

REPORTS
OF THE
COUNCIL AND AUDITORS
OF THE
ZOOLOGICAL SOCIETY
OF LONDON,
FOR THE YEAR 1912.

PREPARED FOR THE ANNUAL GENERAL MEETING,

TO BE HELD ON

TUESDAY, APRIL 29TH, 1913.

PRINTED BY
WATERLOW & SONS LIMITED, LONDON WALL, LONDON.
1913.

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REPORT OF THE COUNCIL

for the year ending 31st December, 1912.

ANNUAL GENERAL MEETING.

THE Eighty-fourth Annual General Meeting of the Society will be held on Tuesday, April 29th, 1913, at 4 p.m. at the Offices of the Society, at the Gardens, Regent's Park, N.W.

PROCEDURE AT THE ANNUAL GENERAL MEETING.

(By-Laws, Chapter VII., Sections 1 and 2, as amended August 18th, 1904.)

SECT. I. Notice of the time and place of the Annual General Meeting shall be advertised by the Council in four or more of the public Newspapers, at least fourteen days before the same shall take place.

SECT. II. The course of procedure at the Annual General Meeting, after the Chair has been taken, shall be as follows:—

1. The reading of the Minutes of the previous Annual Meeting.
2. The Appointment of Scrutineers and opening of the Ballot.
3. Presentation of the Auditors' Report, previously issued to Fellows.
4. Discussion of the Auditors' Report.
5. Presentation of the Council's Annual Report, previously issued to Fellows.
6. Discussion of the Council's Annual Report.
7. To receive the report of the Scrutineers on the result of the Ballot.

No other business shall be transacted at such Meeting.

STATE OF THE ROLL OF MEMBERS.

Fellows.

The number of Fellows and Fellows Elect on the 1st of January, 1912, was 4,477.

During the year 339 Fellows were elected or re-admitted, and 228 died or otherwise ceased to be Fellows, the net addition to the roll for the year being 111; the total number on the roll on January 1st, 1913, reached 4,588, the largest in the history of the Society.

Until 1906, the amounts paid by Fellows as composition for their annual subscriptions were treated as income, but in that year the Council raised the amount of the life composition from £30 to £45, and decided to invest the sums received. The annexed table sets forth the state of the Roll of Fellows in 1905 (the last year before the new system was adopted) and in 1911 and 1912.

	1905.	1911.	1912.
Compounders at £20	2	1	1
" „ £30	1,013	907	879
" „ £45	—	82	98
Compositions remitted... ..	43	40	41
Paying annually	2,434	3,220	3,363
Dormant	139	184	170
Admission-fees unpaid... ..	71	43	36
Total ...	3,702	4,477	4,588

It was the intention of the Council to proceed with the recommendation of Candidates for the Fellowship until the roll stood at the number of 5,000, and thereafter only to fill vacancies. It is doubtful, however, if such a limitation, exercised either by the Council or the Fellows, would be within the terms of the Charter, and when the number reaches 5,000 it may be advisable merely to reduce the privileges of Fellows in excess of that number.

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.				Subscribers.	Subscribers Resigned.	Removed.			Ceased to be Fellows.	Number of Fellows, December 31.
		Compounders.						Subscribers.	Dormant.	Admission Fees Unpaid.		
		£20.	£30.	£45.	Fee re-mitted.							
1903 ...	218	...	22	...	1	65	45	9	4	4	150	3,481
1904 ...	249	...	33	...	1	64	49	7	11	8	173	3,557
1905 ...	309	...	35	...	...	71	44	5	5	4	164	3,702
1906 ...	371	1	23	...	...	71	41	8	3	5	152	3,921
1907 ...	295	...	28	...	...	72	55	5	4	12	176	4,040
1908 ...	238	...	26	1	4	78	53	7	4	4	177	4,101
1909 ...	288	...	33	...	3	67	55	5	6	6	175	4,214
1910 ...	333	...	28	...	2	80	56	10	10	12	198	4,349
1911 ...	341	...	27	...	...	77	53	17	31	8	213	4,477
1912 ...	339	...	28	1	1	87	60	12	29	10	228	4,588

Honorary, Foreign and Corresponding Members.

The following gentlemen were elected to fill vacancies on the lists :—

Honorary Member—

Lt.-Gen. Sir Francis Wingate, G.C.V.O., K.C.B., K.C.M.G., The Palace, Khartoum, Sudan.

Foreign Member—

Prof. Gustaf Retzius, M.D., Medico-Chirurgical Institute, Stockholm.

Corresponding Members—

Herr Carl Hagenbeck, Tierpark, Stellingen, near Hamburg.

Mr. Norman B. Kinnear, Bombay Natural History Society, Bombay.

Mr. Wilfred A. Smithers, Cordova, Argentine Republic, South America.

Prof. Mattoso Santos, Instituto Zoologico, Escola Polytechnica, Lisbon.

PRESENTATION OF THE SOCIETY'S SILVER MEDAL.

The Silver Medal of the Society was awarded on March 6, 1912, to Major J. Stevenson-Hamilton, C.M.Z.S., Game Warden of the Transvaal, in commemoration of the King's South African Collection. Major Stevenson-Hamilton rendered the Society great assistance in making the arrangements for the formation of this valuable Collection and for its transport to London.

SCIENTIFIC WORK OF THE SOCIETY.

According to the terms of the Charter, the Society exists not only for 'the introduction of new and curious subjects of the Animal Kingdom,' but for the 'advancement of Zoology and Animal Physiology.' In addition to maintaining the Gardens for the education, study and pleasure of those interested in zoology, the Society takes a share in the advancement of knowledge in more direct modes.

The Evening Scientific Meetings have been well attended, and many important contributions to Zoological Science have been made to them. On the evening of each Meeting a motor omnibus leaves Regent's Park Tube Station at 8.15 p.m., conveying Fellows direct to the Meeting Room, and there is a similar return service at 10.30 p.m. at the conclusion of the Meeting.

The Society has hitherto hired a Lantern for its Scientific Meetings. Sir E. G. Loder, Bt., a Vice-President, has presented an Optical Lantern for the better illustration of the Lectures and Demonstrations. The instrument, which has been specially constructed by Messrs. Newton & Co., is so arranged that either lantern slides or pieces of apparatus, pond life, or other objects, etc., can be shown as desired. The Lantern is illuminated by a powerful electric arc lamp, a special cable having been laid on for the purpose, so that the Society is now equipped with a piece of optical apparatus really worthy of the important work it does.

The annual "Record of Zoological Literature," as stated in last year's Report, was produced in co-operation with the Zoological Volume of the "International Catalogue of Scientific Literature," Vol. XLVIII., covering

the literature of 1911, being the first issue for a second period of five years. *Index Zoologicus*, No. II., and the *Decennial Index to the Society's Scientific Proceedings*, were also prepared and published.

The rules for zoological nomenclature, and especially what is called the law of priority, have been engaging the attention of zoologists. At a Scientific Meeting of the Society in 1910 (P.Z.S. 1910, p. 101), Dr. W. E. Hoyle, English Member of the International Commission on Zoological Nomenclature, explained the Report presented to the Graz Meeting of the International Zoological Congress. As a result of subsequent discussion, the meeting declared itself strongly in favour of the International Congress giving its authority to the formation of a List of Zoological Names, the significance of which should not be altered by application of the rules of the International Code. Understanding that the question would come up for discussion at the meeting of the Congress at Monaco in March, 1913, the Council appointed a Committee consisting of Dr. F. A. Bather, F.Z.S., F.R.S., Dr. S. F. Harmer, F.Z.S., F.R.S., Professor E. W. MacBride, F.Z.S., F.R.S., Mr. R. I. Pocock, F.Z.S., F.R.S., Mr. O. Thomas, F.Z.S., F.R.S., and Dr. P. Chalmers Mitchell, Sec. Z.S., F.R.S., to advise as to what instructions should be given to the official representatives of the Society at the Congress. On the unanimous advice of the Committee, the Council passed the following resolution:—

“The President and Council of the Zoological Society, although giving freedom of action to their delegates at the Monaco Meeting of the International Congress of Zoology, desire to inform them that in their opinion an absolutely invariable application of the rule of priority in zoological nomenclature is not to the advantage of zoological science, and that they would welcome a modification of it, as for instance by the establishment of an authoritative fiat list of reserved names.”

The Secretary, Mr. O. Thomas, and Dr. F. A. Bather were appointed to represent the Society at the Congress.

The Society's Library has been of great service to zoologists. Many new volumes have been added by purchase or presentation. A list of books recommended by Fellows for purchase is kept by the Librarian and is considered at the meetings of the Library Committee.

The Society was represented by the President, H.G. the Duke of Bedford, K.G., at the celebration of the 250th Anniversary of the foundation of the Royal Society. The Secretary, Dr. P. Chalmers Mitchell, F.R.S., and Mr. Guy A. K. Marshall, F.Z.S., were nominated to represent it at the Second International Congress of Entomology at Oxford; and Mr. H. G. Plimmer, F.R.S., at the First International Congress of the Society of Comparative Pathology at Paris. The Secretary, Dr. P. Chalmers Mitchell, was President of the Zoological Section of the British Association at Dundee, and took "Zoological Gardens and the Preservation of Fauna" as the subject of his address.

The scheme for the instruction of school teachers, arranged in 1910 by the Council in co-operation with the Education Committee of the London County Council, has been carried out in the extended form described in last year's Report. Each course can be attended by 150 teachers, and consists of three lectures with lantern demonstrations in the Society's Meeting Hall, and the number of practical demonstrations in the Gardens necessary to give the teachers, in groups of twenty-five, a demonstration for each lecture. The three courses for 1911-1912 were conducted by Mr. J. L. Bonhote, M.A., F.Z.S. The same gentleman took charge of the first course for the Session 1912-13, and the two others have been put in charge of Mr. Frank Balfour-Browne, M.A., F.Z.S. The London County Council supplies a grant towards the expenses of the scheme, the object of which is to make the visits of school children, afterwards brought by their teachers, more useful.

The Anatomical and Pathological work in the research laboratories at the Prosectorium has been actively prosecuted, and the new laboratories provide better accommodation than was formerly available. Fellows who desire to engage in research are requested to communicate with the Secretary or with the Prosector.

BEE-KEEPING.

The Council arranged with the British Bee-keepers' Association, which had received a grant from the Development Commissioners for the establishment of an experimental and educational Apiary in London, to

provide accommodation at the Gardens. A site on the North Bank of the Canal was selected for the Apiary, made suitable for hives and for demonstrations, and the use of the lecture-room for lectures was given. The Association paid the Society a small rental to cover expenses, and agreed to remove the bees if their presence proved injurious to visitors or to the animals. So far as the Society is concerned, the arrangement worked satisfactorily in 1912.

EXHIBITION OF PHOTOGRAPHS OF BRITISH ANIMALS.

The Council agreed to lend the Zoological Photographic Club the use of the Meeting Room for an Exhibition of Photographs of British Animals, the Club to pay all expenses of framing and hanging the photographs, the Society to provide suitable screens, pay the cost of a catalogue, and take receipts for admission and money received for catalogues sold. The exhibition proved to be of remarkable interest, and was visited by many naturalists, but failed to attract the general public.

SCIENTIFIC MEETINGS.

To the twelve meetings for scientific business held in the Society's Rooms in 1912, 89 communications were made. Of these, 73 were from Fellows and 6 from Foreign or Corresponding Members. The remaining 10 papers were from individuals not belonging to the Society, and were communicated by the Secretary or by other Fellows. The total number of communications in the year 1911 was 105.

These communications were submitted to the Committee of Publication, by which 52 were ordered to be printed in the 'Proceedings,' and 2 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.

PUBLICATIONS.

Abstract.

Since January, 1904, the Society has published on the Tuesday following the date of each Scientific Meeting an *Abstract of the Proceedings*. It is issued with the *Proceedings* free of charge to all Fellows who subscribe

to the Publications; but it may be obtained on the day of publication at the price of *Sixpence*, or, if desired, it will be sent post-free for the sum of *Six shillings* per annum, payable in advance. The *Abstract* contains no scientific matter that will not be published afterwards in the *Proceedings*, but is convenient as a more rapid means of publishing new anatomical facts, or the descriptions of new species, and it announces, whenever possible, the communications to be made at the next Scientific Meeting.

Proceedings.

The *Proceedings* of the year are issued in two volumes, indexed separately, each of which contains two parts. The year's issue has consecutive pagination throughout, so that the complete reference to any memoir after 1905 is "P.Z.S., 19- , p. "

The four parts of the 'Proceedings' for 1912 were issued in the months of March, June, September, and December, thus completing the two volumes within the year, and securing a more even distribution than was formerly possible.

The two volumes for 1912 contain 913 pages (exclusive of the indexes, which are now paged separately) with 97 plates and 126 illustrations in the letterpress. In the following Table are given the number of plates and pages of the volumes of 'Proceedings' for the past ten years:—

	Plates.	Pages.		Plates.	Pages.
1903 . .	57	780	1908 . .	68	983
1904 . .	60	1010	1909 . .	86	952
1905 . .	37	937	1910 . .	101	1033
1906 . .	70	1034	1911 . .	64	1213
1907 . .	56	1121	1912 . .	97	913

Decennial Index.

An Index-volume of the Proceedings, for the ten years 1901-1910, was published on November 1st. It contains:—

1. An alphabetical list of the Contributors, with references to the several articles contributed by each.
2. An Index to the Genera and Species described and referred to.

3. An Index of the Illustrations.
4. An Index of new Generic Terms.

The last two items have not previously been included in these Index volumes.

Transactions.

Of the Society's quarto *Transactions*, two parts, beginning a new volume, were published in 1912, viz. :—

VOL. XX. PART 1, pp. 1-72. (February, 1912.)

The Development of the Starfish (*Solaster endeca* Forbes). By James F. Gemmill, M.A., M.D., D.Sc., F.Z.S. (Plates I-V.)

VOL. XX. PART 2, pp. 73-134. (April, 1912.)

On the Sphingidæ of Peru. By the Rev. A. Miles Moss, M.A., F.Z.S., F.E.S., with a Preface by Karl Jordan, Ph.D. (Plates VI-XV.)

The following two parts were published early in the current year :—

VOL. XX. PART 3, pp. 135-230. (February, 1913.)

Second Contribution to our Knowledge of the Varieties of the Wall Lizard (*Lacerta muralis*). By G. A. Boulenger, F.R.S., F.Z.S. (Plates XVI-XXIII and Text-figures 1-4.)

VOL. XX. PART 4, pp. 231-246. (February, 1913.)

On the Crustacea Isopoda of the 'Porcupine' Expedition. By the Rev. T. R. R. Stebbing, M.A., F.R.S., F.L.S., F.Z.S. (Plates XXIV-XXVI.)

Zoological Record.

The 48th Volume of the 'Zoological Record' (which contains a List of Titles and Subject and Systematic Indexes of the work published by zoologists all over the world in 1911) is the sixth volume under the scheme of amalgamation with the zoological portion of the 'International Catalogue of Scientific Literature.' The Editor, Dr. David Sharp, F.R.S., F.Z.S., and his staff of recorders were able to finish their work in 1912. The divisions relating to *Porifera*, *Echinoderma*, *Pisces* and *Vertebrata* (*General*), were actually published in October, the remaining divisions in December, and the complete volume on December 24th.

Fellows of the Society, learned Societies and Institutions, and members of the former Zoological Record Association, who subscribe through the Zoological Society, will receive the present and future volumes of the 'Record' in the same binding and on the same terms as heretofore—that is to say, at a subscription price of 30s. per annum, the subscription being due on the first of July each year.

The complete Volume consists of separately paged Divisions. These may be obtained singly, in paper covers, stitched and lettered.

The following are the Divisions and their net prices, viz. :—

	s.	d.
Comprehensive Zoology	2	6
Protozoa	2	0
Porifera or Spongida	2	0
Coelenterata	2	0
Echinoderma	3	6
Vermidea	3	0
Brachiopoda and Bryozoa	2	0
Mollusca	4	0
*Arthropoda (General)	2	0
Crustacea	2	6
Trilobita, Arachnida, Myriapoda	3	6
Insecta	12	0
Prochordata	1	6
*Vertebrata (General)	1	6
Pisces	2	6
Reptilia and Batrachia	2	6
Aves	6	0
Mammalia	2	6
List of abbreviations of Journals	2	0
List of New Genera	2	0

* The general Division, Arthropoda, is also bound with the Divisions Crustacea, Trilobita-Arachnida-Myriapoda and Insecta, and the general Division, Vertebrata, with the Divisions Pisces. Batrachia-Reptilia, Aves and Mammalia. Purchasers of any of these special Divisions will, therefore, also receive the general Divisions in question.

Index Zoologicus, No. II.

In the year 1902, the Society published an *Index Zoologicus*, compiled by Mr. C. O. Waterhouse and edited by Dr. D. Sharp, F.R.S., in continuation of the *Nomenclator Zoologicus* of S. H. Scudder, issued by the Smithsonian Institution in 1882, and intended to be a

complete index to the generic names used in Zoology to the close of the year 1879. The *Index Zoologicus* was an alphabetical list of names of genera and subgenera proposed for use in Zoology as recorded in the 'Zoological Record,' 1880-1900, together with other names not included in the 'Nomenclator' of Scudder.

Realizing the advantage to science of a continuance of this work, and being of the opinion that a list should be compiled at decennial intervals, the Council arranged for the issue of an *Index Zoologicus* No. II., covering the period 1901-1910, together with names not included in previous nomenclators. The references to the original place of publication of the names indexed are through the annual volumes of the 'Zoological Record,' but by the kind co-operation of the Council of the Royal Society, the new volume also forms an index to the Zoology volumes of the first ten annual issues of the 'International Catalogue of Scientific Literature,' the early volumes of which were distinct from the 'Zoological Record.' As before, the Council was fortunate in securing, for the preparation of the index, the services of Mr. C. O. Waterhouse and Dr. David Sharp. It was published in November, 1912, and recorded some 22,000 names.

INDEX ZOOLOGICUS No. II. Bound in cloth, octavo, pp. 324. Nov., 1912.

To the Public. 15/- net.

To Fellows of the Zoological Society, and owners of sets of the 'Zoological Record' or the "International Catalogue of Scientific Literature." 12/6 net.

INDEX ZOOLOGICUS No. I. Bound in cloth, octavo, pp. 420. 1902.

To the Public. £1 net.

To Fellows of the Zoological Society. 18/- net.

List of Institutions, &c., on the Exchange List of the Society's Publications.

A full list of these Institutions, &c., was printed in the Report for 1902; in 1903 no change was made; since that date the following additions have been made:—

1904.

The Carnegie Museum, Pittsburgh, Pa., U.S.A.

1905.

The Bloemfontein Government Library.
 The Royal Zoological Society of Ireland, Dublin.
 The Australian Museum, Sydney, N.S.W.

1906.

Archiv für Naturgeschichte, Berlin.

1907.

Laboratoire Arago, Banyuls-sur-Mer, France.
 Station for Experimental Evolution at Long Island of the
 Carnegie Institute of Washington, U.S.A.

1908.

The State University of California, Berkeley, Cal., U.S.A.
 The American Academy of Arts and Sciences, Boston, U.S.A.

1909.

The Bombay Natural History Society, Bombay.

Garden Guide.

The 'Official Guide to the Society's Gardens,' written and revised annually, by the Secretary, consists of 112 pages, with many illustrations, a Plan of the Gardens, and a Railway and Street Map showing modes of access from different parts of London. The Guide is printed by Messrs. Bradbury, Agnew and Co.; it is published by the Society at its Offices, and sold there and in the Gardens at the price of sixpence in paper covers. The copyright and the profits of sale belong to the Society. Since 1903, when the first edition was published, 383,471 copies have been sold. The eleventh edition, with many new illustrations, and printed on art paper, will be published before the Annual Meeting.

Postcards.

In 1912 there were sold of the series printed in 1911, 26,756, and of a new series printed in 1912, 129,634, a total of 156,390. A new series is being prepared for 1913.

The net profit to the Society on the guides and postcards amounted to over £950 for the year.

LIBRARY.

The Library, under the superintendence of Mr. F. H. Waterhouse, the Society's Librarian, was maintained in good order throughout the year. Altogether 1,550 visits

were paid by Fellows and persons introduced by them, and about 1,500 volumes were borrowed under the usual regulations.

Mr. F. H. Waterhouse retired at the end of the year and was granted a pension by the Council. He had been 40 years in the service of the Society and his amiability and knowledge have been highly appreciated by Fellows who use the library. Mr. Henry Peavot, Assistant-librarian and Clerk of Publications since 1908, was appointed to succeed him, but is to continue his valuable services as Clerk of Publications and Assistant Editor of the Society's Scientific Publications. E. E. Riseley, Clerk in the Library on weekly wages, has been placed on the Monthly Books of the Society and, if necessary, further assistance will be provided.

Many important additions to the Library were made during the past year, among which attention may be called to the following donations:—

<i>Donor.</i>	<i>Donation.</i>
I. J. Abrahams.	List of the Animals in the Gardens of the Zoological Society, July, 1829. Catalogue of the Animals preserved in the Museum of the Zoological Society, April, 1829. Address to the Zoological Club of the Linnean Society, 1826.
Trustees of the Australian Museum.	North. Nests and Eggs of Australian Birds. Vol. iii., parts 4, 5.
Trustees of the British Museum.	Andersen. Catalogue of the Chiroptera. 2nd Ed. Vol. i. 1912. Hampson. Catalogue of the Lepidoptera Phalænæ. Vol. xi. 1912.
	Morley. Revision of the Ichneumonidæ. Part 1. 1912.
	Handlist of Birds. Index. 1912.
	National Antarctic Expedition, 1901-1904. Reports. Vol. vi. 1912.
	Special Guide to Bible Exhibition. 1912.
R. A. Bullen.	Harlyn Bay, and the Discoveries of its Prehistoric Remains. 3rd Ed. 1912.
Robert Collett.	Norges Pattedyr. Hefte xi.-xvi. 1912.
Frank Finn.	Finn. The Game Birds of India and Asia. 1911.
	Abbot. The Home-life of the Osprey. 1911.
	Bickerton. The Home-life of the Terns or Sea Swallows. 1912.
	Coupin. Animaux de Nos Pays. Dictionnaire Pratique. 1909.

