

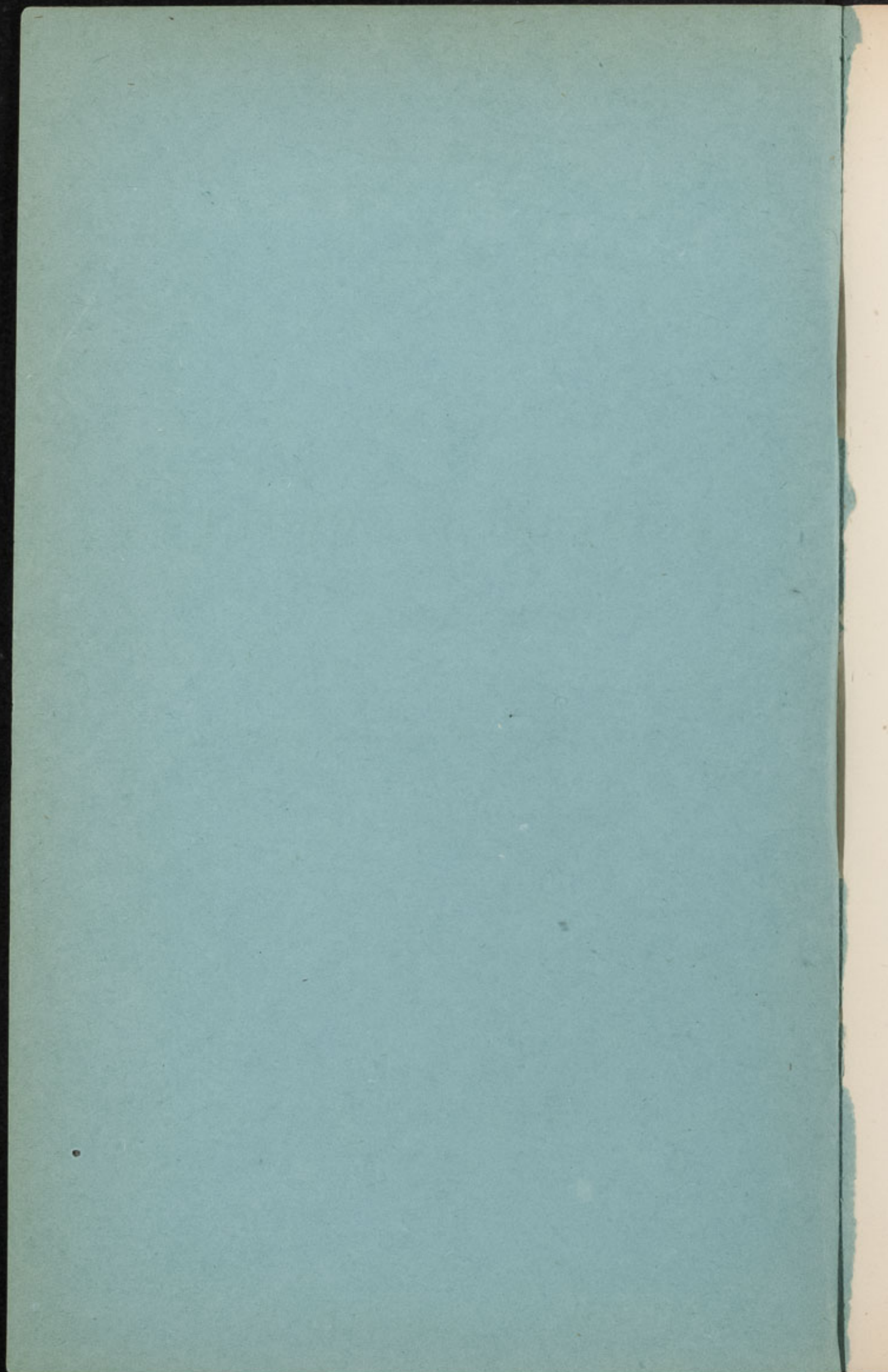
REPORT
OF THE
COUNCIL AND AUDITORS
OF THE
ZOOLOGICAL SOCIETY
OF LONDON,

READ AT THE ANNUAL GENERAL MEETING,

APRIL 29TH, 1870.

LONDON:
PRINTED BY TAYLOR AND FRANCIS,
RED LION COURT, FLEET STREET.

1870.



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REPORT OF THE COUNCIL.

April 29, 1870.

IN accordance with the provisions of the Society's Charter, the Council have now the pleasure of submitting to the approbation of the Fellows assembled in their forty-first Anniversary Meeting the customary Report upon the progress of the Society during the past year.

This, in conformity with former practice, they have divided into three heads, the first of which relates to the general state of the Society, the second to the operations carried on at the office in Hanover Square, and the last to the state of the establishment in the Regent's Park.

I. GENERAL CONDITION OF THE SOCIETY.

1. STATE OF THE ROLL OF MEMBERS.

a. *Fellows and Annual Subscribers.*

The number of Fellows, Fellows Elect, and Annual Subscribers at the close of the year 1869 amounted to 2966. Of these there were—

Compounders who have paid £20	137
Ditto ditto £30	620
Paying annual contributions of £2	139
Ditto ditto £3	1953
Dormant	58
Admission-fees unpaid	24
Compositions remitted	15
Annual Subscribers, paying . £3	20
	<hr/>
	2966

The corresponding number at the close of the year 1868 was 2924; so that an increase of 42 Members took place during the year 1869; and the effective strength of the Society is now greater than it has been at any period since the year 1840, when the total number of Members was 2994.

In the subjoined Table is given a comparative statement of the Elections, Deaths, Resignations, and Removals which have taken place during the past Ten years, together with the number of Fellows and Annual Subscribers at the end of each year:—

Years.	Elected or Re-admitted.	Died.			Resigned.			Removed.			Ceased to be Fellows.	Number of Fellows and Annual Subscribers, December 31.		
		Compounders.		Subscribers.	Subscribers.		Admission Fees Unpaid.	Subscribers.		Admission Fees Unpaid.				
		£20.	£30.	Honorary.	£2.	£3.		£2.	£3.				£2.	£3.
1860.	98	11	4	...	20	22	3	19	2	6	16	...	103	1716
1861.	98	11	7	1	19	21	5	23	2	...	...	...	89	1725
1862.	95	6	1	...	16	24	1	10	1	4	19	7	89	1731
1863.	164	9	4	...	12	23	3	19	2	...	...	8	80	1815
1864.	264	4	8	...	21	22	2	9	...	24	71	...	161	1918
1865.	321	12	5	...	13	23	5	16	2	1	19	...	96	2143
1866.	405	16	11	...	11	28	1	18	1	...	...	3	89	2459
1867.	328	11	9	...	12	25	4	16	...	...	...	8	85	2702
1868.	316	3	9	...	17	33	2	28	...	...	2	...	94	2924
1869.	197	7	7	...	17	37	3	30	1	2	25	26	155	2966

b. *Foreign and Corresponding Members.*

No vacancy occurred in the list of Foreign Members during the year 1869.

The following gentlemen were duly elected Corresponding Members of the Society during the past year, and the total number of members of this class was thus raised to 195 on the 31st of December last:—

Dr. Charles Semper, of Würzburg.

Mr. John Denis Macdonald, Surgeon R.N., F.R.S.

Mr. John Brazier, of Sydney, N. S. W.

Mr. John S. Guy, of Callao, Peru.

Dr. A. Ernst, President of the Society of Physical and Natural Sciences, Caraccas.

Dr. Francis Hilgendorf, Director of the Zoological Gardens of Hamburg.

Mr. Robert B. White, of Medelliu, United States of Columbia.

Ferdinand, Baron Droste, of Hülshoff, Westphalia.
 Capt. Alexander Angus Airlie Kinloch, of the Rifle Brigade.
 Lieut.-Col. Frederick Richard Pollock, Commissioner,
 Peshawur, Punjab, India.

The Council again beg leave to remind the Corresponding Members of the Society of the following important alteration which has been recently made in the Bye-laws relating to them:—

“Corresponding Members of the Society are required to keep the Secretary informed of their addresses, or that of some Agent in London, through whom communications may reach them. The name of any Corresponding Member whose address, or that of his Agent, shall not be known for the space of two years shall be removed from the List, but may be restored again on his application to the Council, on the occasion of the first vacancy that occurs.”

2. STATE OF THE FINANCES.

a. *Income.*

The total Income of the Society received during the year 1869 was £22,768 18s. 4d., being less by the sum of £2,189 8s. 9d. than the corresponding amount for 1868. The subjoined Table gives a comparative statement of the various sources of the Society's Income for the two years, and the amount of increase or decrease under each head.

