumstances the year 1891 has not been quite so successful financially as that which preceded it, and the means for making the Collection of Animals more perfect have consequently been lessened. At the same time progress has been made. The annual payments have been met, and the mortgage-debt has been reduced by the usual sum of £1000 and now only amounts to £4000 upon a freehold house estimated to be worth £25,000.

Although in order to effect this it has been necessary to sell out the Consols purchased in 1890, a considerable portion of the proceeds of this sale was carried over in the balance to the present year, which was more than three hundred pounds in excess of that brought forward in 1891.

Signed (for the Council),

P. L. SCLATER,

*Secretary.*

3 Hanover Square, W., April 29th, 1892.

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

Appointed January 21, 1892.

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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, 1891, respectfully submit to the Society an abstract of the accounts, together with a statement of the Assets and Liabilities at the close of the year.

## RECEIPTS IN 1891.

					£ s. d.		
Balance brought from December 31, 1890 .....					784 19 10		
INCOME.							
		£ s. d.			£ s. d.		
1890	{ Garden Sales .....	64	5	0			
	{ Rent for Refreshment-Rooms .....	58	3	7			
	{ Rent for Freehold Premises.....	89	8	0			
	{ Admission Fees .....	55	0	0			
	{ Subscriptions .....	9	0	0			
	{ Publication Sales .....	96	6	1			
					372	2	8
1891	{ Admissions to Gardens.....	13,708	18	6			
	{ Riding Receipts.....	610	16	8			
	{ Garden Sales .....	389	18	5			
	{ Rent for Refreshment-Rooms .....	676	19	8			
	{ Rent for Freehold Premises.....	149	8	0			
	{ Admission Fees .....	485	0	0			
	{ Compositions .....	810	0	0			
	{ Subscriptions .....	5,599	0	0			
	{ Ivory Tickets .....	40	10	0			
	{ Publication Subscriptions.....	511	7	0			
	{ Publication Sales .....	80	1	9			
	{ Zoological Record Subscriptions.....	134	0	0			
	{ Ditto ditto Sales .....	132	3	9			
	{ Dividends (Consols) .....	20	2	3			
{ Ditto (Davis Fund) .....	74	2	0				
{ Miscellaneous.....	119	9	7				
					23,541	17	7
1892	{ Subscriptions .....	123	0	0			
	{ Publication Subscriptions.....	16	16	0			
					139	16	0
1893	Publication Subscriptions.....				1	1	0
INCOME RECEIVED IN 1891 .....					24,054	17	3
Proceeds of Sale of £1000 Consols .....					948 14 6		
					25,788 11 7		

## PAYMENTS IN 1891.

EXPENDITURE.		£	s.	d.	£	s.	d.
Rent, Rates, Taxes, and Insurance .....	Gardens	1,424	18	8			
Ditto ditto .....	Office	255	16	6			
Salaries and Pensions .....	Gardens	3,576	5	6			
Ditto ditto .....	Office	2,016	0	0			
Provisions .....		3,867	14	3			
Cost and Carriage of Animals .....		974	13	4			
Menagerie Expenses .....		3,445	12	5			
Keepers' Dresses .....		183	18	10			
Works, &c. ....	Gardens	2,612	4	4			
Ditto .....	Office	20	17	6			
Garden Expenses .....		758	11	10			
Advertisements .....		172	1	7			
Band Expenses .....		168	4	6			
House and Office Expenses .....	Gardens	424	7	1			
Ditto ditto .....	Office	719	2	3			
Stationery and Printing (Miscellaneous) .....		387	11	3			
Cost of Publications .....		1,535	15	9			
Cost of Zoological Record .....		420	16	0			
Library Expenses .....		440	13	0			
Returned Subscriptions .....		26	6	0			
Davis Lectures .....		74	2	0			
Law Expenses .....		6	2	6			
Cost of Medals .....		9	17	0			
Interest on Mortgage Debt .....		175	10	0			
EXPENDITURE PAID IN 1891 .....		23,697	2	1	23,697	2	1
Repaid Messrs. Drummond on account of Mortgage Debt .....					1,000	0	0
Cash at the Banker's, December 31, 1891 :—							
General Account .....		£696	0	1			
Petty Cash Account .....		395	9	5			
					1,091	9	6
					25,788	11	7

*Comparison of Receipts in 1891 with 1890.*

<i>Receipts.</i>				
	Income of		Increase.	Decrease.
	1891.	1890.		
	<i>£ s. d.</i>	<i>£ s. d.</i>	<i>£ s. d.</i>	<i>£ s. d.</i>
Admissions to Gardens..	13,708 18 6	14,396 0 6	.....	687 2 0
Elephant and Camel riding receipts .....	610 16 8	724 14 7	.....	113 17 11
Garden Sales .....	454 3 5	349 14 10	104 8 7	.....
Rent for Refreshment-Rooms .....	735 3 3	776 18 7	.....	41 15 4
Rent for Freehold Premises .....	238 16 0	232 10 0	6 6 0	.....
Admission Fees:—				
Past.....	55 0 0	85 0 0	.....	30 0 0
Present .....	485 0 0	460 0 0	25 0 0	.....
Annual Subscriptions:—				
Past.....	9 0 0	33 0 0	.....	24 0 0
Present .....	5,599 0 0	5,730 0 0	.....	131 0 0
Future .....	123 0 0	117 0 0	6 0 0	.....
Compositions .....	810 0 0	840 0 0	.....	30 0 0
Ivory Tickets .....	40 10 0	24 14 0	15 16 0	.....
Publications .....	705 11 10	809 13 11	.....	104 2 1
Zoological Record ....	266 3 9	298 12 9	.....	32 9 0
Dividends and Interest..	94 4 3	92 4 9	1 19 6	.....
Miscellaneous.....	119 9 7	89 13 11	29 15 8	.....
	24,054 17 3	25,059 17 10	189 5 9	1,194 6 4
Decrease .....	1,005 0 7	.....	Ded. Incr.	189 5 9
	25,059 17 10	25,059 17 10	.....	1,005 0 7
Total Receipts in 1891 .....				
<i>£</i> 24,054 17 3				
Total Payments in 1891.....				
23,697 2 1				
Receipts over Payments .....				
357 15 2				
<i>Dr. Cash</i>				
				<i>£ s. d.</i>
To Balance brought from December 31, 1890 .....				784 19 10
To Income received in 1891 ..				24,054 17 3
To Proceeds of Sale of <i>£</i> 1,000 Consols .....				918 14 6
				25,788 11 7