- Frank Finn. Dugmore. Wild Life and the Camera. 1912.
Lowe. A Naturalist on Desert Islands. 1911.
Pycraft. The Infancy of Animals. 1912.
Le Zebra. 1913.
- Achille Griffini. Paris Museum. La Ménagerie, ou les Animaux Vivants. 1801.
- Sir Harry H. Johnston. Butterfly - Hunting in Many Lands. 1912.
- G. B. Longstaff. Chalmers Mitchell. The Childhood of Animals. 1912.
Gemmill. The Teratology of Fishes. 1912.
Scharff. Distribution and Origin of Life in America. 1911.
Stevenson-Hamilton. Animal Life in Africa. 1912.
- Dr. P. Chalmers Mitchell, F.R.S., Secretary Zool. Soc.
- H. A. Newton. A History of Wonderful Animals. 8th Ed. 1818.
Mills. Natural History of Mammals. 1812.
Mills. Natural History of 48 Birds. 1812.
(The above three volumes are from the nursery books of the late Ornithologist, Prof. Alfred Newton.)
- W. T. Page. Page. Aviaries and Aviary Life.
- E. A. Porter. Cornil et Ranvier. Manuel d'Histologie Pathologique. 1869.
Deyrolle. Nouveau Guide de l'Amateur d'Insectes. 1859.
Harris. The English Lepidoptera. 1775.
Jermyns. The Butterfly Collector's Vade Mecum. 1827.
Lotcutt. Handbook of the Microscope. 1859.
Mayo. Lessons on Shells. 1846.
Mühlig. Welche Säugethiere und Vögel find der Landwirthschaft, Wald und Gartencultur schädlich oder nützlich? 1875.
Ord. Notes on Comparative Anatomy. 1871.
Rennie. Alphabet of Zoology. 1833.
Salisbury. Hints to Proprietors of Orchards. 1816.
Tyrrer. Taxidermy made easy. 1844.
Walker. Catalogue of Insects presented to Highgate School by the Rev. F. A. Walker. 1878.
- Max Weber. "Siboga" Expeditie Monographs. Parts lx., lxii.

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

- Bütschli (O.). Untersuchungen über Strukturen. Text and Atlas. 8vo. Leipzig, 1898.
- Clarke (W. E.). Studies in Bird Migration. 2 vols. 8vo. London, 1912.
- Dendy (A.). Outlines of Evolutionary Biology. 8vo. London, 1912.
- Dombrowski (R. R. v.). Ornis Romaniae. 8vo. Bukarest, 1912.
- Fitzsimons (F. W.). The Snakes of South Africa. 8vo. London, 1912.
- Fowler (G. H.). Science of the Sea. Edited by. 8vo. London, 1912.
- Hartert (E.) and Others. Handlist of British Birds. 8vo. London, 1912.
- Horsburgh (B.). Game birds and Water-fowl of South Africa. 8vo. London, 1912.
- Houssay (F.). Forme, Puissance et Stabilité des Poissons. 8vo. Paris, 1912.
- Kennion, (R. L.). By Mountain, Lake, and Plain, being Sketches of Sport in Eastern Persia. 8vo. London, 1911.
- Kingsley, (J. S.). Comparative Anatomy of Vertebrates. 8vo. Philadelphia, 1912.
- Knowlton (F. H.). Birds of the World. 8vo. Westminster, 1909.
- Kobelt (W.). Die geographische Verbreitung der Mollusken in dem palaearktischen Gebiet. 8vo. Wiesbaden, 1904.
- Koenig (A.). Avifauna Spitzbergensis. 4to. Bonn, 1911.
- Loisel (G.). Histoire des Ménageries de l'Antiquité à nos Jours. 3 vols. 8vo. Paris, 1912.
- Lucas (A. H. S.), and Le Souef (W. H. D.). The Birds of Australia. 8vo. Melbourne, 1911.
- Minchin (E. A.). An Introduction to the Study of the Protozoa. 8vo. London, 1912.
- Murray (J.) and Hjort (J.). The Depths of the Ocean. 8vo. London, 1912.
- Patten (W.). The Evolution of the Vertebrates and their Kin. 8vo. Philadelphia, 1912.
- Ross (H.). Die Pflanzengallen (Cecidien) Mittel- und Nord-europas. 8vo. Jena, 1911.
- Sclater (W. L.). A History of the Birds of Colorado. 8vo. London, 1912.
- Verity (R.). Rhopalocera Palaeartica. Folio. Florence, 1905-1911.
- Wheeler (W. M.). Ants: Their Structure, Development and Behavior. 8vo. New York, 1910.
- Wollaston (A. F. R.). Pygmies and Papuans. 8vo. London, 1912.

The following is a list of new periodicals and zoological works in course of publication, of which parts were purchased for the first time in 1912:—

Austral Avian Record.
 Deuxieme Expédition Antarctique Française, 1908-1910.
 Journal of the East Africa and Uganda Natural History Society.
 Messenger Ornithologique, Ornithologische Mitteilungen.
 Revue Française d'Ornithologie.

Parts of publications have been received from the following Societies, Institutions and Editors, for which the Council desire herewith to return thanks.

AFRICA.

Cape Town: Royal Society of S. Africa.
 " " S. African Association for the Advancement of
 Science.
 " " S. African Museum.
 Giza: Zoological Gardens.
 Grahamstown: Albany Museum.
 Pretoria: S. African Ornithologists' Union.
 " Transvaal Museum.

AMERICA (North).

Berkeley: University of California.
 Boston: American Academy of Arts and Sciences.
 " Society of Natural History.
 Brooklyn: Institute of Arts and Sciences.
 California: Leland Stanford Junior University.
 Cambridge, Mass.: Museum of Comparative Zoology, Harvard
 College.
 Chicago: Field Museum of Natural History.
 Colorado Springs: University of Colorado.
 Halifax: Nova Scotian Institute of Science.
 Massachusetts: Tuft's College.
 Montreal: Royal Society of Canada.
 New Haven: "American Journal of Science."
 New York: American Museum of Natural History.
 " " New York Academy of Sciences.
 " " Zoological Society.
 Ottawa: Geological Survey of Canada.
 Philadelphia: Academy of Natural Sciences.
 " American Entomological Society.
 " American Philosophical Society.
 " University of Pennsylvania.
 Pittsburgh: Carnegie Museum.
 San Francisco: California Academy of Sciences.
 Toronto: University of Toronto.
 Urbana: Illinois State Laboratory of Natural History.

- Washington : Station of Experimental Evolution, Carnegie Institute.
 " Department of Commerce and Labor, Bureau of Fisheries.
 " Smithsonian Institute.
 " United States National Museum.
 " United States Geological Survey.
 " United States Department of Agriculture.
 " Washington Academy of Sciences.

AMERICA (South).

- Buenos Aires : Museo Nacional.
 Demerara : R. Agricultural and Commercial Society of British Guiana.
 Santiago : Museo Nacional.

AUSTRALIA.

- Adelaide : Royal Society of South Australia.
 Brisbane : Queensland Museum.
 Melbourne : Australian Ornithologists' Union.
 " Royal Society of Victoria.
 Perth : West Australian Museum.
 Sydney : Australian Museum.
 " Department of Trade and Customs.
 " Linnean Society of New South Wales.
 " Royal Society of New South Wales.
 Tasmania : Royal Society.

AUSTRIA-HUNGARY.

- Budapest : Ungarisches National Museum.
 " Königlich Ungarische Ornithologische Zentrale.
 Cracow : l'Academie des Sciences.
 Vienna : K.K. Akademie der Wissenschaften.
 " K.K. Zoologisch-Botanischen Gesellschaft.

BELGIUM.

- Brussels : l'Académie Royale des Sciences, &c., de Belgique.
 " Congrès International d'Entomologie.
 " Musée Royale d'Histoire Naturelle de Belgique.
 " Société Belge de géologie.
 " Société entomologique de Belgique.
 " Société Royale Zoologique et Malacologique de Belgique.

CHINA.

- Shanghai : R. Asiatic Society, North China Branch.

DENMARK.

- Copenhagen : Conseil permanent international pour l'exploration de la mer.
 „ Kommissionen for Havundersøgelser.
 „ Musée Zoologique.
 „ Naturhistoriske Forening.
 „ Kongelige Danske Videnskabernes Selskab.

EAST INDIES.

- Sarawak : Sarawak Museum.

FRANCE.

- Boulogne-sur-mer : Station Aquicole.
 Caen : Société Linnéenne de Normandie.
 Concarneau : Laboratoire de Zoologie et de Physiologie Maritime.
 Lyon : Société d'Agriculture.
 Monaco : l'Institut océanographique.
 Paris : Muséum d'Histoire Naturelle.
 „ Société entomologique de France.
 „ Société Philomathique.
 „ Société Zoologique de France.

GERMANY.

- Berlin : Königliche Akademie der Wissenschaften.
 „ Gesellschaft naturforschender Freunde.
 Bonn : Naturhistorischer Verein der preussischen Rheinlande und Westfalens.
 Frankfurt-on-Main : Senckenbergische naturforschende Gesellschaft.
 Freiburg : Naturforschende Gesellschaft.
 Göttingen : Königliche Gesellschaft der Wissenschaften.
 Halle : Kaiserliche Leopoldinisch-Carolinische Akademie der Naturforscher.
 „ Naturforschende Gesellschaft.
 Jena : Medizinische-naturwissenschaftliche Gesellschaft.
 Kiel : Königliche Biologische Anstalt auf Helgoland.
 Magdeburg : Museum für Natur-und Heimatkunde.
 Munich : Königliche Bayerische Akademie der Wissenschaften.
 Münster : Westfälischer Provinzialverein für Wissenschaft und Kunst.
 Württemberg : Verein für vaterländische Naturkunde.

GREAT BRITAIN and IRELAND.

- Cambridge : Philosophical Society.
 Dublin : Royal Dublin Society.
 „ Royal Irish Academy.
 Edinburgh : Fishery Board for Scotland.
 „ Royal Physical Society.
 „ Royal Society.
 Hertford : Natural History Society of Hertford.

- Liverpool : University of.
 London : "The Athenæum."
 " The Agricultural Society.
 " British Association for the Advancement of Science.
 " British Ornithologists' Club.
 " British Ornithologists' Union.
 " Entomological Society.
 " The Foreign Bird Club.
 " Geological Society.
 " Linnean Society.
 " "Nature."
 " Royal Agricultural Society.
 " Royal Botanic Gardens, Kew.
 " Royal Geographical Society.
 " Royal Institution of Great Britain.
 " Royal Society.
 " Royal United Service Institution.
 " Selborne Society.
 " South London Entomological and Natural History
 Society.
 Manchester : Literary and Philosophical Society.
 " Museum, Owen's College.
 Plymouth : Marine Biological Association.

HOLLAND.

- Amsterdam : Koninklijke Akademie van Wetenschappen.
 Haarlem : Société Hollandaise des Sciences.
 The Hague : Nederlandsche Entomologische Vereeniging.
 Leyden : Museum of Natural History.

INDIA AND CEYLON.

- Bombay : Bombay Natural History Society.
 Calcutta : Asiatic Society of Bengal.
 " Department of Agriculture in India.
 " Geological Survey of India.
 " Indian Museum.
 Colombo : Asiatic Society, Ceylon Branch.
 " Colombo Museum.
 " Marine Biological Laboratory of Ceylon.

ITALY.

- Florence : Biblioteca Nazionale Centrale.
 Milan : Società Italiana di scienze naturali.
 Naples : Zoological Station.
 Rome : R. Accademia dei Lincei.
 Turin : R. Accademia della scienze.

JAPAN.

- Tokyo : Imperial University.

MALAY STATES.

- Kuala Lumpur : Federated Malay States Museum.

NEW ZEALAND.

Wellington : New Zealand Institute.

NORWAY.

Bergen : Bergen Museum.
Christiania : Videnskabs Selskabet.

ROUMANIA.

Jassy : Université de Jassy.

RUSSIA.

Dorpat : Naturforscher-Gesellschaft.
Helsingfors : Societas Scientiarum Fennica.
Moscow : Société Impériale des Naturalistes.
St. Petersburg : Societas Entomologica Rossica.
 L'Académie Impériale des Sciences.
Tiflis : "Kaukasisches Museum.

SPAIN.

Madrid : Real Academia de Ciencias.

SWEDEN.

Stockholm : Kongl. Svenska Vetenskaps-Akademien.

SWITZERLAND.

Geneva : Société de Physique et d'Histoire naturelle.
Lausanne : Société vaudoise des Sciences naturelles.
Neuchâtel : Société neuchâteloise des Sciences naturelles.
Zurich : Naturforschende Gesellschaft.

WEST INDIES.

Barbados : Agricultural Department for West Indies.

Donations, memoirs, and papers have also been received from :—Le Club Montanyenc, Barcelona ; Major G. E. H. Barrett-Hamilton ; Naturwissenschaftliche Gesellschaft, Bayreuth ; D. Bennett, Esq. ; Prof. H. Bingham ; R. Society for the Protection of Birds ; Prof. H. Blanc ; Dr. Jose del Peso Blanco ; J. A. S. Bucknill, Esq. ; Department of Agriculture, Canada ; A. H. Cocks, Esq. ; Secretary of State for Colonies ; Zoologiske Have ved Copenhagen ; J. Van Denburg, Esq. ; Zoologischer Garten, Dresden ; Department of Agriculture, Dutch East Indies ; Dr. D. G. Elliott ; Bureau of Productive Industry, Formosa ; W. W. Froggatt, Esq. ; R. J. L. Guppy, Esq. ; J. H. Gurney, Esq. ; Dr. C. G. Hewitt ; Herr R. Hørring ; Mons. C. Janet ; Rev. F. C. R. Jourdain ; Herr. H. F. E. Jungersen ; D. F. Laurie, Esq. ;

H. Maxwell Lefroy, Esq.; Rijks Ethnographische Museum, Leiden; Local Government Board; Dr. E. Lönnberg; Dr. A. T. Masterman; Prof. A. Meek; College of Agriculture, New Mexico; New South Wales Fisheries Department; New South Wales Naturalists' Club; Agricultural Experimental Station, New Jersey; Agricultural Experimental Station, New York; Tiergarten, Nürnberg; T. Parkin, Esq.; Dr. R. Pearl; Mons. G. G. Racovitza; The Rt. Hon. Sir G. Reid; Rhodesia Scientific Association; Miss G. Ricardo; Ministero di Agricoltura, Rome; Sarawak Museum; Mons. H. E. Sauvage; Dr. G. Schlesinger; Dr. P. L. Sclater; W. L. Sclater, Esq.; Scottish Microscopical Society; C. Davies Sherborn, Esq.; Dr. R. W. Shufeldt; Royal College of Surgeons; J. C. Thompson, Esq.; Board of Agriculture, Trinidad and Tobago; University College; National Museum of Wales; F. H. Waterhouse, Esq.; Wellington Zoological Society; Marine Biological Association, West of Scotland; Dr. W. Wolterstorff; Yale University.

PROSECTORIAL DEPARTMENT.

The work in the Department was carried on actively in 1912. The Prosector, whose report is annexed, was engaged chiefly on parasites obtained in the Gardens.

The Pathologist, who has also reported separately, made *post mortem* examinations of all the animals that died in the course of the year. Careful records of these examinations and specimens are preserved, and these, in course of time, will form an invaluable series of data for the study of comparative pathology. The Pathologist furnished useful practical information to the Curators and the Garden Committee.

The scheme for the systematic examination of parasites infesting animals in the collection, explained in the Report for 1910, has been acted upon throughout the year. The following papers dealing wholly or chiefly with parasitic material obtained at the Gardens have recently been published in the Society's Scientific "Proceedings":—

ROBERT T. LEIPER, D.Sc., M.B., F.Z.S.

A Demonstration of Nematode Parasites obtained from animals in the Zoological Gardens. (P.Z.S., 1911, p. 620.)

WILLIAM NICOLL, M.A., D.Sc., M.B., F.Z.S.

On Three new Trematodes from Reptiles. (Plates XXVII., XXVIII. P.Z.S., 1911, p. 677.)

H. G. PLIMMER, F.R.S., F.Z.S.

On the Blood-parasites found in Animals in the Zoological Gardens during the four years 1908-1911. (Plates XLIX-LV., P.Z.S., 1912, p. 406.)

F. E. BEDDARD, M.A., D.Sc., F.R.S., F.Z.S.

Contributions to the Anatomy and Systematic Arrangement of the Cestoidea.

No. III. On a new Genus of Tapeworms (*Otiditænia*) from the Bustard (*Eupodotis kori*). (Text-figs. 19-30, P.Z.S., 1912, p. 194.)

No. IV. On a species of *Inermicapsifer* from the Hyrax, and on the Genera *Zschokkeella*, *Thysanotænia* and *Hyracotænia*. (Text-figs. 72-83, P.Z.S., 1912, p. 576.)

No. V. On a new Genus (*Dasyurotænia*) from the Tasmanian Devil (*Dasyurus ursinus*), the type of a new Family. (Text-figs. 92-101, P.Z.S., 1912, p. 677.)

No. VI. On a Asexual Tapeworm from the Rodent (*Fiber zibethicus*), showing a new form of Asexual Propagation, and on the supposed Sexual Form. (Text-figs. 113-121, P.Z.S., 1912, p. 822.)

WILLIAM NICOLL, M.A., D.Sc., M.D., F.Z.S.

On two new Larval Trematodes from the Striped Snake (*Tropidonotus ordinatus sirtalis*). (Text-fig. 107, P.Z.S., 1912, p. 767.)

On two new Trematode Parasites from the Indian Cobra. (Text-fig. 122, p. 851.)

Statistical Note on the Worm Parasites collected from the Animals dying in the Zoological Gardens, from December, 1910, till April, 1912. (P.Z.S., 1912, p. 856.)

The Prosector of the Society; Mr. F. E. Beddard, M.A., D.Sc., F.R.S., reports as follows:—

“During the past year the whole of my time, with the exception of routine duties, has been devoted to the study of the Cestode worms collected from animals that have died in the menagerie, and to the care of the collection of these and other parasites kept in the laboratory.

“I have published four memoirs dealing with the Tapeworms during the year, and three other papers have been or will be immediately communicated to the Society. In these contributions to the structure of the group a number of new facts relating to the anatomy of the

group have been recorded for the first time, and a few new species and new genera have been defined. I have subjected to a careful examination some other forms upon which I shall doubtless be able to report to the Society later. In this way a considerable number of the entire collection of Tapeworms have been scrutinized; but many others at present await study and identification.

“Some necessary changes have been made among those who have undertaken to examine and report upon the other groups of parasites. Dr. Nicoll, on his appointment to an office in Australia, has been obliged to retire from the study of the Trematodes, and Miss Lebour has undertaken this group of worms. Mr. Coventry, on accepting the curatorship of the Bute Museum, has handed over the insect parasites to Mr. Bruce F. Cummings of the Natural History Museum.”

The Society's Pathologist, Mr. H. G. Plimmer, F.R.S., reports as follows:—

“During the past year 1,539 animals have died, and detailed records have been kept of the pathological conditions. A paper dealing analytically with the causes of death, and with the blood-parasites found in the Gardens, was read at the Scientific Meeting on Feb. 4th, 1913. This memoir will be published in full in the Scientific Proceedings.

During the year Mr. J. G. Turner has been working in the Laboratory on the pathology of the teeth, and Dr. Lucas on the pathology of kidneys of birds. Pathological specimens have been sent to the Museum of the Royal College of Surgeons.”

THE GARDENS.

THE KING'S NEPAL COLLECTION.

THE FEDERATED MALAY STATES COLLECTION.

The chief events for the year were the reception and exhibition of two interesting collections of Asiatic animals, respectively from Nepal and the Federated Malay States. The ground formerly occupied by the Prosectorium, the Gardeners' Department, Dung-pound, Swine and Rodent

Sheds, was cleared and laid out temporarily for the purpose of this exhibition, which added many interesting animals to the collection and attracted many visitors.

As was announced in the Report for 1911, H.M. the King on his State Visit to India received a fine collection of Nepalese animals presented to him by H.H. the Maharajah, Sir Chandra Shum Shere Jung, G.C.S.I. The King graciously invited the Zoological Society to receive and arrange for the exhibition of the animals, and H.G. the Duke of Bedford, K.G., President of the Society, repeated his former generosity and paid the cost of transport to this country. The Committee of the Zoological Gardens at Calcutta took charge of the animals on their arrival at Calcutta, and Mr. B. Basu, C.M.Z.S., Superintendent of the Gardens, came home in charge of them.

The collection, on board the British India Company's S.S. *Afghanistan*, reached the Royal Albert Docks on May 20th and arrived at the Gardens before 8 p.m. The animals were at once installed, as all arrangements had been made for them, and they were on view to visitors on May 21st. The King and Queen and Princess Mary visited the Gardens on the afternoon of May 31st to inspect the animals. By the King's wish the visit was strictly private and no special preparations were made.

LIST OF MAMMALS AND BIRDS FROM NEPAL,

PRESENTED BY

H.M. KING GEORGE V. (PATRON AND FELLOW OF THE SOCIETY), AND EXHIBITED AS A SPECIAL COLLECTION.

Mammalia.

- 3 Leopards ♂ ♂ ♀ (*Felis pardus*).
- 1 Snow Leopard (*Felis uncia*).
- 2 Common Palm-Civets (*Paradoxurus niger*).
- 1 Grey Mongoose (*Mungos mungo*).
- 2 Spotted Mongooses (*Mungos auropunctatus*).
- 6 Tibetan Mastiffs (*Canis familiaris*) ♂ ♀ and four pups.
- 1 Woolly Wolf (*Canis laniger*).
- 1 Himalayan Fox (*Vulpes vulpes montanus*).
- 4 Himalayan Bears (*Ursus tibetanus*).