	Income of		Increase.	Decrease.
	1868.	1869.		
Admission Fees:—	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Past	180 0 0	85 0 0	.....	95 0 0
Present	1,430 5 0	850 0 0	.....	580 5 0
Annual Subscriptions:—				
Past	102 0 0	64 0 0	.....	38 0 0
Present	5,733 18 0	5,852 7 0	118 9 0	
Future	76 0 0	88 0 0	12 0 0	
Compositions	1,410 0 0	630 0 0	.....	780 0 0
Ivory Tickets	83 11 0	79 17 0	.....	3 14 0
Admission to Gardens	12,651 4 0	12,865 4 0	214 0 0	
Garden Sales.....	1,496 10 1	375 19 2	.....	1,120 10 11
Rent for Refreshment-room	780 0 0	780 0 0		
Publications	697 8 5	805 0 8	107 12 3	
Dividends	292 10 0	293 2 6	0 12 6	
Miscellaneous	25 0 7	0 8 0	.....	24 12 7
	24,958 7 1	22,768 18 4	452 13 9	2,642 2 6

In examining these, it is very satisfactory to note that, although there is a considerable falling off under several heads, the main source of the Society's large Income (that of money received from visitors for entrance into the Gardens) not only continues unimpaired, but shows a solid increase of £214 over the previous year. The amount to be realized from "Garden sales" must necessarily vary from year to year, depending as it does upon the quantity of surplus stock to be disposed of, and the possibility of finding purchasers for objects that are not always very easily saleable. The decrease in "Admission fees" and "Compositions" is attributable to the smaller number of new Fellows elected in 1869. It could hardly be expected that the extraordinary increase of candidates for the Fellowship of the Society which has shown itself during the last four or five years could be continued for an unlimited period; but so long as the number of new Members remains in excess of the number of vacancies caused by death, resignation, and removal, the Council see no cause for anxiety on this subject.

To the Income must be added the sum of £2757 10s., being the proceeds of the sale of £3000 worth of Reduced £3 per cents. purchased with surplus Income in former years, the sum of £1000, being the amount of a temporary loan from the Society's Bankers, which has since been paid off, and the sum of £873 12s. 7d., being the balance brought over from the previous year. These additions made a total sum of £27,400 0s. 11d. available for the expenditure of the year 1869.

b. *Expenditure.*

This sum of £27,400 0s. 11d. was disposed of in the following manner. The sum of £19,539 2s. 10d. was required for the ordinary Expenditure of the Society. The sum of £6209 16s. 6d. was devoted to extraordinary Expenditure. After paying the interest and expenses on a temporary loan of £1500 borrowed from the Bankers' and subsequently repaid, this left a balance of £1623 3s. 6d. at the Society's Bankers' on the 31st of December last, which was carried forward for the benefit of the present year's account.

The subjoined Table gives the various items of the

entire expenditure during the year 1869, and a comparison of them with the amounts paid under the corresponding heads in 1868.

	Expenditure of						Increase.	Decrease.		
	1868.			1869.						
	£	s.	d.	£	s.	d.	£	s.	d.	
Arrears of previous year ...	2,838	14	3	2,597	9	3	.....	241	5	0
Rent, Rates, and Taxes.....	753	8	4	684	10	0	.....	68	18	4
Salaries, Wages, and Pensions	4,529	11	1	4,509	17	6	.....	19	13	7
Cost, Carriage, and Keep of Animals	2,521	10	1	1,646	17	11	.....	874	12	2
Provisions	4,107	15	11	4,064	14	10	.....	43	1	1
Menagerie Expenses	1,866	8	10	1,808	7	4	.....	58	1	6
Keepers' Dresses	213	5	9	150	1	6	.....	63	4	3
New Buildings and Works connected	1,991	17	6	5,411	14	11	3,419 17 5			
Other Works, Materials, and Repairs	3,280	9	3	1,633	3	3	.....	1,647	6	0
Garden Expenses	783	8	10	627	12	9	.....	155	16	1
Band Expenses	165	14	6	163	19	0	.....	1	15	6
Advertisements	130	0	6	125	11	6	.....	4	9	0
House and Office Expenses.	467	6	9	498	18	2	31 11 5			
Stationery	68	11	0	64	7	7	.....	4	3	5
Printing (Miscellaneous) ...	286	19	9	286	7	6	.....	0	12	3
Proceedings (including Printing)	1,352	13	7	909	5	5	.....	443	8	2
Transactions, ditto	645	5	1	303	0	4	.....	342	4	9
Library expenses	248	10	8	206	10	9	.....	41	19	11
Law expenses				7	19	4	7 19 4			
Cost of Silver Medal				4	3	6	4 3 6			
Returned Subscriptions ...	61	12	0	44	7	0	.....	17	5	0
	26,313	3	8	25,748	19	4	3,463 11 8	4,027	16	0
Decrease .....	.....			564	4	4	Ded. Incr....	3,463	11	8
	26,313	3	8	26,313	3	8	.....	564	4	4
Ordinary Expenditure.....	22,381	9	7	19,539	2	10	.....	2,842	6	9
Extraordinary ditto	3,931	14	1	6,209	16	6	2,278 2 5	2,278	2	5
	26,313	3	8	25,748	19	4	.....	564	4	4

As regards the ordinary expenditure of the Society, under which head is placed every item necessary for keeping the whole establishment in a thorough state of efficiency, the Council have the satisfaction of pointing out that a very considerable decrease (amounting altogether to £2842 6s. 9d.) was established under this head in the

year 1869. This was effected partly by the carrying out of several judicious reforms in the Garden establishment, and partly by restricting the amount usually devoted to the purchase of new animals, the Gardens at the close of the year 1868 having been in some respects rather inconveniently over-crowded. The large expenditure of the past year was therefore entirely attributable to "extraordinary expenditure," of which the following is a summary:—

Extraordinary Expenditure paid in 1869.

	£	s.	d.
I. New Buildings in the Gardens.			
(1) New refreshment-room	3221	17	11
(2) New Elephant-house	2477	3	6
(3) New Gazelle-sheds	385	13	1
(4) Burning ballast for above new works	100	12	0
II. Other extraordinary items.			
(1) Falkland Islands' Company	19	0	0
(2) New books for keepers' library	5	10	0
	£6209 16 6		

It will be observed that nearly the whole of this sum was devoted to permanent new buildings in the Society's Garden establishment, concerning which full explanations are given in a subsequent section of the Report.

c. Reserve Fund.

The Society's Reserve Fund consists of a sum of £7000 3 per Cents. Reduced, £3000 of the original amount of £10,000 having been sold out to assist in meeting the expenditure of the year on new buildings, as already mentioned. At the same time, the Council may point out that this amount is at the present moment producing £6 per cent. instead of £3 per cent., the tenant of the refreshment-rooms having undertaken to pay an additional rent for the new refreshment-building, equal in amount to £6 per cent. upon the outlay caused by its erection,

d. *Assets and Liabilities.*

The Cash Assets of the Society on the 31st of December 1869 amounted to—

	£	s.	d.	£	s.	d.
Cash at the Bankers'	1623	3	6			
Cost of 7000 Reduced 3 per Cents.	6599	14	4			
	<hr/>			8222	17	10

The sums due to the Society for arrears on the 31st of December 1869 were estimated as follows:—

Annual Subscriptions	474	0	0			
Ivory Tickets	16	16	0			
Publications	206	18	9			
Garden Sales	681	12	0			
	<hr/>			1379	6	9
				<hr/>	<hr/>	<hr/>
				9602	4	7

The Liabilities at the same period were estimated at 4187 5 9

Leaving a Balance in favour of the Society of 5414 18 10

II. OFFICE, 11 HANOVER SQUARE.

1. SCIENTIFIC MEETINGS.

The Scientific Meetings were regularly held at the Society's rooms in Hanover Square, on the usual Thursday evenings, during the year 1869. No less than 160 different communications on various zoological subjects were made to these meetings during the year: 98 of these were from Fellows, 3 from Foreign Members, and 35 from Corresponding Members of the Society. The remaining 24 papers were from individuals not belonging to the Society, and were communicated to it by the Secretary or by other Members. The total number of communications in the year 1868 was 129.

After the close of the present Session, the Council have determined, in accordance with a recommendation from the Committee of Publication (to whom the general management of the Scientific Meetings is intrusted), to revert to their former practice of meeting on Tuesday evenings

at 9 P.M. instead of Thursdays, it having been found that Thursday is an inconvenient day to many Fellows who are habitual attendants at these Meetings, on account of the Meetings of the Royal Society taking place on that evening.

Commencing therefore from November next, the Scientific Meetings of this Society will take place on the second and fourth Tuesdays in the month, at 9 P.M.

2. SCIENTIFIC PUBLICATIONS.

The third and last part of the volume of 'Proceedings for 1869' was published about a fortnight ago, and has been already issued to most of the Subscribers. The whole volume for 1869 contains 698 pages, and is illustrated by 50 (mostly coloured) plates and a large number of woodcuts.

The following Parts of the Society's 'Transactions' were issued during the year 1869:—

VOL. VI. PART VIII.

(Concluding the volume.)

On *Dinornis* (Part XI.), containing a Description of the Integument of the Sole and Tendons of a Toe of the Foot of *Dinornis robustus*, Owen. By Professor Owen, F.R.S., F.Z.S., &c. With one plate.

On *Dinornis* (Part XII.), containing a Description of the Femur, Tibia, and Metatarsus of *Dinornis maximus*, Owen. By Professor Owen, F.R.S., F.Z.S., &c. With two plates.

On the Osteology of the Kagu (*Rhinochetus jubatus*). By W. K. Parker, F.R.S., F.Z.S. With two plates.

VOL. VII. PART I.

On the Anatomy of the Lemuroidea. By James Murie, M.D., F.G.S., Prosector to the Zoological Society, and St. George Mivart, F.L.S., F.Z.S., Lecturer on Comparative Anatomy at St. Mary's Hospital. With six plates.