*Comparison of Payments in 1891 with 1890.*

<i>Payments.</i>								
	Expenditure of				Increase.	Decrease.		
	1891.		1890.					
	£	s. d.	£	s. d.				£
Rent, Rates, Taxes, and Insurance .....	1,680	15 2	1,593	8 0	87	7 2	.....	
Salaries and Pensions .....	5,592	5 6	5,659	18 8	.....		67	13 2
Provisions .....	3,867	14 3	3,661	18 1	205	16 2	.....	
Cost and Carriage of Animals .....	974	13 4	636	5 8	338	7 8	.....	
Menagerie Expenses .....	3,445	12 5	3,351	5 2	94	7 3	.....	
Keepers' Dresses .....	183	18 10	174	3 11	9	14 11	.....	
Works, Materials, &c.....	2,633	1 10	2,808	18 11	.....		175	17 1
Garden Expenses .....	758	11 10	790	13 8	.....		32	1 10
Advertisements .....	172	1 7	161	0 4	11	1 3	.....	
Band Expenses .....	168	4 6	207	6 9	.....		39	2 3
House and Office Expenses..	1,143	9 4	1,088	8 6	55	0 10	.....	
Stationery and Printing (Miscellaneous) .....	387	11 3	356	11 3	31	0 0	.....	
Cost of Publications .....	1,535	15 9	1,529	2 10	6	12 11	.....	
Cost of Zoological Record ..	420	16 0	651	13 2	.....		230	17 2
Library Expenses .....	440	13 0	563	15 6	.....		123	2 6
Expenditure of Davis Bequest .....	74	2 0	79	5 0	.....		5	3 0
Interest on Mortgage-debt..	175	10 0	214	10 0	.....		39	0 0
Miscellaneous.....	42	5 6	44	6 0	.....		2	0 6
Increase ..	23,697	2 1	23,572	11 5	839	8 2	714	17 6
	.....		124	10 8	714	17 6	Ded. Decr.	
	23,697	2 1	23,697	2 1	124	10 8	.....	
Ordinary Payments .....	23,350	17 7	23,342	6 11	8	10 8	.....	
Extraordinary ditto .....	346	4 6	230	4 6	116	0 0	.....	
	23,697	2 1	23,572	11 5	124	10 8	.....	

  

<i>Contra</i>	<i>Cr.</i>
By Expenditure paid in the year.....	£ 23,697 2 1
By Repayment of Mortgage-debt .....	1,000 0 0
By Balance carried forward to 1892 .....	1,091 9 6
	25,788 11 7

*Assets and Liabilities of the Society on December 31, 1891.*

ASSETS.

	£	s.	d.
Animals in the Menagerie in the Regent's Park .....	21,812	0	0
Books in the Library at Hanover Square .....	15,202	0	0
Unsold Publications .....	3,596	0	0
Stock of the Zoological Record .....	1,340	0	0
Freehold Premises .....	25,000	0	0
Value of £1,900 London and South-Western Railway New 4 per cent. Preference Stock (Davis Trust Fund) .....	2,413	0	0
Cash at the Bankers (Messrs. Drummond) .....	1,091	9	6
Arrears considered good:—	£	s.	d.
Rent for Refreshment-Rooms ..	68	0	1
Rent for Rooms at Hanover Square .....	41	5	0
Garden Sales .....	91	7	6
Subscriptions .....	51	0	0
Publication Sales .....	139	11	4
Zoological Record Sales .....	8	15	0
			<u>399 18 11</u>
			<u>£70,854 8 5</u>

LIABILITIES.

	£	s.	d.	£	s.	d.
Rent and Taxes unpaid:—						
For the Gardens, say .....	256	2	3			
,, Office, say .....	43	2	6			
				<u>299</u>	<u>4</u>	<u>9</u>
Bills, &c., estimated at:—						
For the Gardens, say .....	527	12	9			
,, Office, say .....	476	18	2			
				<u>1,004</u>	<u>10</u>	<u>11</u>
Messrs. Drummond, Mortgage Debt .....				4,000	0	0
				<u>£5,303</u>	<u>15</u>	<u>8</u>

We have examined the Vouchers and the Accounts of Receipts and Expenditure, and certify that they are correct.

ADAM W. BLACK.  
WALTER CROUCH.  
PHILIP CROWLEY.  
HERBERT DRUCE.  
EDWIN T. NEWTON.  
JOHN T. TAYLOR.  
CHARLES A. WRIGHT.

} *Committee of Auditors.*

ZOOLOGICAL SOCIETY OF LONDON,  
3 *Hanover Square, W.*

*February 25, 1891.*