- 1 Indian Rhinoceros ♂ (*Rhinoceros unicornis*).
- 1 Kiang ♀ (*Equus kiang*).
- 1 Zebu ♀ (*Bos indicus*).
- 1 Indian Antelope ♀ (*Antelope cervicapra*).
- 1 Four-horned Antelope ♂ (*Tetraceros quadricornis*).
- 2 Nylghaies ♂ ♀ (*Boselaphus tragocamelus*).
- 1 Butia Goat (*Capra hircus*).
- 1 Tahr ♀ (*Hemitragus jemlaicus*).
- 1 Burrhel Sheep ♂ (*Ovis nahura*).
- 1 One-horned Ram (*Ovis aries*).
- 1 Hunia Ram (*Ovis aries*).
- 4 Barwal Rams (*Ovis aries*).
- 1 Musk Deer (*Moschus moschiferus*).
- 1 Indian Muntjac ♂ (*Cervulus muntjac*) (albino).
- 1 Wallich's Deer (*Cervus wallichii*) ♂.
- 2 Sambur Deer ♂ ♀ (*Cervus aristotelis*).
- 2 Barasingha Deer ♂ ♀ (*Cervus duvaucelli*).
- 1 Axis Deer (*Cervus axis*).
- 3 Hog Deer (*Cervus porcinus*).

Aves.

- 2 Orange-headed Ground Thrushes (*Geocichla citrina*).
- 2 Indian Dial-birds (*Copsychus saularis*).
- 1 Ringed-necked Parrakeet (*Palæornis torquata*).
- 1 Banded Parrakeet (*Palæornis fasciata*).
- 1 Golden Eagle (*Aquila chrysaëtus*).
- 2 Wedge-tailed Fruit-Pigeons (*Sphenocercus sphenurus*).
- 1 Chukar Partridge (*Caccabis chukar*).
- 2 Cheer Pheasants (*Catreus wallichii*).
- 2 Black-backed Kaleege Pheasants (*Gennæus melanotus*).
- 2 Himalayan Monauls (*Lophophorus impeyanus*).
- 1 Common Peafowl (*Pavo cristatus*).

As was also announced in the Report for 1911, the Government of the Federated Malay States offered to the Society, in the end of 1911, and the Council gratefully accepted, a collection of the remarkable and interesting fauna of the Malay States, on the condition that it should be transported to London by the Society and exhibited as a special collection during the season of 1912. A keeper was sent to Port Swettenham to take charge of the animals on the voyage to London, and the collection arrived in the Thames on June 23rd, by the

S.S. *Machaon*, later than had been expected, as on account of the dock strike, the vessel had to be sent first to Rotterdam and then to Antwerp. The Society, besides its great indebtedness to the Government of the Federated Malay States owes special thanks to Mr. H. C. Robinson, C.M.Z.S., Director of the Federal Malay States Museum at Kuala Lumpur, who received and forwarded the animals.

LIST OF MALAYAN ANIMALS EXHIBITED AS A SPECIAL COLLECTION, 1912.

Mammalia.

Presented by the GOVERNMENT OF THE FEDERATED MALAY STATES.

- 1 Siamang (*Symphalangus syndactylus*) ♀.
- 11 Pig-tailed Macaques (*Macacus nemestrinus*) 5 ♂, 6 ♀.
- 2 Slow Lories (*Nycticebus tardigradus*).
- 1 Tiger (*Felis tigris*) ♀.
- 1 Clouded Tiger (*Felis nebulosa*) ♂.
- 1 Large Indian Civet (*Viverra zibetha*) ♂.
- 2 Malayan Palm-Civets (*Paradoxurus hermaphroditus*) ♂ ♀.
- *1 Short-tailed Mongoose (*Mungos brachyurus*) ♂.
- 1 Bicoloured Squirrel (*Ratufa bicolor*) ♀.
- 2 Banded Squirrels (*Sciurus vittatus*) ♂ ♀.
- 2 Long-tailed Porcupines (*Hystrix longicauda*).
- 1 Indian Elephant (*Elephas indicus*) ♀.
- 2 Sambur Deer (*Cervus aristotelis*) ♂ ♀.
- 4 Javan Chevrotains (*Tragulus javanicus*).

By MR. D. HAMPSHIRE.

- 1 White-handed Gibbon (*Hylobates lar*).

By MR. E. L. HUSON.

- 1 Binturong (*Arctictis binturong*) ♂.

By MR. H. H. BANKS.

- 1 Malayan Bear (*Ursus malayanus*) ♀.

By MR. MUNGO PARK.

- 1 Malayan Fruit-Bat (*Pteropus malaccensis*) ♂.

By YAP LONG CHIN.

- 1 Long-tailed Porcupine (*Hystrix longicauda*).

Aves.

By the GOVERNMENT OF THE FEDERATED MALAY STATES.

- 19 Blue-crowned Hanging Parrakeets (*Loriculus galgulus*).
- 1 Malayan Fish-Owl (*Ketupa javanensis*).
- 4 Japanese Teal (*Nettion formosum*) ♂ ♂ ♀ ♀.
- 1 Parrot Fruit-Pigeon (*Osmotreron vernans*) ♀.
- 1 Tigrine Turtle-Dove (*Turtur tigrinus*).
- 1 Barred Dove (*Geopelia striata*).
- 8 Green-winged Doves (*Chalcophaps indica*).
- *10 Charlton's Tree Partridges (*Arboricola charltoni*).
- 2 Long-billed Francolins (*Rhizothera longirostris*).
- 2 Javan Peafowl (*Pavo muticus*) ♂ ♀.
- *1 Water-Cock (*Gallicrex cinerea*).
- 2 Red Jungle-fowl (*Gallus gallus*) ♂ ♀.

By MR. MUNGO PARK.

- 3 Crested Wood Partridges (*Rollulus roulroul*).
- 2 Rufous-tailed Fireback Pheasants (*Acomus erythrophthalmus*) ♂ ♀.

By MR. A. L. JARVIS.

- 2 Argus Pheasants (*Argusianus argus*) ♂ ♀.
- 1 Crested Peacock-Pheasant (*Polyplectrum malaccense*) ♀.
- 2 Rufous-tailed Fireback Pheasants (*Acomus erythrophthalmus*) ♂ ♀.

By MR. E. J. GLEESON.

- 2 Red Jungle-fowl (*Gallus gallus*) ♂ ♀.

Reptilia.

By the GOVERNMENT OF THE FEDERATED MALAY STATES.

- 1 Porose Crocodile (*Crocodilus porosus*).
- 4 Amboina Box-Tortoises (*Cyclemys amboinensis*).
- 3 Oldham's Terrapins (*Cyclemys dhor*).
- 2 Spinose Land-Emys (*Geomyda spinosa*).
- 4 Phayre's Tortoises (*Testudo emys*).
- *2 Elephant-Snakes (*Acrochordus javanicus*).
- *1 Bowring's Gecko (*Hemidactylus bowringii*).
- *1 Bridled Gecko (*Hemidactylus frenatus*).
- *1 Leschenault's Gecko (*Hemidactylus leschenaultii*).

By H. H. The SULTAN OF PERAK.

- 6 Baska Water-Tortoises (*Batagur baska*).

By Mrs. TATE.

- 1 Reticulated Python (*Python reticulatus*).

* New to the Collection.

NEW WORKS AND REPAIRS.

GENERAL.

The footpaths have been repaired and tarred and a large number of minor works carried out throughout the Gardens.

NORTH GARDEN.

NEW BRUSH TURKEYS' ENCLOSURE.—The sloping bank at the western end of this strip of the Gardens has been enclosed with a high wire fence to form a new enclosure for the Brush Turkeys.

PHEASANTRY.—The runs attached to a block of sheds between the Lemur House and Northern Pheasantry have been wired, and the sheds themselves cleaned, repaired and limewashed to provide additional accommodation for the Society's fine stock of Pheasants.

THE OWLS' CAGES have been repaired, and the floors of the outer flights cemented and drained.

CRANES' PADDOCKS.—Much of the wire-work of the Cranes' enclosures has been renewed.

THE GARDENERS' DEPARTMENT has been removed to a site at the eastern end of this garden, new greenhouses, frames, and a modern heating plant being installed.

THE MOUSE HOUSE has been thoroughly repaired and painted and adapted for the Shoe-bill.

MIDDLE GARDEN.

ZEBRA, GIRAFFE AND HIPPOPOTAMUS HOUSES.—The heating apparatus at the Zebra, Giraffe and Hippopotamus houses has been overhauled, and the pipes re-arranged with a view to greater efficiency, and all external wood and ironwork have been painted.

THE NEW BRIDGE over the Canal has been painted.

THE HYRAX CAGES AND BEAVERS' POND.—The Hyrax cages have been rewired and considerably enlarged, the Beavers' enclosure divided with a strong fence, and a new roof with a door formed to the shelter.

PUMPING STATION.—The gas-engine which works the pump from the well has been thoroughly repaired, and several important parts renewed.

SOUTH GARDEN.

THE OLD PROSECTORIAL BUILDINGS, THE GREENHOUSES, AND THE SWINE AND RODENTS SHEDS were cleared away, and on the site temporary buildings and enclosures were erected for the housing of the King's Nepal Collection and the Malay States Collection.

NEW SWINE SHEDS.—New sheds and runs for the swine have been formed in one of the Park Paddocks.

THE MONKEY HOUSE has been thoroughly repaired and painted externally.

THE GREAT AVIARY.—The wire-work of this has been repaired and painted, an arrangement of small-mesh wire-netting and curved zinc formed around the outside to exclude rats; some of the old ponds which were unnecessary have been filled up, and the ground considerably raised.

THE WADERS' AVIARY has been entirely re-wired, and additional supports formed to the roof.

FELLOWS' TEA PAVILION.—The space in front of this has been considerably enlarged by throwing back the fence, thus giving much more space to the Fellows and their friends on crowded days.

KITES' AVIARY.—The floors of the outer flights have been cemented and drained.

DIVING BIRDS' HOUSE.—The old heating boiler being worn out, a new one of more modern type has been installed.

THE SUMMER AVIARY.—A new aviary formed of small-mesh wire-netting has been erected on the site of the old paddocks situated at the western end of the Ostrich House. Numbers of birds nested there successfully during the past summer, many belonging to species which had never before bred in the Gardens.

STORK AND OSTRICH HOUSE.—Most of the floors in this house being defective, were taken up and re-laid with wood blocks on concrete.

LION HOUSE.—All the dens have been cleaned and painted with special enamel paint, and new sleeping-platforms have been formed throughout.

SMALL BIRDS' HOUSE.—Sun-blinds have been made to fix over all the sky-lights in hot weather.

SEA LION POND.—The fence has been cleaned and tar-varnished, and the wire on the lower portion renewed.

GNUS' Paddock.—This paddock has been divided into four paddocks with strong fences, and a walk with floral borders formed down the centre connecting with a side-door of the Antelope House.

APE HOUSE.—The wire-work of one of the large cages has been replaced by strong iron bars.

WESTERN AVIARY.—The wire fronts of the compartments at the east end of this aviary have been renewed.

THREE ISLAND POND.—The drain from this pond, being defective, has been re-laid.

REMOVAL OF THE DUNG POUND.—This unsightly but necessary erection was removed from the old site and re-erected in a less conspicuous position, being effectually screened from the Gardens by a high wall, and from the roadway by a lattice fence and privet hedge. The expense of this alteration was very generously defrayed by the President.

GARDENING DEPARTMENT.—Under the capable superintendence of Mr. John Young, the Society's Head Gardener, the floral decoration of the Gardens has maintained its high character. Although some of the existing flower-beds had to be occupied for other purposes, a large number of new beds were made, and the provision of narrow floral borders surrounding the enclosures was greatly increased, with the double object of adding to the beauty of the Gardens, and keeping visitors from too close an approach to railings guarding horned animals. Many parts of the Gardens formerly occupied by unsightly bushes were cleared and planted with flowers, so that the number of bedding-out plants and the area occupied by them was made larger than it has ever been before.

Mr. Lewis Medland, F.Z.S., kindly presented a large collection of plants for bedding-out.

The new greenhouses have proved most satisfactory.

NEW WORKS IN PROGRESS.

THE MAPPIN TERRACES.

The Council has pleasure in announcing that it accepted the munificent offer made by Mr. J. Newton Mappin, the head of the firm of Mappin & Webb., Ltd., as conveyed to the Secretary in the following letter:—

158-162, OXFORD STREET, W.

December 14th, 1912.

Dear Dr. CHALMERS MITCHELL,

I have pleasure in asking you to inform the Council that I offer to present to the Society an installation for the panoramic display of wild animals as nearly as possible on the lines of the sketches and plans you showed me. I believe that such an installation would be of great benefit to the community, and would be an important step in your successful efforts to make the London Zoological Gardens the best in the world from the point of view of the animals themselves and the visitors.

If my offer be accepted it would be very agreeable to me if the Council were to arrange that it be associated with some special benefit to London shop assistants, as for instance, that they be admitted to the Gardens at the rate of sixpence instead of a shilling on an afternoon each week convenient to them.

On hearing from you that the Council has accepted my proposal and undertakes to proceed with the installation of the panorama immediately, and to complete it within twelve months, I shall have much pleasure in defraying the cost of the work as it proceeds, and will arrange with my bankers for them to pay from time to time on certificates signed by you and the architects. I do not wish the cost of the installation to be made known, but you and Mr. Joass know the limit to which I am prepared to go.

I propose to leave the details to your experience so far as the arrangements for the animals go, and to Mr. Joass with regard to architectural work; but I assume that the scheme will be carried out on the general lines of the sketches you showed me, except that I should prefer that money should not be spent on the tea-pavilion until the best possible provision has been made for the animals.

Yours very truly,
(Signed) J. NEWTON MAPPIN.

The Council desire to associate Mr. Mappin's name with this great gift and propose to call the installation "The Mappin Terraces." They hope also to devise a convenient way of complying with Mr. Mappin's wish regarding the assistants in London shops.

For some time the Council had wished to develop on permanent lines the site temporarily occupied last summer by the Nepal and Malay Collections, but had been prevented by lack of funds. A beginning was made some years ago by the removal of the Prosectorial Department to new quarters at the Reptile House. Last year the Gardeners' Department was removed to the north bank of the canal, the cost being defrayed out of the special Garden Improvement Fund. A very generous donation from the President made it possible to complete clearing the ground.

The Mappin Terraces will occupy an area shaped like the quadrant of a circle with a tea-pavilion opening on to a wide terrace for visitors on the low ground at the apex, so as to afford a general view of the successive tiers of enclosures for animals. The outermost and highest portion will be formed by a crescent-shaped curve of rock-work rising into four peaks, and suitable for goats, sheep and chamois. At the foot of this there will be a terrace for visitors, giving on the one side a near view of the goat-hills, and on the other a view from above, through openings in the masonry, of the lower crescent for bears. For the bears six large enclosures are provided, each containing a pond, rock-work and shelter caves, and separated from the second terrace for visitors by a deep ditch across which the animals will be visible without the intervention of bars. Below the bears' dens will be placed four large paddocks for ruminants such as deer, and a large pond and lawn. These also will be visible to visitors on the upper terraces as well as from the tea terrace below.

The rock-work is to be constructed of ferro-concrete, and the hollow interior, in addition to the accommodation for animals, will provide space for many of the service departments scattered through the Gardens.

The hills will be modelled to represent natural scenery; the enclosures for bears and ruminants and the two high terraces for visitors will represent massive Roman architecture such as might have been constructed on the side of a hill; the lower and more formal portions, the steps

giving access to the terraces, and the tea-pavilion will recall Italian renaissance designs. The actual designs approved by Mr. Mappin were prepared by Messrs. John Belcher, R.A., and J. J. Joass from rough sketch plans supplied by the Secretary.

The orientation of the terraces will afford the public in Regent's Park a full although distant view of the animals, but the site and dimensions have been arranged so that even in winter, when there is no foliage, it is doubtful if even the extreme tops of the rock-work will be visible from any of the residential houses in the neighbourhood.

THE CAIRD INSECT HOUSE.

The Council have also the great pleasure to announce that they have accepted the generous offer by Sir James Key Caird, Bt., conveyed in the following letter to the Secretary:—

ROSEANGLE,

DUNDEE,

December 23rd, 1912.

It is with much pleasure that I enclose £1,000, and beg of you to use it in building an additional Insect-house in the Zoological Gardens.

If you let this be known it may encourage others to have improved houses such as you explained to me, having shaded passages.

I am,
Yours very truly,

(Signed) J. K. CAIRD.

The Insect House will be constructed on the site now occupied by the Thar's enclosure, and will consist of an oblong building with a central shaded passage for visitors, and on each side a row of cases or tanks for terrestrial and aquatic insects, illuminated from above as in an aquarium.

NEW HOUSE FOR SMALL MAMMALS.

The Council have arranged to proceed with the erection of a new house for small mammals on the site hitherto occupied by the Brush-Turkey's enclosure. It will be constructed on the same plan as the Caird Insect-house, but will have numerous outside cages.

NEW LAVATORIES.

The lavatory accommodation is still defective, and it has been arranged to construct new lavatories for ladies and gentlemen, both in connection with the Caird Insect House and the Mappin Terraces.

REFRESHMENT DEPARTMENT.

As explained in the Report for 1911, the agreement with Messrs. Spiers and Pond ended on Dec. 31, 1912, and Mr. D. Ridley, of Sandown Park, was given a contract for the catering at the Gardens, of one year's duration. The valuation of the plant and fixtures was completed before the end of the year, and the transference to the new management was made without any break. The terms of the contract leave the Society with very full control, and every effort is to be made to improve the catering.

A full license has been granted to the Society on the condition that no spirits are sold after sunset, or anywhere except with meals in the main Refreshment Rooms, or to the Keepers and Employees.

STAFF AT THE GARDENS.

The following Table shows the staff (Menagerie) as it existed at December 31st, 1912 :—

Superintendent and Curator of Mammals.

Inspector of Works and Curator of Birds.

Curator of Reptiles.

Prosector.

Pathologist.

Assistant Superintendent.

10 Head Keepers of the following Sections (distinguished by gold badges).

Apes and Monkeys.

Large Carnivora.

Small Mammals.

Ungulates in South Garden.

Elephants and Rhinoceroses.

Giraffes, Tapirs and Hippos.

Equine Animals.

Water-Fowl.

Ostriches, Cranes, and
Game-birds.

Parrots and Birds of Prey.

Mr. E. G. Boulenger, F.Z.S., who was appointed Curator of Reptiles in June, 1911, on a year's trial, was placed on the permanent staff.

There was one change in the list of Head-keepers. W. Sutton of the Small Bird's Department, being made a Gate-keeper in place of G. Perkins, retired on a pension. J. Bailey, Junior Keeper, was appointed a Senior Keeper with the duties of Head Keeper of Small Birds.

5 Senior Keepers (distinguished by silver badges).

23 Junior Keepers (distinguished by green badges).

29 Helpers.	1 Dungman.
1 Stableman.	2 Stokers.
1 Storekeeper.	2 Night-Watchmen.
1 Assistant Storekeeper.	3 Gate-keepers.
1 Engine-driver.	1 Time-keeper.
2 Butchers.	1 Housekeeper.

Works.

1 Clerk of the Works.	2 Wireworkers.
3 Carpenters.	1 Networker.
1 Bricklayer.	4 Painters (average).
1 Smith.	11 Labourers.

The permanent staff, reduced in 1907, has been kept as low as possible, additional men being taken on for special jobs as required.

Gardens.

1 Head Gardener.	14 Garden Labourers.
1 Propagator.	1 Boy.
1 Assistant Propagator.	

Prosectorium.

1 Assistant. 2 Boys.

VISITORS.

The total number of visitors to the Gardens, during the past year, was 1,012,898, an increase of 120,276 as compared with the total for the previous year, and an increase of 97,134 over that of the previous highest total recorded in 1876. To commemorate the occasion, a free admission for 1913 was granted to Mr. C. P. Raikes, of Boscombe, Watford, who was the millionth visitor to pass through the turnstiles in the year.

The satisfactory increase of visitors was due partly to the interest in H.M. the King's Nepal Collection, and the Malay Collection presented by the Government of the Federated Malay States; but it is hoped that it is also caused by the greater attractiveness of the Gardens. The appended table shows that the increase was spread over every important class of visitors. It was greatest in the case of those paying the shilling rate, but far more green tickets were also used, and the numbers of children from rate-aided schools, which had fallen off in 1911, surpassed the level of 1910.

The following table summarises the different classes of visitors to the Gardens during the past two years:—

	1911.	1912.	Comparison.
Fellows and Companions (Signatures)	40,561	44,354	Inc. 3,793
Do. Saturday orders	5,577	4,841	Dec. 736
Do. Sunday orders	37,029	36,843	Dec. 186
Do. Green tickets	143,326	167,003	Inc. 23,677
Do. Buff tickets (Children)	22,122	28,168	Inc. 6,046
Do. Ivory tickets	1,052	988	Dec. 64
Honorary Admission tickets	1,746	1,736	Dec. 10
Red tickets (Complimentary)	1,552	1,525	Dec. 27
Artists' tickets	278	648	Inc. 370
Excursion tickets (reduced price)	6,005	9,466	Inc. 3,461
Single tickets sold in office at ordinary price	777	1,006	Inc. 229
Paying visitors at 1s. each	224,496	267,658	Inc. 43,162
Do. do. Mondays and other days at 6d. each	306,241	316,515	Inc. 10,274
Do. do. Children at 6d. each	59,802	74,073	Inc. 14,271
Carried forward ...	850,564	954,824	Net Inc. 104,260

	1911.	1912.	Comparison.
Brought forward ...	850,564	954,824	Net Inc. 104,260
Staff	231	323	Inc. 92
Children from rate-aided Schools ...	26,379	38,724	Inc. 12,345
Police	9,791	10,675	Inc. 884
Railway tickets	2,672	3,815	Inc. 1,143
London Teachers Association ...	2,985	4,537	Inc. 1,552
	<u>892,622</u>	<u>1,012,898</u>	<u>Net Inc. 120,276</u>

NUMBER OF VISITORS ON SUNDAYS.