The Publications of the year are delivered to such Members of the Society as pay the subscription of £1 1s. for that purpose. They consist of three parts of 'Proceedings,' in 8vo, illustrated by about 45 Plates, mostly coloured; and

of one or more parts of 'Transactions,' in 4to, with from 10 to 15 Plates. The ordinary prices at which these volumes are sold to the public amounts generally to upwards of Four Pounds in each year.

The publications cannot be sent out by post, but are delivered to Subscribers free of expense at any address within the metropolitan districts.

3. LIBRARY.

During the past year the Library of the Society, under the superintendence of Mr. R. B. Sharpe, especially appointed to this post in 1867, has been kept in good order, and has been resorted to by a considerable number of working zoologists, besides furnishing the means for the determination of the correct names of the animals in the Society's Gardens.

The Catalogue has been revised, the shelves renumbered, and the press-marks added to each volume in the Library.

Besides the purchased additions, the Society's Library has received, since the last Anniversary, Transactions and Proceedings from the following Institutions :—

ENGLAND.

- The Royal Society, London.
- The Linnean Society, London.
- The Royal Geographical Society, London.
- The Geological Society, London.
- The Royal Institution of Great Britain.
- The Royal Horticultural Society, London.
- The Royal United Service Institution.
- The Society of Arts.
- The Royal Asiatic Society of Great Britain.
- The Royal Agricultural Society of Great Britain.
- The Royal College of Physicians, London.
- The Pharmaceutical Society.
- The Entomological Society, London.
- The Royal Society of Literature.
- The Quekett Microscopical Club.
- The Plymouth Institution.
- The Royal Institution of Cornwall.
- The Literary and Philosophical Society of Leeds.

The Natural-History Society of Northumberland, Durham, and Newcastle-upon-Tyne.

The Literary and Philosophical Society of Manchester.

SCOTLAND.

The Royal Society of Edinburgh.

The Royal Physical Society of Edinburgh.

IRELAND.

The Royal Dublin Society.

The Royal Geological Society of Ireland.

EAST INDIES.

The Asiatic Society of Bengal.

The Asiatic Society of Bengal—North-China Branch.

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

AUSTRALIA.

The New-Zealand Institute.

MAURITIUS.

The Royal Society of Arts and Sciences.

AMERICA.

The American Philosophical Society, Philadelphia.

The Franklin Institute, Philadelphia.

The Entomological Society of Philadelphia.

The Academy of Natural Sciences, Philadelphia.

The Smithsonian Institution, Washington.

The American Academy of Arts and Sciences, Boston.

The Lyceum of Natural History, New York.

The Boston Society of Natural History.

The Essex Institute, Salem, Mass.

The California Academy of Science.

The Harvard College, Cambridge, Mass.

The Peabody Academy of Sciences, Salem, Mass.

The Portland Society of Natural History.

CANADA.

The Natural-History Society of Montreal, Nova Scotia.

The Nova-Scotia Institute of Natural Science, Halifax.

SOUTH AMERICA.

The Society of Physical and Natural Sciences, Caraccas.

FRANCE.

The Imperial Zoological Society of Acclimatation, Paris.

The Entomological Society of France.

The Imperial Agricultural Society, Lyon.

RUSSIA.

The Imperial Academy of Sciences of St. Petersburg.

The Imperial Society of Naturalists of Moscow.

The Entomological Society of Russia, St. Petersburg.

SCANDINAVIA.

The Royal Swedish Academy of Sciences, Stockholm.

The Natural-History Society of Copenhagen.

The Royal Danish Society of Sciences, Copenhagen.

The Royal Norwegian University, Christiania.

The Finnish Society of Sciences.

The Royal Society of Sciences, Upsala.

SWITZERLAND.

The Natural-History Society, Bern.

The Swiss Natural-History Society, Einsiedeln.

The Natural-History Society, Basel.

The Physical and Natural-History Society, Geneva.

The Natural-History Society, Zurich.

The Society of Natural Sciences, Neuchâtel.

BELGIUM.

The Royal Academy of Belgium.

ITALY.

The Royal Lombardian Institute of Science and Literature, Milan.

The Royal Academy of Sciences, Turin.

The Italian Society of Natural Sciences, Milan.

PORTUGAL.

The Royal Academy of Sciences, Lisbon.

HOLLAND.

The Royal Zoological Society, Amsterdam.

The Dutch Society of Sciences, Haarlem.
The Entomological Society of the Netherlands.

GERMANY.

The Royal Bavarian Academy of Sciences, Munich.
The Royal Academy of Sciences of Berlin.
The Society of the Friends of Natural History, Berlin.
The Zoological Society of Frankfort-on-the-Main.
The Imperial Academy of Sciences, Vienna.
The Zoological and Botanical Society of Vienna.
The University and Royal Society of Sciences, Göttingen.
The Natural-History Society, Halle.
The Natural-History Society of Freiburg.
The Medical and Natural-History Society of Jena.
The Natural-History Society of Würtemberg.
The Natural-History Society, Altenberg.

Donations of Works, Memoirs, and Papers have also been received from:—M. Alphonse Milne-Edwards; Professor J. V. Barboza du Bocage; Professor J. D. Dana; Dr. Ernst Haeckel; Robert Brown, Esq.; Dr. Burmeister; Professor A. Malm; A. R. Wallace, Esq., F.Z.S.; M. Ad. Quetelet; MM. Crosse and Fisher; Dr. F. Troschel; Don Felipe Poey; George W. Tryon, jun., Esq.; Professor Newton, F.Z.S.; Isaac Lea, Esq.; E. Newman, Esq., F.Z.S.; Thomas Oldham, Esq.; Dr. A. D. Meyer; T. C. Eyton, Esq., F.Z.S.; Rev. S. Haughton; Herr A. Steen; W. T. Blanford, Esq., C.M.Z.S.; Herr Ch. F. Lütken; Baron Ferdinand von Droste, C.M.Z.S.; M. Alf. P. de Borre; Messrs. G. and H. Neville; M. Jules Verreaux; M. Bocourt; W. von Nathusius; Robert Swinhoe, Esq., F.Z.S.; S. R. Roberts, Esq.; Dr. A. Ernst; R. V. Tyson, Esq.; the Trustees of the British Museum; the Treasury Department, Washington; the Regents of the New-York State Library and the United-States Agricultural Department; the Science and Art Department, South Kensington; the East-India Association; the U.S. Sanitary Commission; the German Ornithologists' Society; and the Public Free Library Committee, Manchester.

III. GARDENS, REGENT'S PARK.

1. EXTENSION OF THE GARDENS.

For many years the Council have not ceased to urge upon the Commissioners of Works the pressing necessity for some extension of the Society's Gardens, in order to afford space for the better accommodation of their large and ever increasing collection of living animals. The Council have not failed to point out to the First Commissioner that in keeping up this collection at an expenditure of about £20,000 a year, and in a manner that is on all hands admitted to be unrivalled, the Society were performing a function that in most civilized countries is either undertaken by the State, or materially assisted by grants from the national purse.

The Council, however, regret to say that they have not hitherto succeeded in overcoming various objections made by the Commissioners of Works to their request, except so far as to have obtained permission to re-enter into occupation of the piece of ground on the north side of the Regent's Park Canal, immediately opposite to the Society's Gardens. This piece of ground was formerly tenanted by the Society at a yearly rental of £20 7s. 8d.; and its occupancy has now been resumed by the Society from Michaelmas last upon the same terms. The Council propose to build a bridge across the Canal, immediately opposite the present exit-gate, in order to connect this piece of land with the present Gardens, and to open a new entrance-gate upon the Primrose-hill road, which will have the advantage of being on a public highway, and will, as the Council believe, be of great accommodation to the numerous visitors to the Gardens from the north and east of the metropolis.

2. BUILDINGS AND WORKS.

The sum of £1850 14s. 4d. was expended on ordinary repairs and renewals in the Society's Gardens during the year 1869, and was sufficient to keep the existing buildings and yards in a satisfactory condition. Besides this a sum of nearly £6200, which, as already mentioned, has been charged to Extraordinary Expenditure, was devoted to the following special works:—the new Elephant-house, the new Refreshment-room, and the new Gazelle-sheds.

i. *New Elephant-house.*

The circumstances under which this important building was undertaken were fully explained to the Fellows in the last Anniversary Report. The main building was completed by the contractors and delivered to the Society in April last; but various necessary fittings and other small additions occasioned some further delay, so that the animals for the reception of which it was intended were not finally settled in their new quarters until late in the summer. The Elephant-house as now arranged is divided into eight compartments, which give excellent accommodation for the following animals:—

1. Male African Elephant.
2. Female ditto.
3. Male Indian Elephant.
4. Female ditto.
5. Male Indian Rhinoceros.
6. Female ditto.
7. Male African Rhinoceros.
8. Male American Tapir.

This is, as the Council believe, by far the finest and most nearly complete series of the larger living representatives of the Cuvierian order of Pachyderms that has ever been brought together in Europe.

The new Elephant-house likewise contains in the upper story four good keepers-rooms, and excellent lofts for the forage and other provisions required for the animals.

The total cost of the new building, together with that of the necessary rearrangement of the surrounding grounds, and of the embankment and terrace-walk in front, has amounted, up to the close of last year, to £4047 16s. 3d. Of this, £1570 12s. 9d. was paid in 1868 and £2477 3s. 6d. in 1869.

The remaining cost of the building and terrace-walk (amounting to upwards of £1100) has been paid since the commencement of the current year, and will be charged to the Extraordinary Expenditure of 1870.

ii. *New Refreshment-room.*

The existing accommodation for the sale of Refreshments in the Society's Gardens being found to be wholly inadequate to the growing demands of the public for this kind of accom-

modation, the Council determined in the autumn of 1868 to build an additional large room for the use of visitors who require luncheons and dinners, and at the same time to provide new kitchens, larders, and other working accommodation, which was also a matter of pressing necessity in order that the refreshments might be supplied in a satisfactory manner. The Council were further encouraged to adopt this course from the fact of the lessee of the Refreshment-department offering to pay an additional rent equivalent to 6 per cent. upon the outlay thus occasioned. Under these circumstances the new dining-room and the kitchens and cellars underneath were built in the course of last year from plans prepared by Mr. Anthony Salvin, Junior, the Society's Architect. The total cost of this building, together with the necessary fittings and cooking-apparatus, paid during the year 1869 was £3221 17s. 11d. A further additional sum of £125 4s. 2d. has since been paid, raising the total cost of these works to £3400. Upon this the lessee of the building has agreed to pay an additional rent of £17 a month, or £204 per annum, commencing from the 1st of January last. Part of the money thus expended was, as already mentioned, raised by the sale of £3000 Reduced 3 per cents. belonging to the Society's Reserve fund; but as the Income thus lost amounts to only £90 a year, the Council believe that this undertaking may be regarded as having resulted in a very profitable investment of the Society's funds.

iii. *New Gazelle-sheds.*

The old wooden sheds immediately adjoining the Hippopotamus-house, which were in a very bad state of repair, were removed in the autumn of 1868. The opportunity was taken of widening the passage between them and the Hippopotamus-house, which was very narrow; and the sheds were rebuilt in a substantial manner, at right angles to their former position, at a total cost of £385 13s. 1d.

They have been since fitted up with hot-water warming-apparatus by Messrs. Weeks, and now form a very convenient row of houses for the smaller and more delicate Antelopes (such as Gazelles), for which there was previously no good accommodation in the Society's Gardens.

The nature of the principal works executed during the

past year having been explained, the Council think it may interest the Fellows to hear what, in the opinion of the Council, still remains to be done in order to bring the Garden-establishment into a state of thorough efficiency.

After the completion of the yards and ponds of the new Elephant-house, and the removal of the old Elephant-house (which works are now in progress), the Council are of opinion that the most important buildings still remaining to be executed may be arranged in the following order:—

(1) The erection of a Bridge across the Regent's Park Canal, and of new Entrance-Lodges on the Primrose-hill Road. The land on the north side of the canal has been in the Society's occupation since Michaelmas last, but cannot be rendered available for any useful purpose until these works be completed. It has been resolved, therefore, that these shall be the first proceeded with, after the completion of the works now in progress.

(2) The erection of a new Fish-house. The present Fish-house (built in 1852) was the first building for the exhibition of Fishes and other animals living in water ever erected. It was built at a date when the necessary conditions for preserving animal life in aquaria were very imperfectly understood. Since that period many other similar buildings have been erected at various Gardens on the Continent, of larger dimensions and on much improved principles, such as the Fish-houses in the Jardin d'Acclimation at Paris, and in the Zoological Garden of Hamburg, and the Aquarium-house at Hanover. It is not possible to alter the present Fish-house so as to make it thoroughly effective, the whole system of construction being radically wrong; and the Council have resolved, therefore, to erect a new Fish-house in the south-east corner of the Gardens, on the ground lately occupied by the Reservoir, where there is ample space for the purpose. The present Fish-house may then be devoted to some other purpose, for which there will be no difficulty in adapting it.

(3) The erection of a new Cats-house or House for Lions, Tigers, and other larger Felidæ. Plans for this proposed New Building have been already prepared by the Society's Architect, and the sanction of the Board of Works obtained for its erection.

3. VISITORS.

The total number of visitors to the Gardens in the year

1869 was 572,848, being only 338 less than in the very successful year 1868. They are divisible as follows:—

	1868.	1869.	Comparison.	
Fellows and Friends	167,923	168,062	Incr. 139	
Paying {	On ordinary days at 1s. each	113,894	123,321	Incr. 9,427
	On Mondays and other days at 6d. each	247,514	232,721	Decr. 14,793
	Children under 12 years at 6d. each	30,746	35,245	Incr. 4,499
Charity Children and others having free admission	13,109	13,499	Incr. 390	
	573,186	572,848	Decr. 338	

The following Table gives the number of visitors to the Society's Gardens in each year since they were first opened. It will be observed that there were a greater number of entrances in 1869 than in any of the preceding years, except 1868 and the two Exhibition years 1851 and 1862.

Statement of the Number of Visitors to the Society's Gardens during each Year, from the Year 1828 to the Year 1869.

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

4. MENAGERIE.

The number of animals living in the Society's Menagerie has not varied greatly during the past year. The following Table shows the corresponding numbers at the close of the last five years:—

	December 31.				
	1865.	1866.	1867.	1868.	1869.
Quadrupeds.....	490	535	531	616	598
Birds	1365	1305	1320	1220	1245
Reptiles	101	173	159	134	170
	1956	2013	2010	1970	2013

There have, however, been many remarkable additions made to the collection during the year 1869, as the following list of the principal novelties will show:—

1. A Black Ape (*Cynopithecus niger*), purchased January 1st, being an example of a form of a Monkey that had long been unrepresented in the Society's collection.

2. A young specimen of the two-wattled Cassowary (*Casuarus bicarunculatus*), purchased January 13th from the Zoological Society of Rotterdam. This Cassowary was originally described in 1860 from a specimen living in the Society's collection. The original specimen subsequently died, and is now in the British Museum. As in the former example, the present bird is in the immature brown plumage, but is nevertheless of great interest, as serving to confirm the validity of this species.

3. An American Badger (*Taxidea americana*), purchased January 23rd, and believed to be the first living example of this species exhibited in the Society's Menagerie.

4. A Fennec Fox, captured at Mount Sinai by the members of the Sinai Survey Expedition, and presented to the Society on the 19th of February. This animal is obviously distinct from the true Fennec (*Canis cerdo*, Gm.), and appears to be referable to the species described and figured by Rüppell as *Canis famelicus* (Atlas, p. 15, t. 5).

5. A Senegal Coucal (*Centropus senegalensis*) from West Africa, being the first specimen of this bird exhibited in the Society's collection. It was purchased March 8th.

6. Three Menopomas (*Menopoma alleghaniense*) from the Alleghany river, U. S. A., presented by the Trustees of

the Smithsonian Institution, U. S. A. (March 9th), and believed to be the first examples of this singular Batrachian brought alive to this country.

7. A young Yaguarundi Cat (*Felis yaguarundi*) from Panama, presented by Capt. G. E. Bird, of the Royal Mail S.S. Co.'s service.

8. A female Musk (*Moschus moschiferus*), presented by Major F. R. Pollock, Commissioner at Peshawur, and most carefully conveyed to this country by Lieut. C. H. T. Marshall, F.Z.S., from whom it was received March 31st. This animal was captured in June 1867, in the Hills of Cashmere, by Major Delmé Radcliffe of the 88th Regiment, who brought it when quite a kid to Peshawur. It is believed to have been the only Musk ever brought to Europe alive.

9. A Cape Eared Owl (*Otus capensis*, Smith, Ill. Zool. S. Afr. t. lxxvii.), captured in Southern Spain by Major Irby, and deposited in the Society's Gardens by Lord Lilford, F.Z.S., April 5th. In reference to this bird, it may be remarked that, although its occasional occurrence upon the southern coast of Spain has been mentioned some years ago, there is not any previous authentic record of a specimen of it having been obtained in Europe.

10. An Ælian's Wart-hog (*Phacochoerus aliani*), captured near Zoulla, on the coast-district of the Red Sea, and brought to England in one of the transports engaged on the Abyssinian Expedition, April 15th.

11. Five Greenland Seals (*Phoca grænländica*) which were brought from the north by one of the sealing-vessels into Peterhead, and purchased for the Menagerie on the 6th and 11th of May. This species of Seal has not been previously exhibited in the Society's Menagerie, and presents several interesting points of difference when compared with its allies. In particular it is noticeable for the use of its fore limbs in locomotion, instead of progressing by the action of the muscles of the belly as is the case with *Phoca vitulina* and *Phoca fætida*.

On the 18th of May two additional specimens of the same species were brought home in one of the Hudson's Bay Company's ships, and presented to the Society by Sir C. M. Lampson, Bart., F.Z.S.

12. A Golden-headed Marmoset (*Hapale chrysomelas*), from Brazil, purchased May 14th, and believed to be the

first example of this scarce species ever exhibited in the Society's collection.

13. Two specimens of the Aard-wolf, of South Africa (*Proteles lalandii*), brought home by Captain Dixon on the 20th May, and purchased for the Menagerie.

14. A fine example of the Vulturine Eagle (*Aquila vulturina*), brought home by Captain Dixon on behalf of Mr. E. Layard, F.Z.S., by whom it has been presented to the Society's Menagerie. The only example of this Eagle previously exhibited is believed to be the one acquired at the sale of Lord Derby's Knowsley collection in 1851.