In the Report for 1911 the Council called attention to the continuous increase in the number of visitors on Sundays. In the year 1911, although there was a decrease in the total number of visitors for the year as compared with 1910, there was an increase of 4,843 in the Sunday visitors. In 1912 the increase in the numbers of Sunday visitors over 1911 was 20,578, and in that of week-day visitors 99,698, so that the attendance on Sundays is increasing very rapidly both absolutely and relatively to the total increase. Fellows themselves naturally select fine Sundays for their visits, and, as most of the Sunday tickets are undated, the same course is taken by others, with the result that the pressure on Sunday afternoons in good weather continues to increase. The Council regard it as urgent in the interests of the Society to try to meet this position, and with this object have made changes in the tickets described on p. 41 under the heading "Fellows' Tickets."

NUMBER OF VISITORS ON BANK HOLIDAYS.

The total number of visitors admitted upon the three principal Bank-Holidays in 1912 amounted to 114,950, an increase of 19,490 as compared with the corresponding holidays of the previous year.

	1911.	1912.
Easter Monday...	43,499 (Very fine)	42,877 (Fine)
Whit-Monday ...	27,437 (Very fine)	39,075 (Fine)
First Monday in August	24,524 (Very hot)	32,998 (Fine)

Number of Visitors to the Gardens, 1828-1912.

Year.	Number.	Year.	Number.
1828 ...	98,605	1873 ...	713,046
1829 ...	189,913	1874 ...	706,907
1830 ...	223,420	1875 ...	699,918
1831 ...	262,193	(c) 1876 ...	915,764
1832 ...	206,652	1877 ...	781,377
1833 ...	211,343	1878 ...	706,713
1834 ...	208,583	1879 ...	643,000
1835 ...	210,068	1880 ...	675,979
1836 ...	263,372	1881 ...	648,694
1837 ...	173,778	(d) 1882 ...	849,776
1838 ...	179,197	1883 ...	743,485
1839 ...	158,432	1884 ...	745,460
1840 ...	141,009	1885 ...	659,896
1841 ...	132,616	1886 ...	639,674
1842 ...	107,459	1887 ...	562,898
1843 ...	98,280	1888 ...	608,402
1844 ...	101,527	1889 ...	644,579
1845 ...	99,615	1890 ...	640,987
1846 ...	100,045	1891 ...	598,730
1847 ...	93,546	1892 ...	605,718
1848 ...	143,630	1893 ...	662,649
1849 ...	168,895	1894 ...	625,538
1850 ...	360,402	1895 ...	665,326
(a) 1851 ...	667,243	1896 ...	665,004
1852 ...	305,203	1897 ...	717,755
1853 ...	409,076	1898 ...	710,948
1854 ...	407,676	1899 ...	696,707
1855 ...	315,002	1900 ...	697,178
1856 ...	344,184	1901 ...	725,685
1857 ...	339,217	1902 ...	694,496
1858 ...	351,580	1903 ...	657,208
1859 ...	364,356	1904 ...	706,074
1860 ...	394,906	1905 ...	715,480
1861 ...	381,837	(e) 1906 ...	896,423
(b) 1862 ...	682,205	1907 ...	863,953
1863 ...	468,700	1908 ...	861,586
1864 ...	507,169	1909 ...	797,058
1865 ...	525,176	1910 ...	897,461
1866 ...	527,349	(f) 1911 ...	892,622
1867 ...	556,214	(g) 1912 ...	1,012,898
1868 ...	573,186	(c) Exhibition of H.M. King Edward's Indian Collection.	
1869 ...	572,848	(d) Departure of Elephant 'Jumbo.'	
1870 ...	573,004	(e) Exhibition of H.M. King George's Indian Collection.	
1871 ...	595,917	(f) Exhibition of H.M. King George's African Collection.	
1872 ...	648,088	(g) Exhibition of H.M. King George's Nepal Collection and Malay Animals.	

(a) Great Exhibition.
(b) International Exhibition.

FELLOWS' TICKETS.

There has been some misapprehension amongst Fellows as to the changes in the ticket regulations which came into force for the year 1913. It is the duty of the Council to regulate the personal access of Fellows to the Gardens, but such regulations and restrictions are subject to the approval of a General Meeting. It is also the duty of the Council to regulate the privileges of Fellows as to introducing visitors either personally or by signed orders, but this latter duty is not subject to the approval of a General Meeting. For some time the crowded state of the Gardens has been engaging the attention of the Council, and suggestions of the most diverse character have been made by various Fellows. The Council became convinced, however, that the value of Sunday privileges was being diminished to an extent that seriously affected the Society, as the day specially reserved for subscribers and their friends was becoming one of the least pleasant on which to see the animals. The chief cause was the increasing use of green tickets on Sundays.

As there were considerably over half a million outstanding but still valid green tickets in the hands of Fellows, the Council first considered the possibility of declaring these invalid after due warning had been given. As stated in the Report for 1911, however, it was decided that it would be impracticable to do this, but that, as a preliminary step, tickets issued for 1913 and subsequent years would be valid only for the year of issue. As the pressure is comparatively slight in the winter months, two months' grace was given, and the tickets of this year now bear the imprint that they will be valid until February 28th of the following year.

Further steps were considered, and it was decided to cancel the permission to take twenty green tickets in lieu of the Saturday Order-book, and that Fellows in future would be able to obtain;—twenty green tickets; a Sunday Order-book, or a second twenty green tickets in lieu of that book; and a Saturday Order-book, or twenty white tickets not valid on Sundays, in lieu of that book. For the convenience of Fellows these tickets were all perforated, so that each could be used for one adult or for two children.

The new regulations were announced and discussed at the General Meeting of the Society in June, 1912, and were explained in a circular issued on December 28th, 1912, with the supply of tickets for 1913.

The actual numbers posted on Dec. 28 were as follows:—

Saturday Order-books	208
Sunday Order-books	1,213
Green Cards (valid on Sundays or Week-days)	151,680
White Cards (valid only on Week-days)	82,600

Most Fellows have accepted the change without comment; a certain number have written warmly approving it; a few have urged that green tickets should be abolished completely; a certain number wrote complaining of the limitation of their privilege, but accepted the explanation; a few have protested vigorously and two have resigned. The Council have no object in making changes except to consult what appears to be the general interest of the Society, and trust that those Fellows who dislike the numerical reduction of their privileges will remember that the Fellowship will cease to be attractive and green tickets will cease to be worth giving away, unless visits to the Gardens on Sundays are more pleasant than on week-days.

EXCURSION AND SCHOOL TICKETS.

The reduced prices now in operation for the admission of Excursion and School parties are as follows:—

ADULTS.	CHILDREN UNDER 12 YEARS.
25 to 50 @ 10 <i>d.</i> each.	50 to 100 @ 5 <i>d.</i> each.
51 to 100 @ 9 <i>d.</i> each.	101 to 250 @ 4 <i>d.</i> each.
101 to 250 @ 8 <i>d.</i> each.	251 and upwards @ 3 <i>d.</i> each.
251 to 500 @ 7 <i>d.</i> each.	
501 and upwards @ 6 <i>d.</i> each.	

If the date fixed for the proposed visit to the Gardens should be found, through unforeseen circumstances, unsuitable, the tickets, upon being returned to the Office, may be endorsed for another day during the year of issue.

Special packets of School Excursion Tickets for the admission of 25 School Children (under 14 years of age) and one Teacher, may also be obtained for any fixed date (except Sunday) at the Society's Offices, at the reduced price of eleven shillings per packet.

Combined Admission and Tea Tickets can be obtained for 25 persons and upwards at the rate of 1/6 each for adults, and 1/- for children.

CHEAP ORDERS for the admission of any number from 25 upwards of the children of Council or Grant-aided Schools to the Society's Gardens may be had undated, for any day between the hours of 9.0 a.m. and 1.0 p.m. except Saturdays, Sundays and Mondays. The charge for an order to admit 25 Children with one or two Teachers is 3s., for an order for 50 Children with 2 Teachers 5s., and additional admissions may be obtained at the rate of Children 1d. each, Teachers 5d. each.

All applications for Tickets must be made to the Secretary at the Offices of the Society. Payment for admission at the reduced prices cannot be accepted at the turnstiles.

MOTOR SERVICE TO THE GARDENS.

The Council call the attention of Fellows to the Motor Bus Service (No. 74) which calls at the North Gate of the Gardens at intervals of five minutes, and connects with Camden Town, St. John's Wood Station, Paddington, Bayswater, Hammersmith and Barnes.

MENAGERIE.

Provisions.

The commissariat at the Gardens is of considerable interest. The following table gives the chief items of expenditure paid in 1911 and 1912:—

	1911.			1912.		
	£	s.	d.	£	s.	d.
Hay	653	2	2	909	9	6
Clover	400	17	3	645	7	8
Green-food and Chaff ...	254	9	4	332	11	6
Oats	379	19	9	574	6	0
Bran	71	8	0	84	16	0
Maize	65	9	0	68	7	3
Grain and Seeds	247	16	6	352	14	5
Fish (Sea)	494	7	3	517	10	3
„ (Freshwater)	118	2	10	126	12	4
Horses	491	13	8	755	11	5
Goats	106	14	8	134	2	0
Meat	76	1	0	58	6	2
Fowls' Heads	105	12	9	105	19	6
Milk	180	1	8	215	6	5
Fruit	523	10	8	496	7	2
Vegetables	183	10	6	217	7	2
Bread	131	17	2	136	16	5
Biscuit	223	17	6	217	13	6
Eggs	163	14	4	168	2	11
Food for Insectivorous Birds, &c.	118	1	8	104	6	4
Vermin	219	1	5	319	10	9
Miscellaneous	65	4	7	58	16	1
	<u>£5274</u>	<u>13</u>	<u>8</u>	<u>£6600</u>	<u>0</u>	<u>9</u>

Comparative return giving the Dry Fodder, Straw and Food-stuffs consumed in the Society's Gardens during the years 1911 and 1912:—

Description.	Quantity, 1911.	Quantity, 1912.
Hay	177 Loads	185 Loads.
Clover	88½ Loads	114 Loads.
Straw... ..	223½ Loads	219 Loads.
Chaff	36 Tons	31½ Tons.
Tares	13,584 Bundles	20,416 Bundles.
Oats	361½ Quarters	491½ Quarters.
Bran	248 Quarters	246 Quarters.
Wheat	384 Bushels	426 Bushels.
Barley	144 Bushels	176 Bushels.
Maize... ..	376 Bushels	348 Bushels.
Dari	16 Bushels	24 Bushels.
Beans... ..	40 Bushels	188 Bushels.
Rice	1 Ton, 18 cwt.	2 Tons, 4 cwt.
Canary	164 Bushels	176 Bushels.
Hemp	92 Bushels	93 Bushels.
Millet	62 Bushels	62½ Bushels.
Millet Spray... ..	32 Bunches	28 Bunches.
Maw	28 lbs.	14 lbs.
Herrings	16,965 lbs.	17,052 lbs.
Whiting	61,584 lbs.	62,624 lbs.
Shrimps	1,585 Pints	1,095 Pints.
Horses	266 = 133 tons	316 = 158 tons.
Goats	175 = 831 stone	239 = 1,016 stone.
Condensed Milk	4,380 Tins	6,939 Tins.
New „	12,688 Pints	12,155 Pints.
Spanish Nuts	24 Pecks	24 Pecks.
Monkey „	44½ cwt.	58½ cwt.
Brazil „	274½ lbs.	263 lbs
Melons	3	Nil.
Pears	56 lbs.	Nil.
Bananas	113,829	124,774.
Apples	316 Pecks	353 Pecks.
Grapes	4,268½ lbs.	4,383½ lbs.
Oranges	11,982	12,688.
Lemons	424	428.
Dates... ..	3,666 lbs.	3,962 lbs.
Currants	252 lbs.	261 lbs.
Figs	96 lbs.	123½ lbs.
Sultanas	288 lbs.	288 lbs.

Description.	Quantity, 1911.	Quantity, 1912.
Lettuce ...	11,572 ...	15,246.
Greens ...	836½ Bushels ...	851 Bushels.
Cress ...	1,198 Bunches ...	1,209 Bunches.
Carrots ...	3,223 lbs....	4,220 lbs.
Carrots ...	142 Bunches ...	1,188 Bunches.
Potatoes ...	20,496 lbs. ...	19,374 lbs.
Onions ...	190 lbs. ...	72 lbs.
Onions ...	63 Bunches ...	108 Bunches.
Mangel ...	7 Tons, 1 cwt. ...	4 Tons, 5 cwt.
Biscuits ...	272 cwt. ...	307½ cwt.
Biscuits, Ground ...	56 cwt. ...	42½ cwt.
Sugar ...	473 lbs. ...	486 lbs.
Bread... ...	7,020 quarterns ...	7,190 quarterns.
Eggs ...	36,400 ...	34,850.
Oil Cake ...	61 cwt. ...	57½ cwt.
Meat & Veget- able Extracts	256 ozs. ...	242 ozs.
Fowls' Heads...	50,544 ...	51,030.
Rabbits ...	682 ...	1,495.
Guinea Pigs ...	24. ...	62.
Pigeons ...	510 ...	857.
Rats ...	3,866 ...	7,217.
Mice ...	19,031 ...	25,238.
Ducks ...	22... ...	38.
Sparrows ...	7,671 ...	9,207.

GENERAL CONDITION OF THE ANIMALS.

The general health of the collection has been good, and there have been notable decreases in the deaths due to tubercle and other communicable diseases. The Garden Committee and the staff have received much assistance from the Society's Pathologist and from Professor G. H. Wooldridge, Hon. Consulting Veterinary Surgeon, and Mr. B. Gorton, the Acting Veterinary Surgeon.

The outbreaks of Foot-and-mouth Disease in this country were the occasion of much anxiety. Very special attention was given daily to all the animals in the Gardens that might be subject to that disease; disinfectants were used freely at all the entrances, and care

was taken to ascertain that the food-supply came only from localities known to be unaffected. Fortunately, there was no case that incurred even suspicion.

List of Animals bred in the Gardens in 1912.

Notwithstanding the cold and rainy weather of 1912 and the perennial difficulty of breeding and rearing animals in a menagerie limited in area and used chiefly for exhibition, more mammals and birds were reared in 1912 than in 1911, a result that may be attributed to the increasing care that is given to the animals.

Mammals.

- | | | | |
|-------|-----|---|---|
| April | 7. | 1 | Capped Langur (<i>Semnopithecus pileatus</i>),
living; reared by mother.
(First record of breeding in captivity.) |
| June | 5. | 1 | Sooty Mangabey (<i>Cercocebus fuliginosus</i>),
died directly after birth. |
| March | 3. | 1 | Guinea Baboon (<i>Papio sphinx</i>), stillborn. |
| April | 10. | 1 | Ibean Baboon (<i>Papio ibeanus</i>), stillborn. |
| March | 26. | 1 | Ring-tailed Lemur (<i>Lemur catta</i>), died
(5 days old); left with mother. |
| May | 1. | 1 | Black-headed Lemur (<i>Lemur brunneus</i>),
sold. |
| Nov. | 15. | 2 | Leopards (<i>Felis pardus</i>), eaten by mother
a week after birth. |
| Feb. | 19. | 2 | Jaguars (<i>Felis onca</i>), 1 died (5 weeks old),
1 died (6 weeks old); left with mother. |
| July | 13. | 1 | Puma (<i>Felis concolor</i>), died a day after
birth; left with mother. |
| Jan. | 18. | 2 | Caracals (<i>Felis caracal</i>), 1 died (8 days
old), 1 died (11 days old); left with
mother. |
| Nov. | 10. | 2 | Caracals (<i>Felis caracal</i>), stillborn. |
| March | 15. | 2 | Masked Palm Civets (<i>Paradoxurus
larvatus</i>), eaten by mother the day after
birth. |
| Aug. | 15. | 3 | Masked Palm Civets (<i>Paradoxurus
larvatus</i>), 1 born dead, 2 died the day
after birth. |
| April | 4. | 1 | Timber Wolf (<i>Canis occidentalis</i>), living;
reared by mother. |

- May 7. 5 Prairie Wolves (*Canis latrans*), 2 died (8 days old), 1 disposed of in exchange, 2 living.
- Feb. 22. 4 Dingos ♂ ♂ ♀ ♀ (*Canis dingo*), all sold.
- Nov. 4. 4 Dingos (*Canis dingo*), 2 sold, 2 living.
- Nov. 29. 2 Polar Bears (*Ursus maritimus*), both died (6 days old); left with mother.
- April 21. 2 Grey Squirrels (*Sciurus cinereus*), living; reared by mother.
- Nov. 27. 2 Pampas Gerbilles (*Reithrodon typicus*), living.
(First record of breeding in captivity.)
- Dec. 13. 2 Pampas Gerbilles (*Reithrodon typicus*), living.
- Sept. 25. 4 Black Rats (*Mus rattus alexandrinus*), living.
- May 6. 2 Cairo Spiny Mice (*Acomys cahirinus*), 1 died, 1 living.
- June 7. 4 Cairo Spiny Mice (*Acomys cahirinus*), all sold.
- Dec. 2. 4 Cairo Spiny Mice (*Acomys cahirinus*), living.
- Dec. 19. 4 Cairo Spiny Mice (*Acomys cahirinus*), living.
- Aug. 21. 6 Coypus (*Myocastor coypus*), 4 disposed of in exchange, 2 living.
- June 13. 1 Hybrid Somali and Common Ass ♂ (*Equus somaliensis* × *E. asinus*), living; reared by mother.
- July 23. 1 Grévy's Zebra ♂ (*Equus grevyi*), very weak at birth, died (4 days old); left with mother.
- March 4. 1 English Park Bull (*Bos taurus*), killed and used for food.
- May 30. 1 English Park Cow (*Bos taurus*), living; reared by mother.
- Oct. 26. 1 English Park Bull (*Bos taurus*), living; reared by mother.
- July 14. 1 American Bison ♂ (*Bison americanus*), living; reared by mother.
- May 24. 1 Springbuck ♀ (*Antidorcas marsupialis*), living; reared by mother.
- Dec. 12. 1 Indian Antelope ♀ (*Antilope cervicapra*) died (4 days old).

- April 2. 1 Eland ♂ (*Taurotragus oryx*), living; reared by mother.
- April 7. 1 Eland ♀ (*Taurotragus oryx*), living; reared by mother.
- May 26. 1 Grecian Ibex ♂ (*Capra aegagrus*), living; reared by mother.
- June 9. 1 Hybrid Caucasian and Himalayan Ibex (*Capra cylindricornis* × *C. sibirica*), died (8 days old).
- June 18. 1 Hybrid Caucasian and Himalayan Ibex (*Capra cylindricornis* × *C. sibirica*), died 2 days after birth.
- July 6. 1 Hybrid Caucasian and Himalayan Ibex ♀ (*Capra cylindricornis* × *C. sibirica*), living; reared by mother.
- Aug. 4. 1 Tahr ♂ (*Hemitragus jemlaicus*), living; reared by mother.
- Aug. 19. 1 Tahr ♀ (*Hemitragus jemlaicus*), living; reared by mother.
- Mar. 14. 1 African Sheep ♀ (*Ovis aries*), disposed of in exchange.
- May 21. 1 Barbary Sheep ♂ (*Ammotragus lervia*), sold.
- April 15. 1 Mouflon ♂ (*Ovis musimon*), living.
- June 6. 1 Dybowski's Deer (*Cervus hortulorum*), living; reared by mother.
- Sept. 28. 1 Barasingha Deer ♂ (*Cervus duvaucelli*), living; reared by mother.
- April 12. 1 Common Camel ♀ (*Camelus dromedarius*), disposed of in exchange.
- Feb. 11. 1 Black Wallaroo (*Macropus robustus*), living; reared by mother.
- Oct. 31. 1 Black Wallaroo (*Macropus robustus*), living; reared by mother.
- Jan. 12. 1 Red-bellied Wallaby (*Macropus billardieri*), living; reared by mother.
- July 11. 1 Red-bellied Wallaby (*Macropus billardieri*), living; reared by mother.
- April 10. 1 Ursine Tree-Kangaroo (*Dendrolagus ursinus*), died (9 weeks old).
- Mar. 21. 1 Rufous Rat-Kangaroo (*Aepyprymnus rufescens*), living; reared by mother.

Birds.

The following birds were successfully reared except where otherwise stated. An asterisk denotes that the species has not previously bred in the Gardens.