15. An example of the Panda (*Ailurus fulgens*), presented by Dr. H. Simpson, May 22nd, being one of three specimens obtained in the neighbourhood of Darjeeling. Two of the animals of this species, with which Dr. Simpson had started from Calcutta, unfortunately died upon the voyage; the third reached the Gardens in a very exhausted state, but gradually recovered and attained fine condition.

16. A specimen of the West-Indian Brown Pelican (*Pelecanus fuscus*), in immature plumage, presented by Captain Dow, F.Z.S., of the Royal Pacific Steamship Company's ship 'Costa Rica,' and received May 30th. This bird was captured by Captain Dow on Pedro Gonzalez Island, one of the group of Pearl Islands in the Bay of Panama, on the 4th of May.

17. Two Double-striped Thick-knees (*Ædicnemus bistriatus*), from Central America, presented by George Dawson Rowley, Esq., F.Z.S., June 3rd, being the first examples of this interesting species of Plover ever exhibited in the Society's Gardens.

18. A Red-bellied Monkey (*Cercopithecus erythrogaster*) acquired by purchase on the 8th June, and believed to be the second known individual of this rare species, which was originally described by Dr. Gray from a specimen living in the Society's Menagerie.

19. A New-Caledonian Rail (*Ocydromus lafresnayanus*), presented to the Society by Dr. George Bennett, F.Z.S., of Sydney, and received by the 'Paramatta' on the 10th inst.

This very interesting bird, which was sent to Dr. Bennett from New Caledonia, is little known in European collections, and has never been previously received alive. It is allied to the Weka Rail (*Ocydromus novæ-zeelandiæ*), but quite distinct.

20. A Cape Ant-Bear (*Orycteropus capensis*), purchased on the 18th of June for £150, and believed to be the first specimen of this singular Edentate ever brought to Europe alive. This animal was purchased at Port Elizabeth, Algoa Bay, and brought to this country by a Captain of one of the Union Steamship Company's vessels. It feeds well, principally on raw meat pounded small, in the same manner as the American Ant-eaters (*Myrmecophaga jubata*), two specimens of which, obtained in October and November 1867, are still living in good health in the Society's Menagerie.

21. A Guacharo, or Oil-bird (*Steatornis caripensis*), taken from one of the caves inhabited by these birds in Trinidad, and presented to the Society by the Hon. Arthur Gordon, C.M.Z.S., Governor of the island (received June 29th). Mr. Gordon started from Trinidad with six of these singular birds alive; but five of them died upon the passage, and the present specimen only survived a few days after reaching the Society's Gardens. Enough has been done, however, to show that it is quite possible, with care and precaution, to bring the Guacharo alive to this country.

22. A specimen of the Kusimanse, or Mangué (*Crossarchus obscurus*), purchased July 8th, a rare West-African Carnivore, which has not been exhibited in the Society's Menagerie since the year 1834.

23. Six Amherst's Pheasants (*Thaumalea amherstiae*), deposited by Mr. J. J. Stone, F.Z.S., July 16th.

After many unavailing efforts, Mr. Stone has succeeded in adding this magnificent Pheasant to the list of introduced species. Unfortunately, only one female survived to reach this country—the rest being males, adult or in change of plumage. This sex of the Amherst's Pheasant was previously unknown, but turns out, as might have been anticipated, to resemble nearly the corresponding sex in the Gold Pheasant (*Thaumalea picta*).

24. An Owen's Apteryx (*Apteryx oweni*), presented by the Acclimatization Society of Otago, New Zealand, July 28th, being the first example of this species received alive in Europe.

25. A white-bellied Stork (*Ciconia abdimii*), obtained by purchase July 29th, being the first example of this rare species exhibited in the Society's Menagerie.

26. A young pair of the recently discovered Long-tailed

Deer of Northern China (*Elaphurus davidianus*), presented to the Society by H.E. Sir Rutherford Alcock, K.C.B., H.B.M. Ambassador at the Court of Peking.

27. A Pleurodele Newt (*Pleurodeles waltii*), obtained in the vicinity of Seville in Spain, and presented to the Society by Lord Lilford, F.Z.S., August 13th.

28. A specimen of the Potto (*Perodicticus potto*), purchased September 4th.

This rare Lemurine form has only been once before exhibited in the Society's Gardens, in 1848*.

29. A fine young male of the Spanish Ibex (*Capra hispanica*), from the Sierra Hermosura, in Southern Spain, presented to the Society by Major Howard Irby, of the 74th Highlanders, September 4th. Unfortunately, the female of this species from the same locality, presented by the same generous donor in August 1868, has died; but several correspondents of the Society are on the look-out for examples of this animal, so that there are fair prospects of its becoming ultimately a permanent denizen of the Society's Gardens.

30. Three Island Hen-Gallinules, from Tristan d'Acunha (*Gallinula nesiotis*, Sclater, P. Z. S. 1861, p. 260, pl. xxx.), presented by E. L. Layard, Esq., F.Z.S., September 3rd.

31. A superb Crested Eagle (*Spizaëtus ornatus*), from Costa Rica, presented by Capt. J. M. Dow, F.Z.S., and received September 27th, being the first example of this fine bird of prey ever exhibited in the Society's Gardens.

32. Six Water-Tortoises (*Emys*), presented by the Rev. Basil Wilberforce, November 27. Upon being taken to the British Museum for identification, four of these animals proved to belong to a new species, which was described by Dr. Gray at the Society's Meeting in December, under the name *Emys flavipes*; and the two others to a species described by Dr. Gray at the Society's Meeting on the 11th of November, as *Mauremys laniaria*.

33. A specimen of a rare American Monkey, the Ouakari (*Brachyurus ouacaria*, Spix), obtained from the forests of the Rio Negro, by Lewis Joel, Esq., C.M.Z.S., H.B.M. Vice-consul at Ciudad Bolivar, Venezuela, and deposited in the Society's Gardens by Mrs. Joel, December 16th.

* See Report of the Council for 1849, p. 15.

LIST OF ANIMALS WHICH HAVE BEEN BRED IN THE GARDENS
OF THE ZOOLOGICAL SOCIETY IN THE YEAR 1869.

MAMMALS.

- 3 Spotted Hyænas (*Hyæna crocuta*).
 2 Tibetan Wolves (*Canis laniger*).
 3 Masked Paradoxures (*Paguma larvata*).
 5 Tigers (*Felis tigris*).
 1 Viscacha (*Lagostomus trichodactylus*).
 2 Mouflons (*Ovis musimon*).
 1 Aoudad (*Ovis tragelaphus*).
 1 Ibex (*Capra ibex*).
 3 Cretan Goats (*Capra beden*).
 1 Cashmere-shawl Goat (*Capra hircus*).
 1 Philantomba Antelope (*Cephalophus maxwellii*).
 1 Bless-bok Antelope (*Damalis albifrons*).
 3 Elands (*Oreas canna*).
 2 Nylghaies (*Portax picta*).
 1 Zebu (*Bos indicus*).
 1 Hybrid Gayal (between *Bos indicus* ♂ and *Bos frontalis* ♀).
 1 Japanese Deer (*Cervus sika*).
 1 Hog-Deer (*Cervus porcinus*).
 2 Mexican Deer (*Cervus mexicanus*).
 1 Virginian Deer (*Cervus virginianus*).
 1 Equine Deer (*Cervus equinus*).
 1 Burchell's Zebra (*Equus burchellii*).
 1 Syrian Wild Ass (*Equus hemippus*).
 2 Vulpine Phalangers (*Phalangista vulpina*).
 9 Cuming's Octodons (*Octodon cumingii*).
 1 Red Kangaroo (*Macropus rufus*).
 1 Yellow-footed Rock-Kangaroo (*Petrogale xanthopus*).
 1 Great Kangaroo (*Macropus giganteus*).
 1 Hybrid Kangaroo (between *Halmaturus bennettii* ♂ and *H. ruficolis* ♀).

BIRDS.

- 4 Common Bluebirds (*Sialia wilsonii*).
 3 Sun-birds (*Eurypyga helias*).
 3 Crested Pigeons (*Ocyphaps lophotes*).
 1 Nicobar Pigeon (*Calœnas nicobarica*).
 1 Bronze-winged Pigeon (*Phaps chalcoptera*).
 4 Red Ground-Doves (*Geotrygon montana*).

- 1 Rufous-necked Weaver bird (*Hyphantornis textor*).
 2 Barred-shouldered Ground-Doves (*Geopelia humeralis*).
 13 Undulated Grass-Parrakeets (*Melopsittacus undulatus*).
 1 Crested Ground-Parrakeet (*Calopsitta novæ-hollandiæ*).
 14 Japanese Pheasants (*Phasianus versicolor*).
 4 Swinhoe's Pheasants (*Euplocamus swinhoii*).
 4 Peacock Pheasants (*Polyplectron chinquis*).
 13 Bamboo-Partridges (*Bambusicola thoracica*).
 6 Temminck's Tragopans (*Cerionis temminckii*).
 4 Black-backed Porphyrios (*Porphyrio melanotus*).
 1 Brush-Turkey (*Talegalla lathamii*).
 4 Upland Geese (*Chloëphaga magellanica*).
 1 Ashy-headed Goose (*Chloëphaga poliocephala*).
 8 Egyptian Geese (*Chenalopez ægyptica*).
 4 Ruddy-headed Geese (*Chloëphaga rubidiceps*).
 8 Ruddy Sheldrakes (*Tadorna rutila*).
 6 Variegated Sheldrakes (*Tadorna variegata*).
 3 Summer Ducks (*Aix sponsa*).
 4 Bahama Ducks (*Pæcilonetta bahamensis*).
 4 Australian Wild Ducks (*Anas superciliosa*).
 6 Mandarin Ducks (*Aix galericulata*).
 10 Black-tailed Water-Hens (*Tribonyx ventralis*).

The following is a List of Donors and their several Donations to the Menagerie during the year 1869.

H.R.H. The Prince of Wales, F.Z.S.

One Emu, four Common Foxes.

H.R.H. The Duke of Edinburgh, F.Z.S.

One Wedge-tailed Eagle.

Acclimatization Society of Otago.

One Owen's Apteryx.

Acclimatization Society of Queensland.

Two Laughing Kingfishers, one Banded Grass-Finch, fourteen Chestnut-breasted Finches, four Barred-shouldered Doves, four Green-winged Doves, three Crested Pigeons, one Talegalla, one Laughing Kingfisher, eleven King Parrots.

Acclimatization Society of Victoria.

Five Wonga-wonga Pigeons.

Abbay, R., Esq.

One Cinereous Sea-Eagle.

Addison, Colonel.

One Mangabey Monkey.

- Alcock, H.E. Sir Rutherford, K.C.B., C.M.Z.S.
Two Chinese Tailed Deer.
- Alcock, Lady.
Three Chinese Silk-Fowls.
- Aldrich, Commander W. G., R.N.
One Arabian Baboon.
- Arnott, George W., Esq.
One Wood-Owl.
- Ashmead, J., Esq.
One Cornish Chough.
- Attlee, John, Esq.
One Stock-Dove.
- Austen, N. L., Esq., F.Z.S.
One Green Glossy Starling.
- Bagot, Capt. S.
Two Australian Wild Ducks.
- Baird, Alexander, Esq.
One Nilotic Trionyx.
- Balfour, H. T., Esq.
One Huanaco.
- Ball, Mr. E.
Two Black-eared Marmosets.
- Bamford, Charles, Esq.
One Great Eagle-Owl.
- Bancroft, Mrs.
One Red-and-Yellow Maccaw.
- Bartlett, Mr. A. D.
Twenty-three Edible Sea-Urchins, three Shore-Crabs.
- Bashford, Mr. G.
Two Common Chameleons.
- Batten, Mr. J. W.
One Grey Ichneumon.
- Batten, Robert G., Esq.
Three Short-headed Phalangers.
- Bayley, Henry, Esq.
Two Indian Leopards.
- Bennett, Dr. George, F.Z.S.
One New-Caledonian Rail, one Ursine Dasyure.
- Best, Hon. H. M.
One Blackbird.
- Bird, Capt. G. E.
One Vulpine Phalanger, one Yaguarundi Cat, one
Dorsal Squirrel.

- Blakiston, Capt.
One Cinereous Sea-Eagle, one Brown Bear.
- Boorne, James, Esq.
One Vulpine Phalanger.
- Boyle, Miss C.
One Cape Bunting, four Yellow-backed Whydah-birds,
one Crimson-crowned Weaver bird, one Hottentot
Finch, one Crested Ground-Parrakeet.
- Brassy, Mrs. Thomas, F.Z.S.
Two Royal Pythons, two Leopards.
- Brown, Capt. R. A., R.N.
One Andaman Monkey.
- Buckland, F. T., Esq., F.Z.S.
Seven River-Lampreys, five hundred Salmon-ova, two
hundred Trout-ova, two hundred Salmon-Trout, one
hundred Charr-ova.
- Bullen, D. B., Esq.
Two pairs of Common Wild Ducks, three Common
Wild Ducks.
- Burr, Higford, Esq.
One White-backed Piping Crow.
- Campbell, A. M., Esq.
One Bonnet-Monkey.
- Campbell, Peter, Esq.
One Coati, black variety.
- Clark, H., Esq.
One Cuckoo.
- Clark, Lieut., C.B., R.N.
Four Common Turtles.
- Clarke, Capt.
One Stump-tailed Lizard.
- Clarke, Capt. Melville.
One Grey Ichneumon.
- Cook, Miss.
One Black-eared Marmoset.
- Cooke, George, Esq.
One Barraband's Parrakeet.
- Cooper, Dr. John.
One Black-tailed Parrakeet.
- Cotton, Mr. Alderman and Sheriff.
One Common Heron.
- Cox, Charles H., Esq., F.Z.S.
One West-African Python.

- Cox, H. R., Esq.
One Black Swan.
- Cracknell, Capt. J.
One Grivet Monkey.
- Cranstoun, Lady.
One Common Peafowl.
- Crowther, Capt. R. O. B.
One Grey Ichneumon.
- Curzon, E. P. R., Esq.
One Common Viper.
- Czamikow, C., Esq., F.Z.S.
One West-African Python.
- Davidson, Capt. A. A.
One Wanderoo Monkey.
- Davies, Rees, Esq.
One Black Bear.
- Davy, Mr.
Three Common Adders.
- Deacon, Wm. M., Esq.
One Javan Chevrotain.
- De Grey, The Hon. T., M.P., F.Z.S.
One Common Bittern.
- Denison, E. H., Esq.
One Common Barn-Owl.
- Denneley, Chas., Esq.
One Coati.
- Denny, Henry, Esq.
One Ocellated Skink.
- Directors of the Botanic Gardens, Adelaide, South Australia.
One Mallee Bird, three Australian Monitors, four
Stump-tailed Lizards, three Mauge's Dasyures, one
Golden-bellied Beaver-Rat.
- Dixon, Alfred, Esq.
One Golden Eagle.
- Dow, Capt., F.Z.S.
One Puma, one Brown Pelican, one Superb Crested
Eagle.
- Dowling, W. G., Esq.
Four Red-bellied Waxbills, two Nutmeg-birds, one
Red-headed Weaver-bird.
- Downs, A., Esq.
Seven Garter-Snakes.
- Drewitt, F. D., Esq.
One Common Adder.

- Drew, J. Watkins, Esq.
One Honey-Buzzard.
- Dumford, Rev. F. E.
One Macaque Monkey.
- Dunbar, W., Esq.
Three Young Water-Ousels.
- Edenborough, Capt. Bolton.
Two Yellow-footed Rock-Kangaroos.
- Eder, D. M., Esq.
One Kinkajou.
- Elmhirst, Miss.
One Macaque Monkey.
- Emery, C., Esq.
One Spotted Ichneumon.
- Fairgrieve, Mr. A.
One Common Otter.
- Felstead, George, Esq.
One Grey Ichneumon.
- Ferris, John, Esq.
One Macaque Monkey.
- Firebrace, R., Esq., F.Z.S.
Two Ursine Dasyures.
- Flexman, John, Esq.
One Grey Crow-Shrike.
- Forbes, W. A., Esq.
One White Rat.
- Fraser, Capt. H. T.
One Common Wild Cat.
- Gallicher, Capt.
One Common Jackal.
- Gardner, Robert, Esq.
Two Greey's Guans.
- Geikie, Miss.
One Bonnet-Monkey.
- Gilson and Quelch, Messrs.
One Sly Silurus, one Hawk-billed Turtle.
- Glyn, Capt.
One Ocelot.
- Goodall, Mrs.
One Macaque Monkey.
- Gordon, The Hon. A., C.M.Z.S.
One Guacharo or Oil-bird.
- Goslett, Mrs. W.
One Macaque Monkey.

- Gould, John, Esq., F.Z.S.
One Talapoin Monkey, one Black-headed Gull, one
Rock-Pigeon.
- Greenlaw, Col. A. S.
Two Vieillot's Pheasants.
- Grove & Co., Messrs. C.
One Common Sturgeon.
- Groves, Mrs.
One Large Swiss Trout.
- Guy, J. L., Esq.
One Dorsal Squirrel.
- Habisch, J. J., Esq.
Two Common Kingfishers.
- Hairby, Mrs.
One Spotted Cavy.
- Halsey, Francis, Esq.
One Proteus.
- Harris, Edward, Esq.
Two Eye-browed Guans.
- Harrison, H. B., Esq.
One Common Barn-Owl.
- Harrison, Mr. J. W.
One Laughing Kingfisher.
- Hartley, James, Esq.
One Common Buzzard.
- Hawkins, Edward, Esq.
One Green Glossy Starling.
- Haynes, Mrs.
One Green Monkey.
- Hazlerigg, Capt. Arthur.
One Indian Leopard.
- Hensman, H. P., Esq.
One Wood-Pigeon.
- Hill, J., Esq.
One Palm-Squirrel.
- Hill, Miss F.
One Marmoset Monkey.
- Hill, Viscount, F.Z.S.
One Emu.
- Hine, F. Egerton, Esq.
One Vulpine Phalanger.
- Holmes, W. H., Esq.
One Maugé's Dasyure.