- | | | |
|--------|---|--|
| June | } | 4 Grey-winged Ouzels (<i>Merula bouboul</i>). |
| Aug. | | |
| June | } | 3 White-throated Ground-Thrushes (<i>Geocichla cyanotis</i>)*. |
| Aug. | | |
| June. | | 2 Scarlet Tanagers (<i>Ramphocælus brasilius</i>)*, (not reared). |
| Aug. | | 1 Magpie Tanager (<i>Cissopis leveriana</i>)*, died after leaving the nest. |
| Aug. | | 3 Crimson Finches (<i>Neochmia phaëton</i>)*. |
| July. | | 3 Mexican Rose-Finches (<i>Carpodacus mexicanus</i>)*. |
| July. | | 2 Yellow-collared Parrakeets (<i>Barnardius semitorquatus</i>). |
| May | } | 20 Budgerigars (<i>Melopsittacus undulatus</i>). |
| Sept. | | |
| May. | | 5 White Storks (<i>Ciconia alba</i>), not reared. |
| April. | | 2 Black-necked Swans (<i>Cygnus nigricollis</i>), one died when three weeks old. |
| Sept. | | 13 Muscovy Ducks (<i>Cairina moschata</i>). |
| June. | | 5 Carolina Ducks (<i>Lampronessa sponsa</i>). |
| May. | | 6 Upland Geese (<i>Chloephaga magellanica</i>). |
| May | } | 6 Egyptian Geese (<i>Alopochen ægyptiacus</i>). |
| Sept. | | |
| June. | | 1 Hybrid Orinoco and Egyptian Goose (<i>Alopochen jubatus</i> × <i>A. ægyptiacus</i>). |
| May. | | 4 Variegated Sheldrakes (<i>Tadorna variegata</i>), 1 killed by cat. |
| May. | | 6 Wild Ducks (<i>Anas boscas</i>). |
| June. | | 7 Wigeon (<i>Mareca penelope</i>). |
| April. | | 3 Chestnut-breasted Teal (<i>Nettion castaneum</i>). |
| July. | | 6 Brazilian Teal (<i>Nettion brasiliensis</i>), 5 died when a few days old. |
| Aug. | | 2 Shovellers (<i>Spatula clypeata</i>). |
| June. | | 20 Tufted Ducks (<i>Fuligula fuligula</i>), hatched from eggs presented by Fellows of the Society, 3 died. |
| July. | | 1 Eider Duck (<i>Somateria mollissima</i>), hatched from egg presented by a Fellow of the Society. |
| April. | | 5 Senegal Turtle-Doves (<i>Turtur senegalensis</i>). |

- July }
 Aug. } 3 Scaly Ground Doves (*Scardafella squamosa*)*.
 June }
 Aug. } 3 Bronze-winged Pigeons (*Phaps chalcoptera*).
 June }
 July. } 4 White-fronted Doves (*Leptoptila jamaicensis*)*.
 July }
 Sept. } 4 Venezuelan Ground Doves (*Geotrygon venezue-*
 Sept. } *lensis*).
 Sept. 12 Black-breasted Colins (*Colinus pectoralis*)*,
 2 died.
 Sept. 2 Black-throated Crested Quails (*Eupsychortyx*
nigrigularis).
 July }
 Aug. } 12 Californian Quails (*Callipepla californica*).
 Aug. 6 Douglas Quail (*Lophortyx douglasi*)*.
 July. 1 Reeve's Pheasant (*Syrmaticus reevesi*).
 Sept. 5 Elliot's Pheasants (*Calophasis ellioti*).
 July. 6 Gold Pheasants (*Chrysolophus picta*).
 July. 14 Amherst Pheasants (*Chrysolophus amherstiae*),
 3 died.
 July. 1 Swinhoe's Pheasant (*Genæus swinhoii*).
 May. 7 Sonnerat's Jungle-fowl (*Gallus sonnerati*),
 4 died.
 May. 7 Red Jungle-fowl (*Gallus gallus*), 2 died.
 Sept. 6 Horned Tragopans (*Cerionis satyra*), 3 died.
 Sept. 9 Black-winged Peafowl (*Pavo nigripennis*).
 April }
 June } 11 Peacock Pheasants (*Polyplectrum chinquis*), 2
 Aug. } died.
 May. 11 North-American Turkeys (*Meleagris ameri-*
cana), 1 died.
 June. 2 Earl's Weka Rails (*Ocydromus earli*)*, 1 died.
 May. 6 Black-tailed Waterhens (*Microtribonyx ven-*
tralis).
 June. 2 Brazilian Cariamas (*Cariama cristata*), both
 died.
 June }
 July. } 4 Greater Black-backed Gulls (*Larus marinus*).
 July. 4 Herring Gulls (*Larus argentatus*).
 July. 1 Hemprich's Gull (*Larus hemprichi*)*.

June	}	10 Rufous Tinamous (<i>Rhynchotus rufescens</i>), 4 died.
July		
Aug.		
June.		4 Martineta Tinamous (<i>Calodromus elegans</i>).
April.		1 Black-footed Penguin (<i>Spheniscus demersus</i>).

Reptiles and Batrachians.

Sept.	12	Mocassin Snakes (<i>Tropidonotus fasciatus</i> var. <i>rhomboifer</i>), all living.
June.	12	Russell's Vipers (<i>Vipera russelli</i>), all dead.
Sept.	3	Western Diamond Rattlesnakes (<i>Crotalus atrox</i>), 1 living.
Jan.	16	Spotted Salamanders (<i>Salamandra maculosa</i>), all dead.
Feb.	10	Spotted Salamanders (<i>Salamandra maculosa</i>), all dead.
Aug.	2	Crested Newts (<i>Molge cristata</i> var. <i>karelinii</i>), 1 living.
Dec.	11	Axolotls (<i>Amblystoma tigrinum</i>), all living.

Additions to the Menagerie in 1912.

The number of Vertebrate Animals living in the Society's Menagerie at the end of 1912 was 3,595. The corresponding number on the 31st of December, 1911, was 3,847, as will be seen by the following Table:—

	December 31.	
	1911.	1912.
Mammals	885	826
Birds	2,180	2,162
Reptiles and Batrachians	594	486
Fishes	188*	121
	3,847	3,595

*This does not include a Collection of about 100 "Millions" Fishes.

The total number of registered additions to the Menagerie in 1912 was 2,817, of which 1,335 were acquired by presentation, 456 by purchase, 448 were born in the Gardens, 346 were received on deposit, and 232 obtained in exchange.

The mode in which these figures compare with those of the previous ten years is shown in the following table:—

	Presented.	Purchased.	Born.	Deposited.	Received in Exchange.	Total.
1902	502	163	80	956	30	1731
1903	414	59	68	791	41	1373
1904	701	254	177	581	91	1804
1905	860	286	286	1097	202	2731
1906	1156	254	200	1019	139	2768
1907	929	202	187	737	227	2282
1908	1347	374	155	300	265	2441
1909	1015	323	131	361	166	1996
1910	1128	341	267	362	254	2352
1911	1269	812	382	611	417	3491
1912	1335	456	448	346	232	2817

In addition to the following list of the more noteworthy additions to the Menagerie in 1912, special attention may be directed to the King's Nepal Collection, a full list of which is given on page 26, and to the Malay Collection presented by the Government of the Federated Malay States, a full list of which is given on page 28.

1 White-throated Capuchin (*Cebus hypoleucus*), from Panama, presented by Francis Wright, Esq., on Jan. 31st.

2 Grand Galagos (*Galago crassicaudata*) and 1 Blotched Genet (*Genetta tigrina*), from the Transvaal, presented by Commander F. J. Moseley on Jan. 20th.

1 African Red-winged Starling (*Amydrus morio*), from S. Africa, new to the Collection, received in exchange on Jan. 3rd.

1 Yellow-rumped Hangnest (*Pseudoleistes guirahuro*), from S. America, new to the collection, presented by Miss V. Bromwich on Jan. 22nd.

1 Yellow-lored Amazon (*Chrysotis xantholora*), from Paraguay, purchased on Jan. 4th.

2 Blue-rumped Parrakeets (*Psittinus incertus*), from Malacca, received in exchange on Jan. 3rd.

1 Abyssinian Love-bird (*Agapornis taranta*), new to the Collection, deposited on Jan. 3rd.

1 Calabar Snake (*Calabaria reinhardti*), from W. Africa, new to the Collection, presented by S. H. Carnelley, Esq., on Jan. 16th.

1 Schott's Snake (*Philodryas schotti*), from S. America, new to the Collection, received in exchange on Jan. 18th.

2 Snow-Leopards (*Felis uncia*), from Kashmir, presented by Captain G. Douglas Oliver, F.Z.S., on Feb. 26th.

2 Jaguars (*Felis onca*), born in the Menagerie on Feb. 20th.

2 Striped Hyænas (*Hyæna hyæna*), from N. Nigeria, presented by H. P. Lobb, Esq., on Feb. 4th.

1 Spurrell's Dormouse (*Graphiurus spurrelli*), from Dunkwa, Gold Coast, new to the Collection, presented by Dr. H. G. F. Spurrell, F.Z.S., on Feb. 12th.

1 White-capped Redstart (*Chimarrhornis leucocephalus*), from the Himalayas, presented by Alfred Ezra, Esq., F.Z.S., on Feb. 29th.

1 Alpaca (*Lama pacos*) ♂, from Peru, received in exchange on March 5th.

1 Racket-tailed Drongo (*Dissemurus paradiseus*), from India, presented by Alfred Ezra, Esq., F.Z.S., on March 14th.

1 African Tantalus (*Pseudotantalus ibis*), from Southern Nigeria, presented by Sir Walter Egerton, K.C.M.G., F.Z.S., on March 15th.

1 Ashy-headed Goose (*Chloëphaga poliocephala*), bred in Holland, received in exchange on March 22nd.

3 Prairie-Hens (*Tympanuchus americanus*), from North America, received in exchange on March 21st.

1 Rüppell's Guereza (*Colobus abyssinicus occidentalis*) ♂, from the Southern Cameroons, deposited on April 29th.

1 Black Jaguar (*Felis onca*) ♀, from Para, purchased on April 12th.

1 Capped Langur (*Semnopithecus pileatus*), 2 Elands (*Taurotragus oryx*), 1 Common Camel (*Camelus dromedarius*), and 1 Ursine Tree-Kangaroo (*Dendrolagus ursinus*), born in the Menagerie.

A collection of birds from Columbia, presented by W. K. Pomeroy, Esq., F.Z.S., on April 6th, containing amongst others, 2 Purple Jays (*Cyanocorax affinis*), new to the Collection, 1 Harpy Eagle (*Thrasaëtus harpygia*), 2 Severe Macaws (*Ara severa*), and 2 Golden Hangnests (*Icterus xanthornus*).

2 Lammergeiers (*Gypaëtus barbatus*), from Russian Turkestan, purchased on April 19th.

1 large Reticulated Python (*Python reticulatus*), from the East Indies, presented by the late Rowland Ward, Esq., F.Z.S., on April 19th.

A pair of European Bison (*Bison bonasus*) from Russia, presented by H.G. the Duke of Bedford, K.G., on May 15th.

1 Black Leopard (*Felis pardus*), from Assam, purchased on May 21st.

1 Branded Palm-Civet (*Arctogalidia stigmatica*), from Sarawak, new to the Collection, presented by Granville J. Altman, Esq., F.Z.S., on May 16th.

1 Civet (*Viverra civetta*), from E. Africa, and 2 Egyptian Mongooses (*Mungos ichneumon*), from Zagazig, presented by H.E. Hassan Hasib Pasha on May 21st.

1 Ural Owl (*Syrnium uralense*), from Northern Europe, presented by E. G. B. Meade-Waldo, Esq., V.P.Z.S., on May 8th.

A collection of rare Reptiles from India, received in exchange on May 21st, containing amongst others, 2 Banded Kachugas (*Kachuga dhongoka*), and 3 Variegated Snakes (*Zamenis fasciolatus*), new to the Collection, and 2 Gharials (*Gavialis gangeticus*).

1 Tuatera Lizard (*Sphenodon punctatus*), from New Zealand, deposited on May 7th.

2 Striped Skinks (*Lygosoma taeniolum*), from Australia, and 1 New Zealand Skink (*Lygosoma lineo-ocellatum*), new to the Collection, purchased on May 1st.

1 Orsini's Viper (*Vipera ursinii*), from Europe, new to the Collection, purchased on May 4th.

2 Malayan Tapirs (*Tapirus indicus*) ♂ ♀, from Palembang, Sumatra, received in exchange on June 22nd.

1 Grys-bok (*Nototragus melanotis*) ♂, from Cape Colony, presented by W. Lester, Esq., on June 3rd.

1 Shoebill (*Balæniceps rex*), from the Sudan, presented by Lt.-Gen. Sir Francis Wingate, G.C.V.O., H.M.Z.S., on June 29th.

2 Ocellated Turkeys (*Meleagris ocellata*), from Central America, deposited on June 24th.

2 Chestnut-bellied Rock-Thrushes (*Petrophila erythrogastra*), from the Himalayas, new to the Collection, received in exchange on June 17th.

2 Brown-backed Robins (*Thamnobia cambaiensis*), from India, new to the Collection, purchased on June 18th.

1 Temminck's Robin (*Erithacus komadori*), from Japan, new to the Collection, presented by Wilfred Frost, Esq., on June 14th.

2 Grey Thrashers (*Toxostoma cinereum*), from Lower California, new to the Collection, presented by H. D. Astley, Esq., F.Z.S., on June 15th.

6 Chilean Siskins (*Chrysomitris uropygialis*), new to the Collection, presented by Arthur C. Macdonald, Esq., on June 26th.

2 Himalayan White-throated Ground-Thrushes (*Geocichla cyanonotus*), bred in the Menagerie on June 15th.

12 Russell's Vipers (*Vipera russelli*), born in the Menagerie on June 28th.

1 African Buffalo (*Bubalus caffer*) ♂, from the Ishasha River, Uganda, presented by Capt. E. H. Reid on July 29th.

1 Vaal Rhe-bok (*Pelea capreolus*) ♂, from Basutoland, presented by M. H. Bosworth Smith, Esq., on July 6th.

2 Yellow-headed Wagtails (*Motacilla citreola*) and 1 Brown Shrike (*Lanius cristatus*), from India, new to the Collection, presented by Wilfred Frost, Esq., on July 25th.

1 Changeable Hawk-Eagle (*Spizaëtus limnaëtus*), from India, new to the Collection, deposited on July 25th.

1 Hemprich's Gull (*Larus hemprichi*), hatched in the Menagerie on July 22nd.

1 Black-and White Cobra (*Naia melanoleuca*), from Dunkwa, Gold Coast, presented by Dr. H. G. F. Spurrell, F.Z.S., on July 16th.

1 Snake-Fish (*Polypterus senegalus*), from the Upper Nile, presented by the Rev. Archibald Shaw on July 9th.

1 White-thighed Guereza (*Colobus vellerosus*), from West Africa, presented by Miss Jean Aylwin, F.Z.S., on August 30th.

1 Roebuck fawn (*Capreolus capreolus*), from Ross-shire, presented by the Earl of Altamont, F.Z.S., on August 1st.

1 Mount Morrison Laughing-Thrush (*Trochalopteron morrisonianum*), from Formosa, new to the Collection, deposited on August 5th.

1 Magpie-Tanager (*Cissopis leveriana*), 3 Australian Crimson Finches (*Neochmia phaëton*), 2 Peale's Parrot-Finches (*Erythrura pealei*), and 6 Douglas Quails (*Lophortyx douglasi*), all bred for the first time in the Menagerie.

1 Matamata Terrapin (*Chelys fimbriata*), from Brazil, presented by Oswald Allen, Esq., on August 10th.

12 Six-banded Cyprinodons (*Haplochilus sexfasciatus*), from West Africa, new to the Collection, presented by Dr. H. G. F. Spurrell, F.Z.S., on August 21st.

4 Pelzeln's Gazelles (*Gazella pelzelni*), presented by Dr. R. E. Drake-Brockman, F.Z.S., on September 26th.

1 Pelzeln's Gazelle (*Gazella pelzelni*), presented by A. Gibbs, Esq., on September 26th.

1 Capybara (*Hydrochaerus hydrochaerus*), presented by Sir Walter Egerton, K.C.M.G., F.Z.S., and J. J. Nunan, Esq., on September 2nd.

1 White-tailed Gnu (*Connochætes gnu*), presented by the Government of South Africa on September 28th.

1 Kordofan Giraffe (*Giraffa camelopardalis antiquorum*) ♂, presented by Lt.-Gen. Sir Francis Reginald Wingate, G.C.V.O., H.M.Z.S., K.C.M.G., C.B., D.S.O., on September 13th.

1 Brown Tyrant (*Myiarchus tyrannulus*), from Uruguay, new to the Collection, presented by Mrs. E. F. Dickinson on September 3rd.

1 Great Indian Bustard (*Eupodotis edwardsi*), new to the Collection, presented by Sir John Hewett, K.C.S.I., F.Z.S., on September 30th.

2 European Bee-eaters (*Merops apiaster*), received in exchange on September 11th.

2 Snake-headed Fishes (*Ophiocephalus punctatus*), from India, new to the Collection, received in exchange on September 7th.

1 African Buffalo (*Bubalus caffer*) ♀, from the Sezibwa Swamp, Uganda, presented by H. M. Birch, Esq., on October 22nd.

1 Fossa (*Cryptoprocta ferox*) ♂, from Madagascar, purchased on October 23rd.

1 Pampas Cat (*Felis pajeros*), 1 Pampas Cavy (*Cavia rufescens*), 3 Pampas Gerbilles (*Reithrodon typicus*), and 2 Pampas Field-Mice (*Akodon arenicola*), from Argentina, the three last-named new to the Collection, presented by Wilfred A. Smithers, Esq., C.M.Z.S., on October 16th.

1 Argentine Mocking-bird (*Mimus modulator*) and 3 Pelzeln's Saffron-Finches (*Sycalis pelzelni*), from Argentina, new to the Collection, presented by Wilfred A. Smithers, Esq., C.M.Z.S., on October 16th.

1 Black-headed Hangnest (*Icterus melanocephalus*), from Mexico, new to the Collection, presented by W. O. Danckwerts, Esq., K.C., F.Z.S., on October 10th.

2 Great-billed Ravens (*Corvultur crassirostris*), from N.E. Africa, new to the Collection, presented by the Marquess of Tavistock, F.Z.S., on October 3rd.

1 Yellow-fronted Barbet (*Cyanops flavifrons*), from Ceylon, new to the Collection, purchased on October 17th.

2 Orange-bellied Fruit-Pigeons (*Ptilopus iozonus*), 2 Pearl-spotted Fruit-Pigeons (*Ptilopus zonurus*), 1 Wallace's Fruit-Pigeon (*Ptilopus wallacei*), and 1 Yellow-bellied Ground-Pigeon (*Phlogœnas helviventris*), from the Aru Islands, all new to the Collection, purchased on October 15th.

4 White-throated Tree-Partridges (*Arboricola crudigularis*), from Formosa, new to the Collection, received on deposit on October 23rd.

3 Leith's Snakes (*Psammophis leithii*), from S.W. Asia, new to the Collection, purchased on October 15th.

1 Humboldt's Saki (*Pithecia monachus*), from Iquitos, purchased on November 20th.

1 Kusimanse (*Crossarchus obscurus*), from Axim, Gold Coast, presented by R. W. Brent, Esq., on November 8th.

2 Black-spined Porcupine Anteaters or Echidnas (*Zaglossus nigroaculeatus?*) from the Charles Louis Mountains, New Guinea, new to the Collection, deposited on November 27th.

2 Ruffed Lemurs (*Lemur varius*) ♂ ♀, received in exchange on December 16th.

1 White-tailed Gnu (*Connochaetes gnu*) ♀, purchased on December 10th.

3 Mahali Weaver-birds (*Plocepasser mahali*), from South Africa, new to the Collection, received in exchange on December 17th.

1 Pink-browed Rose-Finch (*Propasser rhodochrous*), from the Himalayas, new to the Collection, presented by W. H. St. Quintin, Esq., F.Z.S., on December 19th.

1 Nepalese Eagle-Owl (*Huhua nipalensis*), from the Maikola Valley, East Nepal, purchased on December 4th.

1 Bushmaster (*Lachesis mutus*), from Trinidad, presented by the Baron Leijonhufvud, F.Z.S., on December 10th.

The thanks of the Society are due to many Steamship Companies who have given valuable assistance in the transport of Animals, and in particular to Messrs. Alfred Holt & Co., who carried the Malay Collection of Animals from Port Swettenham to London, free of freight; to the British India Steamship Company, which has frequently conveyed Animals consigned to the Society, free of charge, and this year made special arrangements for conveying the King's Nepal Collection; to the White Star Line; and to the Atlantic Transport Company which has been of great service in relation to the frequent exchanges between the Society and the Zoological Society of New York.

The Society has also received much help from its Corresponding Members, and from the officers of kindred institutions, amongst whom may be mentioned in particular, Dr. Hornaday, the Director of the Zoological Park at New York, the Superintendent of the Zoological Gardens at Calcutta, the hon. secretary of the Bombay Natural History Society, and Mr. H. C. Robinson, C.M.Z.S., the Director of the Federated Malay States Museums.

List of the Species new to the Collection exhibited during the year 1912.

The following list gives the names of the specimens exhibited in 1912 which are referable to genera or species not included in the last (ninth) edition (1896) of the List of Animals, or in subsequent Annual Reports. It contains 10 Mammals, 30 Birds, 14 Reptiles, and 2 Fishes. Except in the case of Reptiles the numbers are con-

siderably lower than for 1911, but it contains several very interesting generic types. No special effort has been made to obtain representatives of species, the chief interest of which is that they have not happened to be exhibited by the Society before, but no opportunity has been lost of endeavouring to maintain the Collection as a representative exhibition of distinctive kinds of animals.

The figures placed before each name indicate its approximate position in the List of Animals.

I.—MAMMALS.

- 232 a. *Mungos brachyurus* Gray. Short-tailed Mongoose.
Hab. Malay Peninsula.
 a ♂. Presented by the Government of 'The Federated Malay States, June 24th, 1912.
- 249 a. *Canis laniger* Hodgson. Woolly Wolf.
Hab. Himalayas.
 a ♂. Presented by H.M. the King, May 21st, 1912.
- 404 a. *Petaurista nitidus* Desmanest. Black-tailed Flying Squirrel.
Hab. Formosa.
 a. Presented by Walter Goodfellow, Esq., F.Z.S., June 20th, 1912.
- 423 b. *Graphiurus spurrelli* Dollm. Spurrell's Dormouse.
Hab. Dunkwa Gold Coast.
 a. Presented by Dr. H. G. F. Spurrell, F.Z.S., Feb. 12th, 1912.
- 423 d. *Nyctomys sumichrasti* Saussure. Sumichrast's Nightmouse.
Hab. Central America.
 a. Deposited, October 14th, 1912.
- 433 b. *Reithrodon typicus* Waterhouse. Pampas Gerbille.
Hab. Argentina.
 a, c. Presented by Wilfred A. Smithers, Esq., C.M.Z.S., October 16th, 1912.
- 447 a. *Akodon arenicola* Waterhouse. Pampas Field-mouse.
Hab. Argentina.
 a, b. Presented by Wilfred A. Smithers, Esq., C.M.Z.S., October 16th, 1912.
- 503 b. *Cavia rufescens* Lund. Pampas Cavy.
Hab. Mar del Plata, Argentina.
 a. Presented by Wilfred A. Smithers, Esq., C.M.Z.S., October 16th, 1912.