- Hounslow, Mr.
One South-American Rat-Snake.
- Hume, W. B., Esq.
Four Common Adders.
- Hutchinson, Mr. J.
One Bonnet-Monkey.
- Hutton, Mrs.
One Rose-crested Cockatoo.
- Ingham, W., Esq.
One Bengalese Ichneumon.
- Irby, Major Howard.
One Spanish Ibex.
- James, Charles, Esq.
One Macaque Monkey.
- Jepson, Mr. W. A.
One Greek Tortoise.
- Johnson, Thomas, Esq., F.Z.S.
One Common Barn-Owl.
- Jonas, F., Esq.
Thirteen Ruffe, or Pope.
- Juler, R. R., Esq.
One Cape Crowned Crane, one Vervet Monkey.
- Keene, Mr. J.
Two Ring-necked Parrakeets.
- Kerr, Norman, Esq., M.D.
One Quebec Marmot.
- Lacey, John, Esq.
Three Crested Ground-Parrakeets.
- Lake, Mr. W.
Two Common Kestrels.
- Lakeman, Sir S.
One Rock-Thrush, one Eastern Nightingale.
- Lampson, Sir C. M., Bart., F.Z.S.
Two Greenland Seals.
- Layard, E. L., Esq., F.Z.S.
One Vulturine Eagle, three Island Hen-Gallinules.
- Lee, H., Esq., F.Z.S.
Five Bass, two Soles, three Flounders, one Turbot,
one armed Bullhead, one Unctuous Sucker.
- Lee, Mrs.
Two European Tortoises.
- Levinsohn, L., Esq.
One Wild Boar.

- Lilford, Lord, F.Z.S.
One Pleurodele Newt.
- Linder, Samuel, Esq.
One Blue-and-Yellow Maccaw.
- Low, Mr. R.
Two Macaque Monkeys.
- Lucas, Mr.
One Squirrel-Monkey.
- Luck, F., Esq.
Two Rhesus Monkeys.
- Lynch, T. Kerr, Esq., F.Z.S.
Two Persian Gazelles, one Lion.
- Macdonald, J. C., Esq., F.Z.S.
One Dingo.
- Mackenzie, J. Somerset, Esq.
One Secretary Vulture.
- Madsen, P. W., Esq.
One Pike.
- Malcolm, J. W., Esq., F.Z.S.
One Red-throated Amazon.
- Marshall, Lieutenant, C. H. T., F.Z.S.
One Ring-necked Parrakeet.
- Martin, L. T. Hyde, Esq.
One Macaque Monkey.
- Martyn, Capt. J. A.
One Iceland Falcon.
- Mason, J. Esq.
Two Pied Rats.
- May, Colonel.
Two Crested Curassows.
- Messiter, C., Esq.
Two Raccoons, one Red Fox, one Prairie Marmot.
- Methuen, Rev. T. P.
One Cashmere Monkey.
- Miles, Capt.
One Hawk-billed Turtle.
- M'Leay, George, Esq., F.Z.S.
One Leadbeater's Cockatoo, one Roseate Cockatoo.
- M'Mullen, Mrs.
One Blue-winged Parrakeet.
- Moger, Robert, G., Esq.
One Marmoset Monkey.
- Monteiro, J. J.; Esq., C.M.Z.S.
Two Servals.

- Morison, Mrs.
Two Axis Deer.
- Morrel, Capt. A., R.N.
One Sloth-Bear.
- Moss, Miss.
One St. Helena Seed-eater.
- Mosse, C. B., Esq.
One Bay Antelope, one Two-spotted Paradoxure, one
Brush-tailed Porcupine.
- Mueller, Dr., C.M.Z.S.
One Laughing Kingfisher, one Black-backed Por-
phyrio, one Australian Quail.
- Nelson, The Earl.
One Red-and-Yellow Maccaw.
- Newman, T. W., Esq.
One Marmoset Monkey.
- Nicholson, B. C., Esq.
One Javan Chevrotain.
- Nicol, James D., Esq.
One Honey-Buzzard.
- Norris, J., Esq.
One Bonnet-Monkey.
- North, Mrs. Ford.
One Grey Parrot.
- Orred, G. Stanley, Esq.
One Black Bear.
- Owen, Dr. Owen.
One Vulpine Phalanger.
- Paget, Miss.
One Grey Parrot.
- Pain, Capt.
One Egyptian Jerboa.
- Palin, Dr. John A., C.M.Z.S.
One Kinkajou.
- Peacock, G., Esq.
One Kit Fox, one Hawk-headed Parrot, one Brown
Capuchin Monkey.
- Pearse, Major John.
Two Bengalese Leopard-Cats.
- Penny, Clement, P., Esq.
One Patas Monkey.
- Perry, Capt.
Two Common Boas.

- Pitford, T., Esq.
One Wood-Owl.
- Pollock, Col. F. R.
One Musk-Deer.
- Price, F. G. H., Esq.
One Squirrel-Monkey.
- Pusey, S. E. B., Esq., F.Z.S.
One Pair of Hybrid Cats.
- Quade, J. M., Esq.
One New-Zealand Hawk.
- Ridgway, Mr.
One Macaque Monkey.
- Ridley, H. M., Esq.
Two Golden Agoutis, one Restless Cavy.
- Robinson, C. S., Esq.
One Vervet Monkey.
- Roden, G. S., Esq.
Two White-handed Gibbons.
- Rose, W. M., Esq.
One Coati.
- Ross, R. C., Esq.
One Bennett's Wallaby.
- Rope, H. J., Esq.
One Common Otter.
- Round, Mrs. M.
One Rhesus Monkey.
- Rowley, G. Dawson, Esq., F.Z.S.
Two Double-striped Thick-knees.
- Royle, Miss Lucy.
One Common Kestrel.
- Ruthven, The Lord.
Two Snowy Owls.
- Salvin, F. H., Esq.
One Polecat.
- Sercombe, Mr.
One King Parrakeet.
- Sharpe, Mr. R. B.
Two Sparrow-Hawks.
- Shaw, Vero. K., Esq.
One Ring-necked Parrakeet.
- Shircore, J. C., Esq.
One Sulphur-breasted Toucan.
- Shoobridge, A., Esq.
One Kit Fox.

- Simon, P. L., Esq.
Two Virginian Colins.
- "Sinai Survey" Expedition.
One Syrian Fennec.
- Sinclair, Alexander, Esq.
One Chacma Baboon.
- Simpson, Dr.
One Panda.
- Smart, Capt. James N.
One Vulpine Phalanger.
- Smart, J. W., Esq.
One Ortolan Bunting, two Black-headed Buntings.
- Smithsonian Institution, Washington, U.S.A.
Three Menopomas, two Florida Land-Tortoises.
- Somersfield, Dr.
One Spotted Cavy.
- Somerville, Dr.
One Great Eagle-Owl.
- Speer, Alfred M., Esq.
One Crested Ground-Parrakeet.
- Spencer, Capt.
One Grey Ichneumon.
- Stanton, Mr. J.
One Common Kestrel.
- Stevens, Mrs.
Two Macaque Monkeys.
- Stewart, W. D., Esq. (the late).
One Puma.
- Stillwell, J., Esq., F.Z.S.
One Rhesus Monkey.
- Strachan, Capt. W. H.
Two Clapperton's Francolins.
- Streathfield, Frederick G., Esq.
One Carolina Conure.
- Stuart, Capt.
Two Rough-legged Buzzards.
- Sturt, Charles J., Esq.
One Bengalese Leopard-Cat.
- Susini, John, Esq.
One Common Buzzard.
- Tate, W. R., Esq.
One Common Adder.
- Thwaites, Capt. J.
One Coati (brown variety).

- Tough, Capt. James.
Two Barbary Turtledoves.
- Train, G. B., Esq.
One Macaque Monkey.
- Tulloch, Dr. J. S., F.Z.S.
Three Crested Ground-Parrakeets.
- Turner, Benjamin F., Esq.
One Roebuck.
- Tyas, J. W., Esq.
Two Vulpine Phalangers, one Sooty Phalanger, one
Ceriopsis Goose.
- Wainwright, H. M., Esq.
Two Marmoset Monkeys.
- Waite, Capt. Thomas.
Nine Common Chameleons, two Getulian Squirrels,
four North-African Jackals.
- Whistler, Major-Gen. J. K.
Two Common Peafowl.
- White, T. C., Esq.
Three Water-Rats.
- Wigram, C. H., Esq.
One Wonga-wonga Pigeon.
- Wilberforce, Rev. Basil.
Four Yellow-footed Water-Tortoises, two Laniarian
Water-Tortoises.
- Wilde, G. A., Esq.
One Grey Parrot.
- Wilks, George, Esq., C.M.Z.S.
Two Maguari Storks, one Bay Cow-bird, four Southern
Cow-birds, one Azara's Opossum, two Capybaras.
- Willoughby d'Eresby, Lord.
One Common Badger.
- Wilson, J. P., Esq.
One Red-and-Blue Maccaw.
- Woods, Rev. H. H.
One Vervet Monkey.
- Worsfold, W., Esq.
One Laughing Kingfisher.
- Wright, Mrs.
One Blue-crowned Conure.

Conclusion.

The Council cannot conclude their Report without recording their obligations to those Fellows of the Society who have so materially assisted them in the execution of their duties by acting on the several Committees of Audit, Finance, and Publication during the past year.

They believe that they may also safely congratulate the Fellows generally upon the present flourishing condition of every branch of the Society's establishment.

The continued popularity of the Gardens as a place of public resort, and the very favourable state of the finances, enable them to do this with the utmost confidence.