- 630 a. *Cervus wallichii* Hodgson. Wallich's Deer.
Hab. Tibet.
 a ♂. Presented by H.M. the King, March 13th, 1912.
 See P.Z.S., 1912, pp. 558-575.
- 770 b. *Zaglossus nigroaculeatus* Rothschild? Black-spined
 Porcupine Anteater.
Hab. Charles Louis mountains, New Guinea.
 a, b. Deposited, November 27th, 1912.

II.—BIRDS.

- 19 a. *Petrophila erythrogaster* Vigors. Chestnut-bellied
 Rock-Thrush.
Hab. Himalayas.
 a, b. Received in exchange, June 17th, 1912.
- 25 a. *Erithacus komadori* Temm. Temminck's Robin.
Hab. Japan.
 a. Presented by Wilfred Frost, Esq., June 14th, 1912.
- 25 b. *Thamnobia cambaiensis* Latham. Brown-backed
 Robin.
Hab. India.
 a, b. Purchased, June 18th, 1912.
- 45 a. *Mimus modulator* Gould. Argentine Mocking-bird
Hab. Argentina.
 a. Presented by Wilfred A. Smithers, Esq., C.M.Z.S.,
 October 16th, 1912.
- 45 a. *Toxostoma cinereum* Xantus. Grey Thrasher.
Hab. Lower California.
 a, b. Presented by Hubert D. Astley, Esq., F.Z.S.,
 June 15th, 1912.
- 67 d. *Motacilla citreola* Pall. Yellow-headed Wagtail.
Hab. India.
 a, b. Presented by W. J. C. Frost, Esq., July 25th,
 1912.
- 85 b. *Hypsipetes amaurotis* Temm. Brown-cheeked
 Bulbul.
Hab. Japan.
 a. Presented by Hubert D. Astley, Esq., F.Z.S., Aug.
 5th, 1912.
- 95 b. *Trochalopternum morrisonianum* O-Grant. Mt.
 Morrison Laughing Thrush.
Hab. Formosa.
 a. Deposited, August 5th, 1912.
- 110 b. *Lanius cristatus* Linn. Brown Shrike.
Hab. India.
 a. Presented by W. J. C. Frost, Esq., July 25th, 1912.

- 215 a. *Plocepasser mahali* Smith. Mahali Weaver-bird.
Hab. S. Africa.
 a, c. Purchased, Dec. 17th, 1912.
- 313 d. *Chrysomitris uropygialis* Selater. Chilian Siskin.
Hab. Chili.
 a-f. Presented by Arthur C. Macdonald, Esq., June 26th, 1912.
- 317 b. *Sycalis pelzelni* Selater. Pelzeln's Saffron-Finch.
Hab. Argentina.
 a-c. Presented by Wilfred A. Smithers, Esq., C.M.Z.S., October 16th, 1912.
- 333 b. *Propasser rhodochrous* Vigors. Pink-browed Rose-Finch.
Hab. Himalayas.
 a. Presented by W. H. St. Quintin, Esq., F.Z.S., Dec. 19th, 1912.
- 370 b. *Amydrus morio* Linn. African Red-winged Starling.
Hab. S. Africa.
 a. Received in exchange, Jan. 3rd, 1912.
- 379 b. *Icterus melanocephalus* Wagl. Black-headed Hang-nest.
Hab. Mexico.
 a. Presented by W. O. Danckwerts, Esq., K.C., F.Z.S., Oct. 10th, 1912.
- 391 a. *Pseudoleistes guirahuro* Vieill. Yellow-rumped Hangnest.
Hab. S. America.
 a. Presented by Miss V. Bromwich, Jan. 22nd, 1912.
- 444 a. *Corvultur crassirostris* Rüpp. Great-billed Raven.
Hab. N.E. Africa.
 a, b. Presented by The Marquess of Tavistock, F.Z.S., Oct. 3rd, 1912.
- 458 a. *Cyanocorax affinis* Pelz. Purple Jay.
Hab. Columbia.
 a. Presented by W. K. Pomeroy, Esq., F.Z.S., April 6th, 1912.
- 510 e. *Myiarchus tyrannulus* P. L. S. Müll. Brown Tyrant.
Hab. Uruguay.
 a. Presented by Mrs. E. F. Dickinson, September 3rd, 1912.
- 578 e. *Cyanops flavifrons* Cuvier. Yellow fronted Barbet.
Hab. Ceylon.
 a. Purchased, October 17th, 1912.

- 774 b. *Agapornis taranta* Stanley. Abyssinian Love-bird.
Hab. Abyssinia.
 a. ♀ Deposited, January 3rd, 1912.
- 926 a. *Spizaetus limnaetus* Horsf. Changeable Hawk-
 Eagle.
Hab. India.
 a. Deposited, July 25th, 1912.
- 1216 a. *Ptilopus iozonus* Gray. Orange-bellied Fruit-
 Pigeon.
Hab. Aru Islands.
 a. b. Purchased, October 15th, 1912.
- 1216 b. *Ptilopus zonurus* Salvad. Pearl-spotted Fruit-
 Pigeon.
Hab. Aru Islands.
 a. b. Purchased, October 15th, 1912.
- 1216 c. *Ptilopus wallacei* Gray. Wallace's Fruit-Pigeon.
Hab. Aru Islands.
 a. Purchased, October 15th, 1912.
- 1307 a. *Phlogænas helviventris* Rosenb. Yellow-bellied
 Ground Pigeon.
Hab. Aru Islands.
 a. Purchased October 15th, 1912.
- 1349 a. *Arboricola charltoni* Eyton. Charlton's Tree Par-
 tridge.
Hab. Malay Peninsula.
 a. j. Presented by The Government of the Federated
 Malay States, June 24th, 1912.
- 1349 b. *Arboricola crudigularis* Swinh. White-throated
 Tree Partridge.
Hab. Formosa.
 a. d. Deposited, October 23rd, 1912.
- 1489 b. *Gallicrex cinerea* Lath. Water Cock.
Hab. Malay Peninsula.
 a. Presented by the Government of the Federated
 Malay States, June 24th, 1912.
- 1526 a. *Eupodotis edwardsi* Gray & Hardw. Great Indian
 Bustard.
Hab. India.
 a. Presented by Sir John Hewett, K.C.S.I., F.Z.S.,
 September 30th, 1912.

III.—REPTILES.

- 8 a. *Kachuga dhondgoka* Gray. Banded Kachuga.
Hab. India.
 a. b. Received in exchange, May 21st, 1912.

- 113 d. *Hemidactylus bowringii* Gray. Bowring's Gecko.
Hab. Malay Peninsula.
 a. Presented by the Government of the Federated Malay States, June 24th, 1912.
- 113 e. *Hemidactylus frenatus* Dum. & Bibr. Bridled Gecko.
Hab. Malay Peninsula.
 a. Presented by the Government of the Federated Malay States, June 24th, 1912.
- 113 f. *Hemidactylus leschenaultii* Dum. & Bibr. Leschenault's Gecko.
Hab. Malay Peninsula.
 a. Presented by the Government of the Federated Malay States, June 24th, 1912.
- 226 c. *Lygosoma taeniolum* White. Striped Skink.
Hab. Australia.
 a. b. Purchased, May 1st, 1912.
- 226 d. *Lygosoma lineo-ocellatum* A. Dum. New Zealand Skink.
Hab. New Zealand.
 a. Purchased, May 1st, 1912.
- 349 a. *Acrochordus javanicus* Hornst. Elephant Snake.
Hab. Malay Peninsula.
 a. b. Presented by the Government of the Federated Malay States, June 24th, 1912.
- 268 a. *Calabaria reinhardti* Schleg. Calabar Snake.
Hab. W. Africa.
 a. Presented by S. H. Carnelley, Esq., Jan. 16th, 1912.
- 284 a. *Helicops schistosus* Daud. Indian Water Snake.
Hab. India.
 a. b. Received in exchange, May 21st, 1912.
- 303 e. *Zamenis fasciolatus* Shaw. Variegated Snake.
Hab. India.
 a. b. Received in exchange, May 21st, 1912.
- 362 a. *Philodryas schotti* Schleg. Schott's Snake.
Hab. S. America.
 a. Received in exchange, January 18th, 1912.
- 370 b. *Psammophis leithii* Gthr., S.W. Asia. Leith's Snake.
Hab. Africa.
 a. d. Purchased, October 15th, 1912.
- 370 c. *Psammophis regularis* Sternfeld. West-African Sand-Snake.
Hab. Sierra Leone.
 a. Presented by Guy Aylmer, Esq., F.Z.S., July 28th, 1912.

- 397 a. *Vipera ursinii* Bonap. Orsini's Viper.
Hab. Europe.
 a. Purchased, May 4th, 1912.

IV.—FISHES.

- Ophiocephalus punctatus* Block. Snake-headed Fish.
Hab. India.
 a. b. Received in exchange, September 7th, 1912.
Haplochilus sexfasciatus Gill. Six-banded Cyprinodon.
Hab. Dunkwa, Gold Coast.
 Presented by Dr. H. G. F. Spurrell, F.Z.S., August 21st, 1912.

*List of Donors and their Donations for the
 year 1912.*

H.M. KING GEORGE V. (PATRON AND FELLOW OF THE SOCIETY). The Nepal Collection (see p. 26).

THE GOVERNMENT OF THE FEDERATED MALAY STATES. The Malay Collection (see p. 28 with list of special Donors).

54 - His Grace The DUKE OF BEDFORD, K.G. (PRESIDENT).
 2 European Bison ♂ ♀, 1 Mysore Zebu ♀, 1 Nepal Sheep ♀.

AARONS, Mr. Frank H. 1 Bronze-winged Pigeon.

ABERNETHY, Mr. D. 1 Many-zoned Hawk.

AFRICA, THE GOVERNMENT OF SOUTH. 1 White-tailed Gnu ♂.

ALLEN, Dr. A. G. 1 Roseate Cockatoo.

ALLEN, Mr. E. S. L. 1 Mona Cercopitheque.

56 - ALLEN, Mr. Oswald. 1 Ocelot ♂, 1 Matamata Terrapin.

ALLWORK, Miss Edith. 2 Heloderms.

56 - ALTAMONT, The Earl of, F.Z.S. (now Marquess of Sligo).
 2 Roebuck (♂ and fawn).

54 - ALTMAN, Mr. J. Granville, F.Z.S. 1 Branded Palm-Civet.

ANDRADE, Mr. Cyril. 1 Kestrel.

- ANTHONY, Dr. C. 1 Razor-billed Curassow.
 ASPREY, Miss. 1 Tawny Owl.
 ASSHETON, Mr. Nicholas R. 1 Hybrid Common Pheasant,
 1 Hybrid Reeves' Pheasant, 2 Mongolian Pheasants.
 ASTLEY, Capt. D. G. 2 Stoats.
 55- ASTLEY, Mr. Hubert D., F.Z.S. 2 Grey Thrashers, 1
 Brown-cheeked Bulbul.
 ATKINSON, Mr. W. 3 Common Vipers.
 AYLMER, Mr. Guy, F.Z.S. 1 Gaboon Viper, 1 West
 African Sand-Snake.
 56- AYLWIN, Miss Jean, F.Z.S. 1 White-thighed Guereza.
 AYTOUN, Mrs. H. J. 1 Broad-breasted Chelymys.
 BAIRD, Mrs. Edward. 1 Blue-fronted Amazon.
 BALFOUR, Lady Frances, F.Z.S. 1 Gannet.
 BANNISTER, Mr. G. H. 6 Common Vipers.
 BARKER, Miss Hilda. 1 Greater Sulphur-crested
 Cockatoo.
 BATEMAN, Miss C. 6 Hedgehogs.
 BEAUMONT, Mrs. Richard. 1 Common Marmoset.
 BEECH, Lt.-Col. R. J. 1 Blue Rock-Thrush.
 BEER, Mr. Austin. 1 Heron.
 BELLAMY, Mr. James Grainger, F.Z.S. 1 Common
 Macaque.
 BELLVILLE, Mrs. Frank. 1 Egyptian Jerboa.
 BENETT-STANFORD, Major John, F.Z.S. 1 Greater
 Sulphur-crested Cockatoo.
 BENNETT, Mrs. Edith B. 1 Tantalus Cercopitheque.
 BERENS, Mrs. Alick. 1 Grey Mongoose.
 BERNARD, Mrs. E. 1 Slow Loris.
 BIKKER, Mrs. A. E. 1 Roseate Cockatoo.
 BINGHAM, Mrs. 1 Purple-capped Lory.
 57- BIRCH, Mr. H. M. 1 African Buffalo ♀.
 BLAAUW, Heer F. E., C.M.Z.S. 1 Black-banded Goose.
 BLACK, Mr. P. Macgillivray, Junr. 1 Alligator.
 BLAIR, Mr. William, Junr. A Collection of Medicinal
 Leeches.
 BOND, Mr. F. W. 30 Smooth Newts.
 BOOTHAM SCHOOL, Nat. Hist. Club. 1 Common Viper.
 BOSWORTH, Mr. David. 1 Mozambique Cercopitheque ♀.
 BOULENGER, Mr. G. A., F.R.S., F.Z.S. 3 Edible Frogs,
 6 European Tree-Frogs, 8 Natterjack Toads,
 4 Midwife Toads, 12 Spotted Salamanders, 20 Alpine
 Newts.

- BOVILL, Miss M. V. 1 Lapwing.
 57- BRENT, Mr. R. W. 1 Kusimanse.
 BRODIE, Capt. L. C. 2 Lion Cubs.
 BRODIE, Mrs. M. J. 1 Roseate Cockatoo.
 53- BROMWICH, Miss V. 1 Yellow-rumped Hangnest, 1 Silky
 Hangnest.
 BROOKE, Sir Basil, Bart. 1 Indian Wolf ♀.
 BROOM, Dr. Robert, C.M.Z.S. 1 Rhomb-marked
 Snake.
 BROWN, Mr. G. W., F.Z.S. 2 Grey-breasted Parra-
 keets.
 BROWN, Miss Marcia Dixon. 1 Ring-necked Parrakeet. ♀
 BROWNE, Mrs. A. M. 1 Greater Sulphur-crested Cockatoo.
 BRUCE, Miss. 1 Budgerigar, 1 Shama.
 BUCHAN-HEPBURN, Sir Archibald, Bart. 1 Little Auk.
 BUCHAN-HEPBURN, Lady. 1 Glass Snake, 1 Japanese
 Newt.
 BUCKLEY, Capt. J. F. H., F.Z.S. 3 Polecats.
 BURBERRY, Miss Eileen E. 1 Green Cercopitheque.
 BURTON, Mr. Robert. 1 Long-eared Owl.
 BUSHELL, Mr. R. J. 1 Senegal Touracou.
 BUTLER, Miss R. 2 Saffron-Finches.
 BUXTON, Mr. B. H. 1 Barbary Galeodes, 1 Yellow
 Solpuga.
 BYATT, Mr. H. A., C.M.G. 1 White-tailed Mongoose.
 CADOGAN, Lieut. Francis C., R.N., F.Z.S. 2 Tarantula
 Spiders.
 CAMP, Mr. W. 1 Delalande's Gecko.
 53- CARNELLEY, Mr. S. H. 1 Calabar Snake.
 CAROLL, Mr. William. 1 Cactus Conure.
 CARUS-WILSON, Mr. Charles D. 1 Tawny Owl.
 CASTELLAIN, Capt. Louis. 1 Zech's Mole-Rat.
 CECIL, Lord William, C.V.O., F.Z.S. 1 Red-vented
 Bulbul.
 CECIL, The Hon. William A., F.Z.S. 1 Lesser Sulphur-
 crested Cockatoo.
 CHAMBERS, Miss Joan. 1 Cockatiel.
 CHAPPLE, Mr. J. T. 1 Roloway Cercopitheque ♀.
 CHETWYND, Mr. George Guy, F.Z.S. 2 Paradise Whydah-
 birds, 3 Orange Weaver-birds, 1 Crimson-crowned
 Weaver-bird, 2 Masked Weaver-birds, 2 Shining
 Weaver-birds, 3 Cut-throat Finches, 1 Red-headed
 Cardinal, 1 Yellow-rumped Seed-eater, 1 Yellow-
 throated Sparrow, 2 Rose-ringed Parrakeets.

- CHINNERY, Mr. Ivan R. 1 Black-backed Jackal.
 CHISHOLM, Mr. H., R.N.R. 1 Peregrine Falcon.
 CHRISTY, Mr. Miller. 1 Harvest Mouse.
 CLAIRE, Miss. 1 Grey Mongoose.
 CLARKE, Mrs. C. W. 1 Alexandrine Parrakeet.
 CLARKE, Mrs. Molyneux. 1 Indian Python.
 COCKBURN, Mr. C. S. 1 Ring-tailed Lemur.
 COCKBURN, Mr. N. C., F.Z.S. 1 Common Fox.
 COCKMAN, Miss M. 1 Purple-capped Lory.
 COCKS, Mr. A. Heneage, M.A., F.Z.S. 2 Jays.
 COCKS, The Rev. R. F. 1 Golden Agouti.
 COLLINS, Mr. Chas. E. 24 Cocoons of North American
 Silk-Moth.
 COLQUHOUN, Mr. A. G. C. 2 Pardine Genets.
 COOK, Mrs. 1 Four-lined Snake.
 COOK, Mrs. K. 1 Roseate Cockatoo.
 COOKSON, Miss Mabel. 1 Blue-fronted Amazon.
 CORDEAUX, Mr. A. V. 2 Goshawks.
 CORRI, Mr. Lionel. 1 Vulpine Opossum.
 COTTON, Mr. T. A., F.Z.S. 2 Muscovy Ducks.
 COUCHMAN, Mr. M. U. 2 Red-beaked Weaver-birds.
 COX, Mrs. M. E. L. 1 Indian Crow.
 COX, Mr. M. G. B., R.N. 2 Alexandrine Parrakeets.
 CRAPP, Mr. Arthur. 1 Bateleur Eagle.
 CRESSWELL, Mr. W. 1 Ring-necked Parrakeet.
 CRICHTON, Miss Nellie. 1 Green Lizard.
 CROSS, Mr. W. Simpson, F.Z.S. 1 Gray's Cercopitheque,
 1 Wandering Tree-Pie, 1 Red-rumped Hangnest,
 1 Black Francolin, 1 Southern Fruit Pigeon.
 CUMMING, Mr. A. 1 Sykes's Cercopitheque.
 CURREY, Mrs. 2 Golden Orioles.
 DALRYMPLE, Mr. J. 1 Roloway's Cercopitheque.
 57- DANCKWERTS, Mr. W. O., K.C., F.Z.S. 1 Grey Squirrel,
 1 Black-headed Hangnest, 4 Silky Cow-birds, 1
 Raven, 1 Mexican Jay, 1 Mealy Amazon.
 DANDO, Mr. M. 1 Golden Eagle.
 DAY, Mr. Alfred Ely. 1 Badger.
 DEGEN, Miss D. A. 2 White-crested Touracous.
 DE ROTHSCHILD, Miss Alice. 1 Bronze-winged Pigeon.
 DE RUTZEN, Mr. Eugene, F.Z.S. 1 Leopard Cub ♀.
 DE PASS, Mr. O. 1 Redpoll.
 56- DICKINSON, Mrs. E. F. 1 Brown Tyrant.
 DIMSDALE, Mr. John, F.Z.S. 1 Bullfinch.
 DIXON, Mrs. E. 1 Alexandrine Parrakeet.

- DOBBS, Lieut. H. C. 1 Sömmerring's Gazelle.
 DOUGLAS-PENNANT. (See under Pennant.)
 DOVER, Mrs. Basil. 1 Burrowing Owl.
 56- DRAKE-BROCKMAN, Dr. R. E., F.Z.S. 4 Pelzeln's
 Gazelles, 2 ♂ 2 ♀, 1 Caracal, 2 Cheetahs.
 DRUMMOND, Miss M. 1 Cactus Conure.
 DUCKWORTH, Miss W. B. 1 Yellow-shouldered Amazon.
 DUDLEY, Mrs. E. R. 1 Greater Sulphur-crested Cock-
 atoo.
 DUDLEY, Mr. Herbert F. 1 Alexandrine Parrakeet.
 DYER, Captain W. 1 Yellow Baboon, ♂, 1 Ring-tailed
 Lemur.
 DYER, Miss Marion. 1 Greater Sulphur-crested Cockatoo.
 ECKSTEIN, Mr. Frederich, F.Z.S. 1 Brazilian Hangnest,
 1 Blue-crowned Jay.
 EDDOWES, Dr. W. Dowley. 16 Dwarf Chameleons.
 EDWARDS, Miss Nancy. 1 Kestrel, 24 Locusts.
 EGERTON, Miss Mary F. 1 Red-eared Bulbul.
 54- EGERTON, Sir Walter, K.C.M.G., F.Z.S., and Mr. J. J.
 56- NUNAN. 1 Capybara.
 EGERTON, Sir Walter, K.C.M.G., F.Z.S. 1 African
 Tantalus.
 ELFICK, Mr. R. H. 1 White-collared Mangabey.
 ELLIOT, Miss D. 1 Yellow-bellied Liothrix.
 ELPHINSTONE, Miss Gladys. 1 Senegal Parrot.
 EVANS, Mr. Samuel. 5 Common Partridges.
 54- EZRA, Mr. Alfred, F.Z.S. 2 Black-shouldered Tanagers,
 2 Sepgy Finches, 1 White-capped Redstart, 1 Racket-
 tailed Drongo, 1 Slaty-headed Parrakeet.
 FARRINGTON, Mr. Frank. 2 Green Lizards.
 FASEY, Mr. W. J. 1 Alexandrine Parrakeet.
 FERNAU, Mr. G. F. 1 Short-toed Eagle.
 FLETCHER and SMITH, Messrs. 2 Squirrel Monkeys.
 FLINK, Miss. 1 Greek Tortoise.
 FLOWER, Mrs. Stanley. 2 Green Toads.
 FOLJAMBE, Lady Alice. 1 Grey Mongoose.
 FORRESTER, Mr. Cecil. 1 Greater Spotted Woodpecker.
 FOSTER, Mr. J. S. 1 Black-eared Marmoset.
 FOSTER, Mr. P. J. 1 Ring-necked Parrakeet.
 FOWLER, Miss Catherine. 1 Orange Weaver-bird, 2
 Budgerigars.
 FOWLER, Mr. W. A. 1 Lobed Chameleon.
 FRANKLIN, Dr. J. C. 1 Double-spurred Francolin.
 FREELAND, Mr. Herbert A. 1 Martin's Cercopitheque.