Signed (for the Council),

P. L. SCLATER,

Secretary.

11 Hanover Square, April 29th, 1870.

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

Appointed January 20, 1870.

THE Auditors having fully examined the Accounts of the Society, inspected the Books, and seen Vouchers for all the various Payments ordered by the Council for the year ending December the 31st, 1869, respectfully submit to the Society an Abstract of such Accounts, together with a Statement of the Assets and Liabilities at the close of the year, and a Report thereon.

RECEIPTS.

				£	s.	d.	
Balance brought from Dec. 31, 1868				873	12	7	
INCOME.							
Belonging to years		£	s.	d.	£	s.	d.
1862	Garden Sales				10	3	0
1866	Annual Subscriptions				3	0	0
1867	{ Admission Fees	5	0	0			
	{ Annual Subscriptions	6	0	0			
	{ Garden Sales	4	8	0			
					15	8	0
1868	{ Admission Fees	80	0	0			
	{ Annual Subscriptions	55	0	0			
	{ Ivory Tickets	3	3	0			
	{ Transactions	119	1	1			
	{ Proceedings.....	76	5	0			
	{ Garden Sales	164	11	6			
					498	0	7
1869	{ Admissions to Gardens	12,865	4	0			
	{ Rent for Refreshment Rooms	780	0	0			
	{ Garden Sales	196	16	8			
	{ Admission Fees	850	0	0			
	{ Compositions	630	0	0			
	{ Annual Subscriptions	5,852	7	0			
	{ Ivory Tickets	72	10	0			
	{ Transactions	82	4	9			
	{ Proceedings.....	113	18	10			
	{ Publications.....	407	5	0			
	{ Dividends	293	2	6			
{ Miscellaneous	0	8	0				
					22,143	16	9
1870	{ Annual Subscriptions	88	0	0			
	{ Publications.....	5	5	0			
	{ Ivory Tickets	4	4	0			
					97	9	0
1871	Publications				1	1	0
INCOME RECEIVED IN 1869				22,768	18	4	
Proceeds of Sale of £3000 Reduced 3 per Cents				2,757	10	0	
Loan from Bankers, April 27.....				1,500	0	0	
Ditto ditto Dec. 17				1,000	0	0	
					28,900	0	11

Comparison of Receipts in 1868 and 1869.

<i>Receipts.</i>				
	Income of		Increase.	Decrease.
	1868.	1869.		
	<i>£ s. d.</i>	<i>£ s. d.</i>	<i>£ s. d.</i>	<i>£ s. d.</i>
Admission Fees:—				
Past.....	180 0 0	85 0 0	.....	95 0 0
Present.....	1,430 5 0	850 0 0	.....	580 5 0
Annual Subscriptions:—				
Past.....	102 0 0	64 0 0	.....	38 0 0
Present.....	5,733 18 0	5,852 7 0	118 9 0	.....
Future.....	76 0 0	88 0 0	12 0 0	.....
Compositions.....	1,410 0 0	630 0 0	.....	780 0 0
Ivory Tickets.....	83 11 0	79 17 0	.....	3 14 0
Admissions to Gardens..	12,651 4 0	12,865 4 0	214 0 0	.....
Garden Sales.....	1,496 10 1	375 19 2	.....	1,120 10 11
Rent for Refreshment				
Rooms.....	780 0 0	780 0 0	.....	.....
Publications.....	697 8 5	805 0 8	107 12 3	.....
Dividends.....	292 10 0	293 2 6	0 12 6	.....
Miscellaneous.....	25 0 7	0 8 0	.....	24 12 7
	24,958 7 1	22,768 18 4	452 13 9	2,642 2 6
Decrease.....	.....	2,189 8 9	Ded. Incr.	452 13 9
	24,958 7 1	24,958 7 1	.....	2,189 8 9
Total Payments in 1869..... <i>£</i> 25,748 19 4				
Total Receipts in 1869..... 22,768 18 4				
Payments over Receipts 2,980 1 0				
<i>Dr. Cash</i>				
To Balance brought from December 31, 1868.....	<i>£</i> 873 12 7			
To Income received in the Year.....	22,768 18 4			
To Proceeds of Sale of £3000 Reduced 3 per Cents.....	2,757 10 0			
To Loan from Bankers, had April 27.....	1,500 0 0			
To ditto ditto had December 17.....	1,000 0 0			
	28,900 0 11			

Comparison of Payments in 1868 and 1869.

<i>Payments.</i>						
	Expenditure of		Increase.	Decrease.		
	1868.	1869.			£ s. d.	£ s. d.
Arrears of previous year	2,838 14 3	2,597 9 3	.....	241 5 0		
Rent, Rates, and Taxes	753 8 4	684 10 0	.....	68 18 4		
Salaries, Wages, and Pensions	4,529 11 1	4,509 17 6	.....	19 13 7		
Cost, Carriage, and Keep of Animals	2,521 10 1	1,646 17 11	.....	874 12 2		
Provisions	4,107 15 11	4,064 14 10	.....	43 1 1		
Menagerie Expenses	1,866 8 10	1,808 7 4	.....	58 1 6		
Keepers' Dresses	213 5 9	150 1 6	.....	63 4 3		
New Buildings and Works connected.....	1,991 17 6	5,411 14 11	3,419 17 5	.....	
Other Works, Materials, and Repairs ..	3,280 9 3	1,633 3 3	.....	1,647 6 0		
Garden Expenses	783 8 10	627 12 9	.....	155 16 1		
Band Expenses	165 14 6	163 19 0	.....	1 15 6		
Advertisements	130 0 6	125 11 6	.....	4 9 0		
House and Office Expenses..	467 6 9	498 18 2	31 11 5	.....	
Stationery	68 11 0	64 7 7	.....	4 3 5		
Printing (Miscellaneous)....	286 19 9	286 7 6	.....	0 12 3		
Proceedings (including Printing)	1,352 13 7	909 5 5	.....	443 8 2		
Transactions, ditto ditto	645 5 1	303 0 4	.....	342 4 9		
Library Expenses	248 10 8	206 10 9	.....	41 19 11		
Law Expenses .....	.....	7 19 4	7 19 4	.....	
Cost of Silver Medal.....	.....	4 3 6	4 3 6	.....	
Returned Subscriptions	61 12 0	44 7 0	.....	17 5 0		
	26,313 3 8	25,748 19 4	3,463 11 8	4,027 16 0		
Decrease.....	.....	564 4 4	Ded. Incr.	3,463 11 8		
	26,313 3 8	26,313 3 8	.....	564 4 4		
Ordinary Expenditure	22,381 9 7	19,539 2 10	.....	2,842 6 9		
Extraordinary ditto	3,931 14 1	6,209 16 6	2,278 2 5	2,278 2 5		
	26,313 3 8	25,748 19 4	.....	564 4 4		
<i>Contra</i>				<i>Cr.</i>		
				£ s. d.		
By Expenditure paid in the year (including arrears of 1868).....				25,748 19 4		
By Cost of Power of Attorney				1 1 6		
By Repayment of Loan of £1500 (had Apr. 27th), with Interest to Oct. 21st				1,526 16 7		
By Balance at Banker's, December 31, 1869				1,623 3 6		
				28,900 0 11		

The Assets and Liabilities of the Society on the 31st of
December 1869 were as follow :—

ASSETS.						
	Arrears of		Capital Funded.	Cash.	Total.	
	Previous Years.	Current Year.				
	£	s. d.	£	s. d.	£	s. d.
Cash at Banker's...					1623	3 6
Paid for £7,000 Reduced 3 per Cents			6599	14 4		
Annual Sub- scriptions ... }	104	0 0	370	0 0		
Ivory Tickets	5	5 0	11	11 0		
Garden Sales	321	17 6	359	14 6		
Publications	74	1 0	132	17 9		
	505	3 6	874	3 3	1623	3 6
			6599	14 4	9602	4 7

LIABILITIES.		
	Debts.	
	£	s. d.
Bills, &c., estimated at—		
For the Gardens, say	1299	14 1
General Establishment	466	4 9
		1765 18 10
Rent and Taxes unpaid—		
For the Gardens, say.....	299	12 2
General Establishment	59	8 8
		359 0 10
Messrs. Gammon, Contract pending		1062 6 1
Temporary Loan from Bankers, had Dec. 17...		1000 0 0
		4187 5 9

The Auditors remark an increase in the Annual Subscriptions, in Admissions to the Gardens, and in the sums received from the sale of Publications; and observe with satisfaction that, although the total amount of cost of New Buildings and Works was £5411, the reduction in the funded property caused thereby did not exceed £3000.

The number of Fellows and Annual Subscribers is greater than it has been at any time during the last twenty-eight years; and the Committee of Auditors, on the whole, feel satisfied with the present position, and have confidence in the future prospects of the Zoological Society.

In concluding their Report, the Auditors beg to assure the Society that the performance of their duties has been greatly facilitated by the admirably clear and accurate state of the accounts, which have been arranged and laid before them by the Society's accountant Mr. Leigh.

EDW. GREENAWAY.
H. E. DRESSER.
W. H. HUDLESTON.
ROBERT LOW.
EDWARD JOHNSTONE.
ALEX. NOWELL SHERSON.
JAMES TENNANT.

11 *Hanover Square,*

February 25, 1870.