- 55, 56 - FROST, Mr. W. J. C. 2 Grey Wagtails, 4 Palm Squirrels, 2 Black-headed Wagtails, 2 Yellow-headed Wagtails, 1 Jerdon's Accentor, 1 Black-throated Accentor, 1 Indian Tree-Pipit, 1 Red-headed Bunting, 1 Temminck's Robin, 1 Brown Shrike, 2 Crested Larks, 1 Kingfisher, 2 Lesser Kestrels, 1 Horned Tragopan, 1 Little Stint.
- FUKUSHIMA, Mr. F. 16 Singing Crickets.
- FULLER, Lady, 1 Rose-ringed Parrakeet.
- GANDY, Commander G. K., R.N.R. 1 Dwarf Chameleon.
- GARLE, Mr. Henry E., F.Z.S. 3 Quails.
- GIBBS, Mr. A. 1 Pelzeln's Gazelle δ .
- GILL, Mr. A. B., F.Z.S. 1 Blue-fronted Amazon.
- GLASGOW, Miss Loveday. 1 Cockatiel.
- GOETZE, Mr. Sigismund, F.Z.S. 1 Common Peafowl δ .
- GOLD, Mrs. 2 Senegal Parrots.
- GOODISON, Mrs. 1 Meerkat.
- GOODFELLOW, Mr. Walter, F.Z.S. 1 Black-tailed Flying-Squirrel, 1 Black-winged Grackle.
- GOSLE, Major H. V., D.S.O. 1 West-African Python.
- GRAHAM, Mr. P. N. 1 Silver Pheasant η .
- GRAHAM-YOOLL, Mr. W. 6 Barbary Turtle-Doves.
- GREEN, Mrs. R. R. 1 Alexandrine Parrakeet.
- GRESWOLDE-WILLIAMS, Miss Dorithie. 1 Leopard.
- HAMILTON, Mr. Alexander P. 1 Brazilian Tortoise.
- HAMLIN, Mr. J. D. 3 Wrinkled Terrapins, 3 Adorned Terrapins.
- HAMMOND, Mrs. William. 1 Campbell's Cercopitheque.
- HANBURY, Mr. Robert J. 1 Greater Sulphur-crested Cockatoo.
- HARDING, Mr. Richard. 1 Leadbeater's Cockatoo.
- HARRIS, Miss E. M. Freeman. 1 Blue-fronted Amazon.
- HARRIS, Mr. F. W. 1 Common Boa.
- HARRISON, Capt. M. C. C. 1 African Civet Cat, 2 Two-spotted Palm-Civets.
- HARRISON, Mr. Wm. Stewart. 4 Green Cardinals.
- HART, Mr. H. C. 1 Indian Eryx.
- HARVEY, Sir Robert, Bt., F.Z.S. 2 Fallow Deer (fawns) δ η .
- HASELDEN, Mr. R. 1 Edible Frog.
- 55- HASSAN HASIB, H.E., Pasha. 1 African Civet Cat, 2 Egyptian Mongooses.
- HATFIELD, Mr. K. G. Stacey. 1 Hamster.
- HAY, Mrs. 2 Lesser Sulphur-crested Cockatoos.

- HAY, Mr. Malcolm V. 1 Short-toed Eagle.
 HEADLEY, Lord. 1 Brown Rat.
 HEFFERNAN, Mr. Tom. 1 Abyssinian Cercopitheque.
 HELSDON, Mrs. H. 1 Alexandrine Parrakeet.
 57- HEWETT, Sir John, K.C.S.I., F.Z.S. 1 Great Indian
 Bustard.
 HILL, Mr. Matthew Davenport, F.Z.S. 1 Common Boa.
 HILLS, Mrs. 1 Greater Sulphur-crested Cockatoo.
 HIND, Mr. Sydney L., C.M.Z.S. Snails.
 HINSON, Capt. William. 1 Leopard Cub.
 HOARE, Mr. W. Douro. 1 Spotted Cavy, 1 Adorned
 Terrapin.
 HOFFMANN, Mr. Frederick. 1 Squirrel Monkey.
 HOGG, Mrs. L. Jefferson. 1 Brazilian Hangnest.
 HOGGART-HILL, Mr. Digby. 1 Slender-billed Cockatoo.
 HOLLAND, Mrs. F. E. 2 Ring-tailed Lemurs ♂ ♀.
 HOLLOWAY, Mr. F. 1 Roseate Cockatoo.
 HOLMAN, Mr. E. 1 White-throated Song-Sparrow,
 1 Snow-bird.
 HOOKE, Mr. Arthur A. 1 Anubis Baboon ♀.
 HOPKINSON, Dr. E., D.S.O., F.Z.S. 1 Algerian Hedge-
 hog, 12 Orange-cheeked Waxbills, 10 Crimson-eared
 Waxbills, 7 Zebra Waxbills, 2 Quail-Finches,
 4 Magpie-Finches, 2 Crimson-winged Finches,
 4 Rufous-necked Weaver-birds, 1 Ox-bird.
 HORNBY, Mr. R. A. 2 Green Lizards, 1 Common
 Lizard.
 HORSBRUGH, Major B. R., F.Z.S. 3 Long-eared
 Hedgehogs, 1 Pied Blackbird.
 HOUBLON, Mr. J. A. 2 Coypus.
 HOUSTON, Mrs. E. 1 Bosman's Potto.
 HOWARD, Miss Nancy. 1 Egyptian Jerboa.
 HUDSON, Dr. A. Ainslie. 1 Abyssinian Cercopitheque.
 HUGHES, Miss A. 1 Mona Cercopitheque.
 HURRELL, Mr. Harry, Junr. 1 Common Viper.
 INGRAM, Sir William, Bart., F.Z.S. 36 Fireflies.
 JEPHSON, Mr. D. L. A. 1 Lesser Sulphur-crested
 Cockatoo.
 JOHNSTONE, Miss Ruth. 1 Hairy-footed Jerboa.
 JONES, Miss C. M. 1 Algerian Tortoise.
 JONES, Mr. H. A. 11 Cocoons of North American
 Silk-Moth.
 JOYCE, Miss M. 1 Serval.
 KARRAN, Mrs. W. J. 1 Orange-cheeked Waxbill.

- KENNAWAY, Mr. C. L. 8 Black Salamanders.
 KENNY, Mr. William C. 1 Hawk-billed Turtle.
 KEW, THE ROYAL BOTANIC GARDENS. 1 Black-footed Penguin.
 KIDSTONE, Mr. A. Glen. 1 Common Buzzard.
 KING-WEBSTER, Mr. H. C. 1 Buzzard, 2 Peregrine Falcons.
 KANTHACK, Mrs. 4 Budgerigars.
 KINGDON, Mr. Donald. 1 Red-footed Ground-Squirrel.
 KIRKPATRICK, Mr. R., F.Z.S. 6 Sharp-headed Lizards, 3 Porto-Santo Tarantula Spiders.
 KLOSS, Mr. C. Boden, F.Z.S. 1 Kestrel.
 KNIGHT, Miss Muriel. 1 Sooty Mangabey.
 KNOWLES, Mr. James T. 1 Grey-breasted Parrakeet.
 KOENS, Mr. Jan. H. 1 Potto.
 KRONE, Mr. Frank. 1 Greater Sulphur-crested Cockatoo.
 LAMBORN, Mr. W. A. 1 Mona Cercopitheque.
 LANCUM, Mr. F. H. 1 Little Owl.
 LANZA, Mrs. 1 Yellow-bellied Liothrix, 2 Rufous-tailed Finches, 1 Green-headed Tanager, 2 Amaduvade Finches, 4 Orange-cheeked Waxbills, 1 Zebra Waxbill, 1 Cut-throat Finch, 2 Black-headed Finches, 2 African Silver-bills, 1 Orange Weaver-bird, 1 Black-bellied Weaver-bird, 1 Hooded Siskin.
 LECONFIELD, Lord. 1 Common Roe (fawn).
 58 - LEIJONHUFVUD, The Baron, F.Z.S. 1 Surucucu, or Bushmaster.
 55 - LESTER, Mr. W. 1 Grys-bok ♂.
 LEWES, Mrs. Edward A. 2 Common Waxbills, 1 Orange-cheeked Waxbill, 1 Crimson-eared Waxbill.
 L'HOËST, Monsieur Michel, C.M.Z.S. 1 Red and Black Comb-Lizard, 1 Common Teguxin.
 LILFORD, Lord, F.Z.S. 2 Hybrid Japanese Teal.
 LITTLE, Miss Agnes. 1 Common Marmoset.
 54 - LOBB, Mr. H. P. 2 Striped Hyænas.
 LODER, Sir Edmund G., Bt., F.Z.S. 2 Coypus, 1 Weasel.
 LOYD, Mrs. A. T. 1 Little Owl.
 LUCAS, Mr. Nathaniel S., F.Z.S. 1 Kestrel.
 LUCCHESI, Mr. A. C. 1 Vulpine Opossum.
 LUFFINGHAM, Mr. W. J. 1 Common Chameleon.
 LUSTY, Mr. John. 1 Greater Sulphur-crested Cockatoo.
 LYON, Mr. A. 1 North American Turkey ♀.

LYVER, Mr. W. C., F.Z.S. 2 Ortolan Buntings.
 McCLEAN and WORMALD, Messrs. 1 Hybrid Rosy-billed
 Duck.

55- MACDONALD, Mr. Arthur C. 6 Chilian Siskins.

MACKAY, Mr. T. 2 Turtle Doves.

McKELLAR, Mr. J. S. 1 Dorsal Hyrax.

McKENZIE, Miss M. 1 Red-bellied Waxbill.

McLAUGHLIN, Mr. E. A. 1 Diana Cercopitheque.

MACRAY, Mrs. J. 1 Blue and Yellow Macaw, 1 Red and
 Blue Macaw.

MAJOR, Mrs. E. 1 Grey Parrot.

MALENS, Miss Carey. 2 Grey-headed Love-birds.

MALLET, Mrs. A. 1 Yellow-bellied Liothrix.

MARNOCK, Mr. George W. 1 Greater Sulphur-crested
 Cockatoo.

MARSDEN, Capt. 1 Grey Mongoose.

MARTIN, Mr. Edward Lynd. 1 White-throated Capuchin.

MASON, Mr. D. 1 Black-faced Spider-Monkey.

MASON, Mr. Samuel. 1 Common Marmoset.

MASTERS, Mrs. 1 Brown Capuchin.

MAYO, Mr. F. J. 1 Little Owl.

55- MEADE-WALDO, Mr. E. G. B., V.P.Z.S. 1 Ural Owl ♂,
 4 Ruffs, 2 Red-breasted Mergansers.

MILLER, Mr. T. A. J. P. 2 Common Vipers.

MILLER, Mr. Thomas. 1 Pinché Marmoset.

MILLER, the late Mr. Tinniswood, F.Z.S. 1 American
 Robin, 3 Common Vipers.

MILLER, Mrs. Tinniswood. 1 Yellow-shouldered Amazon.

MILLER, Miss Margaret. 1 Ring-tailed Lemur.

MILLS, Mr. Y. H., F.R.C.S. 1 Common Garden Snail
 (variety).

MILLSUM, Mr. O. 2 Field Saffron-Finches.

MITCHELL, Mrs. E. 1 Roseate Cockatoo.

MOCATTA, Mr. Cecil, F.Z.S. 1 West-Indian Agouti.

MONNIER, Mdle. 1 Delalande's Gecko.

MONTAGU, Mrs. 1 Ring-tailed Coati.

MONTGELAS, The Countess. 1 Green Cercopitheque.

MORGAN, Mr. E. F. 1 European Tree-Frog.

MORGAN, Mr. T. R. 2 Green-backed Porphyrios.

MORRIS, Capt. Alfred, F.Z.S. 1 Greater Sulphur-crested
 Cockatoo.

MORRIS, Mr. William. 1 Patas Cercopitheque.

53- MOSELEY, Commander F. J., R.N. 2 Grand Galagos, 1
 Blotched Genet

- MOSTYN, Mr. C. L. 1 Serval, 1 Marsh Mongoose.
 MOWATT, Mr. J. 1 Common Viper.
 MULLER, Mr. E. M. 3 Guianan Love-birds.
 MUNT, Mr. Henry, F.Z.S. 16 Pond-Snails.
 MUNTON, Mr. F. 1 Glass Snake.
 MURRAY, Major James. 1 Raven.
 NAPIER AND ETRICK, Lady. 1 Blackbird, 1 Song
 Thrush.
 NASH, Mr. E. F. 1 Tantalus Cercopitheque.
 NICOL, Mr. N. 1 Algerian Tortoise.
 NORMAN, Mr. W. A. 1 Short-tailed Wallaby, 1 Laughing
 Kingfisher.
 NORMAN, Mrs. C. F. 2 Cockatiels.
 NUNAN, Mr. J. J. (*See* Egerton, Sir Walter.) 1 Capy-
 bara.
 53 - OLIVER, Capt. Douglas G., F.Z.S. 2 Snow Leopards ♂ ♂.
 ORAM, Mrs. Minnie. 1 Greater Sulphur-crested Cockatoo.
 ORMSBY, Miss Edyttes M. 1 Kestrel.
 ORRINSMITH, Miss N. F. 1 Hamster.
 O'SULLIVAN-BEARE, Mr. D. R. 2 Black-eared Mar-
 mosets.
 PAGE, Mr. R. Pearce, F.Z.S. 1 Grey Mongoose, 2
 Egyptian Jerboas, 6 Common Chameleons, 1 Dark-
 green Snake, 2 Vivacious Snakes, 6 Common Snakes,
 1 Leopardine Snake, 1 Dahl's Snake, 1 Viperine
 Snake, 5 Slowworms.
 PALMER, Mr. G. W. 1 Cheer Pheasant.
 PARRY, Miss A. 1 Magpie.
 PATTERSON, Lieut.-Col. J. H. 1 African Civet Cat, 2
 Servals ♂ ♀.
 PEACHEY, Mrs. M. 1 Ring-tailed Opossum.
 PELHAM, Admiral F. S. 1 Goshawk.
 PEMBERTON, Mr. Percy Leigh. 1 Common Viper.
 PENNANT, Lady Edith Douglas-. 1 Black-headed
 Wagtail, 2 Ruffs.
 PENROSE, Dr. F. G., F.Z.S. 3 Common Partridges.
 PERACCA, Count Mario, D.Sc., F.Z.S. 4 Hybrid Newts.
 PHILIPPS, Lady. 3 Pin-tailed Whydah-birds.
 PHILLIPPS, Mr. Reginald. 1 Rock Thrush.
 PIKE, Mr. L. G., F.Z.S. 1 Green-cheeked Amazon.
 PIKE, Miss Lucy E. 1 Barn Owl.
 PILKINGTON, Lady Kathleen. 1 Red-shouldered Starling,
 1 Blue-crowned Jay, 1 Red-eared Bulbul, 1 Black
 Tanager, 2 Budgerigars.

- PITT, Miss Frances. 2 Black Rats, 2 Hooded Crows, 1 Tawny Owl.
- 54 - POMEROY, Mr. W. K., F.Z.S. 2 Purple Jays, 2 Golden Hangnests, 2 Severe Macaws, 2 Brown-throated Conures, 2 Yellow-fronted Amazons, 1 Tovi Parrakeet, 1 Harpy Eagle, 1 Cayenne Rail, 1 Martinique Gallinule, 2 Double-striped Thick-knees, 1 Purplish Guan, 1 Red-tailed Guan.
- POPE, Capt. E. Alexander. 1 Ring-tailed Lemur.
- POWELL, Mrs. 1 Herring Gull.
- RATTIGAN, Mr. Gerald E. 1 Rufous-necked Weaverbird, 1 Cape Dove.
- RAWSTORNE, Miss Dorothy. 1 Grey Mongoose.
- REEVE, Mr. Henry F., C.M.G. 1 Lion cub ♂.
- REEVES, Mrs. Walter. 1 Greater Sulphur-crested Cockatoo.
- 55 - REID, Capt. E. H. 1 African Buffalo ♂.
- RICHARDSON, Major, F.Z.S. 1 Swainson's Lorikeet.
- RIGG, Miss. 1 Blue-fronted Amazon.
- RITCHIE, Mr. A. T., F.Z.S. 1 Grey Seal.
- ROBERTS, Mr. Edward. 1 Broad-snouted Cayman.
- ROBERTSON, Mr. Walter. 1 Edible Frog.
- ROBINSON, Mr. A. 2 Kestrels.
- ROOPER, Mr. Henry Napier, F.Z.S. 1 Martin's Cercopitheque.
- RUBECK, Mrs. 1 Red and Blue Macaw.
- RUSSELL, Dr. A. P. 12 Leaf Insects.
- SAFFHILL, Mr. Walter. 1 Tantalus Cercopitheque ♂.
- 58 - ST. QUINTIN, Mr. W. H., F.Z.S. 1 Stoat, 1 Shag, 1 Pink-browed Rose Finch, 1 Prince of Wales's Pheasant, 2 Glass Snakes.
- SALTER, Mr. Joseph. 1 Ceylonese Terrapin.
- SAMPSON, Dr. C. A. 2 Common Chameleons.
- SAVAGE, Mr. H. S. 1 Black-eared Marmoset.
- SCRIVENER, Miss Maude. 1 Slowworm.
- SEWELL, Mr. F. S. 1 Rose-ringed Parrakeet.
- SHARP, Mr. H. 1 Saffron Finch.
- SHARP, Mrs. 1 Lesser Sulphur-crested Cockatoo.
- 54 - SHAW, The Rev. Archibald. 1 Snake-Fish.
- SHERIFF, Mr. W. 1 Tantalus Cercopitheque.
- SHOLL, Mr. Edward H. 1 Cut-throat Finch, 2 Barbary Turtle-Doves, 1 Skylark.
- SHOOLBRED, Mr. Rupert. 1 Wild Cat.
- SHORTER, Mrs. Clement. 2 Chaffinches.

- SHOTTIN, Mrs. A. 1 Greater Sulphur-crested Cockatoo.
 SHUFELDT, Dr. R. W., C.M.Z.S. 1 Alligator Terrapin,
 1 Sculptured Terrapin.
 SHUFELDT, Mrs. R. W. 1 American Box Tortoise.
 SKELTON, Mr. J. W. A. 2 Common Marmosets.
 SLADEN, Lt.-Col. E. S. St. B., F.Z.S. 1 Roseate Cockatoo.
 SMART, Miss Mary. 1 Greater Sulphur-crested Cockatoo.
 SMITH, Mr. A. C. 1 Roseate Cockatoo.
 SMITH, Messrs. A. and M. 1 Common Seal.
 SMITH, Mr. C. Lewis (*see* Fletcher and Smith). 2 Squirrel
 Monkeys.
 56- SMITH, Mr. M. H. Bosworth. 1 Vaal Rhe-bok δ .
 SMITH, Lt.-Col. J. Manners, V.C., C.I.E., C.V.O. 8 Lesser
 Pin-tailed Sand-Grouse, 7 Painted Sand-Grouse.
 SMITH, Miss M. Mason. 1 Roseate Cockatoo.
 SMITH, Mrs. 1 Greater Sulphur-crested Cockatoo.
 57- SMITHERS, Mr. Wilfred A., C.M.Z.S. 1 Pampas Cat,
 3 Pampas Gerbilles, 2 Pampas Field-Mice, 1 Pampas
 Cavy, 2 Hairy Armadillos, 2 Red-bellied Thrushes,
 1 Argentine Mocking-bird, 3 Pileated Song-Sparrows,
 3 Pelzeln's Saffron-Finches, 2 Bay Cow-birds, 4 Silky
 Cow-birds, 5 Picui Doves, 6 Spotted Tinamous.
 SNELLING, Mr. Jack. 1 Tawny Owl.
 SOLMERSITZ, Mr. Eugene. 1 Kinkajou.
 SPARKS, Mrs. Rose. 3 Magpies.
 SPEARPOINT, Mrs. E. 1 Bare-eyed Cockatoo.
 SPENCER, Mrs. Arthur. 1 Alligator.
 SPICER, Mr. Gilbert H., F.Z.S. 1 Little Auk.
 SPREATLEY, Mrs. 1 Algerian Tortoise.
 54-
 56. SPURRELL, Dr. H. G. F., F.Z.S. 1 Burnett's Cerco-
 pitheque, 1 Bosman's Potto, 1 Two-spotted Palm-
 Civet, 3 Gambian Pouched Rats, 2 White-spotted
 Squirrels, 1 Spurrell's Dormouse, 1 Bay Duiker, 1
 Eroded Cinixys, 3 Green Tree-Snakes, 1 Kirtland's
 Tree-Snake, 1 Spotted Burrowing Snake, 4 Nose-
 horned Vipers, 1 Green Viper, 2 Gaboon Vipers, 1
 Black and White Cobra, 2 Smyth's Snakes, 12 Six-
 banded Cyprinodons.
 STACEY, Mr. Bernard. 4 Barbary Turtle Doves.
 STANLEY, Miss Diana. 1 Green Lizard.
 STENNING, Mr. Walter. Collection of Jumping Beans.
 STOBART, Mr. Fred W. 5 Red Foxes.
 STOCKWELL, Mrs. Maitland. 1 Blossom-headed Parrakeet.
 STRAKER, Mrs. 1 White Stork.

- STRICKLAND, Mrs. 1 Dwarf Chameleon.
 STRICKLAND, Miss A. T. 1 Ring-necked Parrakeet.
 STRODE, Miss A. C. 1 Green Lizard.
 SUTHERLAND, His Grace The Duke of, K.T., F.Z.S.
 1 European Flamingo, 2 Demoiselle Cranes.
 TAIT, Mr. William C., C.M.Z.S. 2 Crossbills.
 TALBOT, Mr. P. A., F.Z.S. 1 Eroded Cinixys.
 TANGYE, Sir Lincoln, Bt., F.Z.S. 1 Peregrine Falcon.
 TASSELL, Mrs. 1 Greater Sulphur-crested Cockatoo.
 57- TAVISTOCK, The Marquis of, F.Z.S. 2 Great-billed
 Ravens, 1 Black-hooded Parrakeet.
 TESCHEMAKER, Mr. W. E. 1 Shaw's Gerbille.
 THEAKSTON, Mr. Paul. 3 Brown Bears.
 THOMPSON, Mr. F. G. 1 Raven.
 THOMPSON, Mr. J. M. 1 Egyptian Jerboa.
 THOMSON, Mr. W. 1 Purple-faced Langur.
 THORNTON, Mr. F. 1 Horned Lizard.
 THORPE, Mr. D. Losh. 1 Knot.
 THWAITES, Capt. H. F. O., R.E. 1 Serval ♂.
 TOLSON, Mrs. M. C. 1 Roseate Cockatoo.
 TOWNLEY, Sir Walter, K.C.M.G. 1 Blue and Yellow Macaw.
 TOWNSEND, Mr. F. W. 1 Himalayan Bear.
 TRACY, Mr. C. H. S. 1 Squirrel Monkey.
 TREVOE, Mr. Frank M. 1 Orang-Utan ♂.
 TRIER, Mr. Frank. 1 Raven.
 TUCKER, Mr. W. G. 1 Buzzard.
 USBORNE, Capt. George, R.N. 1 Mozambique
 Cercopitheque.
 VAN DELPT, Mr. A. 4 Midwife Toads.
 VICKERS, Miss A. 1 Lesser Sulphur-crested Cockatoo.
 VIPAN, Capt. J. A. M., F.Z.S. 1 African Lepidosiren.
 WAINE, Mr. A. B. 1 Algerian Tortoise.
 WAIT, Miss Louisa M. St. A. 1 Hooded Siskin, 1 Sul-
 phury Seed-eater, 1 Grey-necked Serin Finch, 1 Olive
 Finch, 1 Blue-breasted Waxbill, 1 Indian Shama.
 WALDO. (See Meade-Waldo.)
 WALFORD, Miss M. L. 1 Grey Parrot.
 WALKLATE, Mr. H. 1 Two-spotted Palm-Civet.
 WALLACE, Mrs. Williamson. 1 Laughing Kingfisher.
 WALTER, Mr. Claud R., F.Z.S. 1 Florida Tortoise, 1
 Painted Terrapin, 2 Speckled Terrapins, 1 Long-
 necked Terrapin, 2 Green Lizards, 3 Common
 Lizards, 4 Wall Lizards, 4 Natterjack Toads, 1 Green
 Toad, 4 Palmated Newts.

- 54 - WARD, the late Mr. Rowland, F.Z.S. 1 Reticulated Python.
- WARWICK, The Countess of, F.Z.S. 1 Green Cercopitheque.
- WATERFIELD, Mrs. 4 White-rumped Gerbilles.
- WATERHOUSE, Miss Violet. 1 Cockatiel.
- WATKINS, Mr. H. T. G. 19 Cocoons of Atlas-Moth, 4 Cocoons of Moon-Moth, 4 Cocoons of unknown species.
- WATKINS, Mrs. 4 Pintails, 2 ♂, 2 ♀.
- WEBB, Mr. Arthur S. 1 Yellow-shouldered Weaverbird.
- WHEELER, Mr. Gervase. 3 Locusts.
- WHINNEY, Mr. A. F., F.Z.S. 1 Red-legged Partridge.
- WHITE, Mr. Alfred, F.Z.S. 1 Bird-eating Spider.
- WHITEHEAD, Mr. R. H. 1 Red-bellied Cercopitheque, 1 Martin's Cercopitheque.
- WHITLAW, Miss R. M. 1 Cinereous Waxbill, 1 Brazilian Cockroach.
- WIATT, Mrs. 1 Blue and Yellow Macaw.
- WILLIAMS, Mr. Carl. 2 Great Bustards ♂ ♀.
- WILLIAMS, Mr. H. B. 1 Bonnet Macaque.
- WILSON, Mr. Noel S. 1 Common Teguxin.
- 55, 56 - WINGATE, Lt.-Gen. Sir Francis Reginald, G.C.V.O., K.C.M.G., K.C.B., D.S.O., H.M.Z.S. 1 Kordofan Giraffe ♂, 1 Shoebill.
- WINGFIELD, Mr. Maurice, C.M.G. 4 Common Fire-Finches, 2 Pintailed Whydah-birds.
- WOLFF, Capt. H. P. 1 Sharpe's Wood-Owl.
- WORMALD, Mr. Guy. 2 Egyptian Jerboas.
- WORMALD. See Messrs. McClean & Wormald. 1 Hybrid Rosy-billed Duck.
- 53 - WRIGHT, Mr. Francis. 1 White-throated Capuchin.

SPECIAL GARDEN IMPROVEMENT FUND.

H.M. the King, after his visit to the Gardens in 1911, graciously sent a donation of 50 guineas to the funds of the Society. The Council, as reported last year, decided to place this to a Special Improvement Fund to which Fellows were invited by circular to contribute. They resolved to appropriate what was received

to certain definite improvements, mentioned below, and to ask contributors to indicate any preference that they might have.

Nature of Work.	Approximate Cost. £
Provision of Coloured Pictorial Labels for the Collection	300
Outdoor Cages for Anthropoid Apes and Monkeys	1,000
Lighting and Heating of the Reptile House and construction of Out-door Crocodile Pond	600
Moving Gardeners' Department to North Bank and clearing Site for future development	1,400

The total amount received in 1911 and 1912, including a special donation of £592 18s. 4d., from the President of the Society, H.G. the Duke of Bedford, amounted to £2,158 16s. 4d. Of this total, the President's special contribution was given for the purpose of completing the clearance of the site temporarily occupied by the Nepal and Malay Collections, and so preparing the way for such a large scheme as has now been made possible by Mr. J. Newton Mappin's generosity; £161 10s. 0d. was earmarked by the donors for coloured labels; £42 3s. 0d. for the Reptile House; £41 14s. 0d. for Outdoor Cages for Monkeys, whilst the remainder was either destined for moving the Gardeners' Department or was left to the decision of the Council.

The expenditure paid out of the Fund has been as follows:—

(1.) General Purposes—

Moving Gardeners' Department	£1,154	9	9
„ Swine Enclosures ...	164	9	5
„ Dung-pound	328	16	4
Clearing site and burning ballast	265	13	10
	<hr/>		
	£1,913	9	4
	<hr/>		

Thus the largest part of the scheme has been accomplished.

(2) Provision of Coloured Pictorial
Labels for the Collection... £47 1 3

The prosecution of this most important improvement could not be hurried until a satisfactory method had been discovered. Sketches in oil-paints on zinc, such as those formerly employed in our Gardens, or on wood, as in the Bronx Park at New York, fade very rapidly with exposure. Various methods of mounting sketches in glass frames proved unsatisfactory, and drawings made with fusible colours on opaline glass, such as are used in the Antwerp Zoological Gardens, were impermeable to the atmosphere, but were brittle and presented great difficulties to the artists. Mr. Gerald Duckworth, F.Z.S., directed the attention of the Secretary to the process of the Jerne Indelible Showcard Co., the Manager of which took much trouble to devise a method suitable for our purpose. Either coloured prints or water-colour drawings on special paper can be employed, and the result is extremely attractive and appears to be highly resistant to light and weather, and labels are now being made as quickly as possible.

The balance of £114 8s. 9d. to the credit of the label account on December 31st, 1912, will probably be expended in the course of 1913; the amounts contributed for outdoor cages for monkeys and for improvements at the Reptile House will be held over until they can be made up to the sums required.

STATE OF THE FINANCES.

The Report of the Auditors of the Accounts for 1912 is issued to Fellows, bound at the end of this Report. In 1905, the Auditors, acting on the advice of Mr. W. B. Keen, F.Z.S., Chartered Accountant, the professional Auditor of the Society, issued their Report on the finances of 1904 in a new form, replacing the old statement of Assets and Liabilities by a formal Balance Sheet, and the old statement of Receipts and Payments within the year by a dissection of Income and Expenditure belonging to the year. The Auditors of the Accounts of the year 1906, after discussion of the principles involved, continued

the new system, which has been followed since. As, however, some of the Fellows prefer a statement on the simple Receipts and Payments system, such information is given in the next paragraph.

The total sum actually received within the year was £45,692 7s. 2d. From this there has to be deducted the overdraft brought forward from Dec. 31st, 1911, amounting to £1,664 8s. 1d., leaving £44,027 19s. 1d. Of this total £894 12s. 4d. was contributed to the Special Garden Improvement Fund, dealt with in a separate account (see page 77 of this Report), and so is deducted here, leaving £43,133 6s. 9d. There is also to be deducted the sum of £795, invested to add to the Composition Account (being the fees of 17 new compounders at £45, and of one Fellow elected before November 26th, 1906, who compounded in 1912 at the old rate of £30). There was thus left the sum of £42,338 6s. 9d. available for the expenditure of the year. The ordinary payments for the year amounted to £37,444 2s. 7d., leaving a balance on the working of the Society for the year amounting to £4,894 4s. 2d. From this has to be deducted the sum of £2,000, the portion of the loan repaid to the Bankers, and £1,002 11s. 7d., interest on the loan, leaving £1,891 12s. 7d. available for extraordinary expenditure. Of that sum a total of £955 6s. 5d. was expended in connection with the Malay and Nepal Collections. There was thus left a surplus at the end of the year amounting to £936 6s. 2d. made up by a balance at the Bank of £787 2s. 9d. and cash at the office amounting to £149 3s. 5d.

It will be noticed that the details of the above figures do not correspond exactly with the similar entries in the Auditors' report, as what is given here is a summary of the actual payments within the year, whilst the Auditors analyse the figures so as to make them refer to expenditure strictly belonging to the year.

Comparison of Balance Sheet 1911 and 1912.

ASSETS.	1911.			1912.			Comparison.			
	£	s.	d.	£	s.	d.	£	s.	d.	
Animals in the Menagerie.....	18,474	0	0	19,106	15	0	+	632	15	0
Freehold Premises, Hanover Square	30,000	0	0	30,000	0	0		—		
Books in the Library.....	22,397	9	4	22,805	12	3	+	408	2	11
Unsold Publications	500	0	0	500	0	0		—		
„ “Zoological Record”	800	0	0	800	0	0		—		
Debts due to the Society	750	6	9	784	6	4	+	33	19	7
Balance of Cost of Drainage, to be repaid by instalments	55	0	0	11	0	0	-	44	0	0
Rates paid in advance	273	7	9	295	19	6	+	22	11	9
New Composition Fund (invested)	3,945	0	0	4,695	0	0	+	750	0	0
New Composition Fund (awaiting invest- ment)	—			45	0	0	+	45	0	0
Workmen's Compensation Fund Account	126	10	8	142	12	0	+	16	1	4
Cash at Bank	—			787	2	9	+	787	2	9
Cash in hand at Office	127	1	6	149	3	5	+	22	1	11
Cash at Bank, Garden Improvement Fund	1,264	4	0	198	5	9	-	1,065	18	3
	£78,713	0	0	£80,320	17	0	+	1,607	17	0

LIABILITIES.	1911.			1912.			Comparison.			
	£	s.	d.	£	s.	d.	£	s.	d.	
Sundry Creditors and Rent and Taxes ...	1,617	4	5	1,434	5	1	-	182	19	4
Messrs. Drummond, Loan Account.....	28,000	0	0	26,000	0	0	-	2,000	0	0
Subscriptions received in advance	336	14	0	343	5	0	+	6	11	0
Reserve for Liability under Workmen's Compensation Act	126	10	8	142	12	0	+	16	1	4
Overdraft at Bankers.....	1,791	9	7	—			-	1,791	9	7
	£31,871	18	8	£27,920	2	1	-	3,951	16	7

	1911.			1912.			Comparison.			
	£	s.	d.	£	s.	d.	£	s.	d.	
BALANCE, being Excess of Assets over Liabilities—										
Composition Fund (not separately in- vested)	3,348	0	0	2,680	0	0	-	668	0	0
New Composition Fund (separately invested)	3,945	0	0	4,740	0	0	+	795	0	0
General Purposes	38,283	17	4	44,784	14	2	+	6,500	16	10
Garden Improvement Fund	1,264	4	0	196	0	9	-	1,068	3	3
	£46,841	1	4	£52,400	14	11	+	5,559	13	7

The improvement in the Balance of £5,559 13s. 7d. is the sum of the net increase in Assets *plus* the net decrease of Liabilities. As was arranged, the sum of £2,000 was repaid to the Bankers, so that the Loan Account now stands at £26,000. The option of purchase has not been exercised on Hanover Square, but, as the site is now occupied by a substantial building actually in use, the security has increased greatly in value. Although no credit is taken for the buildings at the Gardens, the balance of assets over liabilities (General Purposes) now stands at the substantial figure of £44,784 14s. 2d.

The item "Composition Fund (not separately invested)," which stood in 1905 at over £7,000, has now been written down to £2,680, and will soon disappear. Since 1905 all composition fees have been actually invested, and the New Composition Fund now stands at £4,740, and represents a real cash asset.

Comparison of Income, 1911 and 1912.

	1911.			1912.			Comparison.			
	£	s.	d.	£	s.	d.	£	s.	d.	
Admission Fees	1,575	0	0	1,530	0	0	-	45	0	0
Subscriptions (Fellowship)	9,834	0	0	10,246	0	0	+	412	0	0
Composition Fees (proportion of uninvested Fund transferred in respect of the year)	736	0	0	668	0	0	-	68	0	0
Interest on Composition Fees invested ...	113	10	7	144	0	7	+	30	10	0
Sale of Animals, &c.	419	9	6	1,017	17	6	+	598	8	0
Rent of Refreshment Rooms	1,000	0	0	1,000	0	0		—		
Rent of Bath-chairs	11	0	0	11	0	0		—		
Rents—Hanover Square	548	9	5	1,200	0	0	+	651	10	7
Admission to Gardens	20,590	19	10	23,818	18	10	+	3,227	19	0
Riding Receipts	735	4	7	911	11	11	+	176	7	4
"Garden Guide" and Post-card sales, less expenses, printing, &c.	909	19	2	969	18	5	+	59	19	3
Rent of Lavatories	98	5	11	139	7	5	+	41	1	6
"Zoological Record" Sales	119	3	5	216	4	3	+	97	0	10
Sale of Ivory Tickets, and Artists' and Photographers' Permits	33	0	0	17	5	0	-	15	15	0
Miscellaneous Receipts	8	16	0	13	8	10	+	4	12	10
Lectures, Grant from London County Council, less expenses	—			28	19	6	+	28	19	6
British Beekeepers' Association, Rent ...	—			32	2	0	+	32	2	0
	£36,732	18	5	£41,964	14	3	+	£5,231	15	10

A rather smaller number of Fellows was elected in 1912 than in 1911, but in every important respect the income was improved and was the largest in the history of the Society.

Comparison of Ordinary Expenditure, 1911 and 1912.

	1911.			1912.			Comparison.			
	£	s.	d.	£	s.	d.		£	s.	d.
Rent, Rates, &c., Gardens	1,520	17	2	1,559	14	7	+	38	17	5
Charge set aside under Workmen's Compensation Act	25	0	0	25	0	0	—			
Charges under Licensing Act, 1904	29	6	8	25	15	0	—	3	11	8
Rates, Taxes, &c., Hanover Square.....	—			49	11	8	+	49	11	8
Salaries, Gardens	6,768	14	7	7,119	15	4	+	351	0	9
Do. Office	1,715	12	8	1,879	13	10	+	164	1	2
Pensions, Gardens	496	13	4	557	6	8	+	60	13	4
Do. Office	759	0	0	794	0	0	+	35	0	0
Provisions	5,507	12	0	6,767	0	1	+	1,259	8	1
Cost and Carriage of Animals	1,160	1	10	1,459	17	4	+	299	15	6
Menagerie Expenses	3,124	19	6	3,148	10	4	+	23	10	10
Prosectorium Expenses.....	815	12	4	841	16	10	+	26	4	6
Works (Ordinary)	3,828	6	5	3,785	1	5	—	43	5	0
Gardeners' Expenses	1,583	13	2	1,599	18	7	+	16	5	5
Advertisements	745	7	9	366	1	3	—	379	6	6
Band Expenses (Net)	106	15	10	104	11	6	—	2	4	4
House and Office Expenses, Gardens	331	1	5	253	15	1	—	77	6	4
Do. do. Principal Offices...	1,110	2	5	1,122	0	6	+	11	18	1
Stationery and Printing (Miscellaneous)	507	2	7	470	3	0	—	36	19	7
Cost of Publications (Net).....	1,108	2	8	1,067	19	11	—	40	2	9
Cost of "Zoological Record" (Net).....	259	6	0	420	4	0	+	160	18	0
Library Expenses	577	6	7	635	6	1	+	57	19	6
Law Expenses and Fees	49	6	0	102	10	1	+	53	4	1
Lecture Expenses (net).....		10	3				—	0	10	3
Cost of Medals	3	12	6	3	14	6	+	0	2	0
Photographic Exhibition	—			29	6	10	+	29	6	10
TOTALS	£32,134	3	8	£34,188	14	5	+	£2,054	10	9

With the growth of the Society, the expenditure continues to increase. The most serious item was the increase in the cost of provisions, due largely to the higher prices that had to be paid for hay, straw, and horses. The decrease in the cost of advertisements was due to there being no expenditure on posters in the course of the year.

CONCLUSION.

The Council are again able to congratulate the Fellows on the steady progress of the Society. The total number of Fellows and the income derived from their subscriptions continues to increase, and notwithstanding the rather unfavourable weather, the attendance of visitors and the receipts for their admission were the highest in the history of the Society. Improvements at the Gardens continue to be made as rapidly as the financial position permits, and the scientific work of the Society has been maintained at a high level of efficiency.

In the course of the year the following meetings for the business of the Society have been held :—

Council	...	...	...	...	...	19
Monthly Business Meetings			...	...	...	10
Scientific Meetings	...	...	...	...	...	12
Garden Committee	...	...	...	...	...	12
House and Library Committee	...	...	...	...	...	5
Publication Committee	...	...	...	...	...	12
Prosectorial Committee	...	...	...	...	...	10
Zoological Record Committee	...	...	...	...	...	1
Finance Committee	...	...	...	...	...	12

The Council wish to acknowledge the assistance they have received during the past year from the Committee of Publication, upon which are devolved, in accordance with the By-laws, the arrangement and supervision of the Society's Scientific Publications.

The Council have finally to ask you to thank those Fellows of the Society who have audited the Accounts for the past year.

Signed (for the Council),

P. CHALMERS MITCHELL,

Secretary.

Regent's Park, N.W.,

19th March, 1913.

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

APPOINTED JANUARY 15TH, 1913.

THE Committee of Auditors of the Zoological Society of London (with the assistance of the Professional Auditor, who has certified the whole of the Accounts in detail), having examined the books and accounts for the year ended 31st December, 1912, submit to the Society an abstract of the Accounts, together with an estimate of the Assets and Liabilities at the close of the year.

It will be seen that the excess of Income over Ordinary Expenditure has been £7,775 19s. 10d. while there has been an Extraordinary expenditure of £1,907 18s. 0d. including interest on the Loan from the Bankers for the New Buildings, which Loan has been reduced by £2,000 and now stands at £26,000 for which the Bankers hold security.

The old Composition Fund, not separately invested, has been reduced by the transfer of £668 to Income and Expenditure Account in accordance with the usual practice, while the new Composition Fund has been increased by Composition fees received amounting to £795. This Fund now stands at £4,740 and is separately invested, the Income therefrom being carried into the Income and Expenditure Account.

The investments in

£3,411 1s. 0d. India 3½ per cent. Stock,

£1,443 19s. 1d. London County 3½ per cent. Stock
and

£123 1s. 0d. 2½ per cent. consolidated Stock

which stand in the Balance Sheet at the cost price of £4,795 had on December 31st, 1912, a market value of £4,465 10s. 0d.

BALANCE SHEET,

LIABILITIES.

	£	s.	d.	£	s.	d.
To Sundry Creditors for Rent, Taxes, &c. ...				1,434	5	1
„ Messrs. Drummond—						
Loan Account	28,000	0	0			
<i>Less</i> Paid off during year	2,000	0	0			
				26,000	0	0
„ Subscriptions received in advance				343	5	0
„ Reserve for liability under Workmen's Compensation Act				142	12	0
 BALANCE, BEING EXCESS OF ASSETS OVER LIABILITIES, viz. :—						
Composition Fund (not separately invested)—						
Balance at January 1st, 1912	£3,348	0	0			
<i>Less</i> Amount transferred to Revenue	668	0	0			
				2,680	0	0
 New Composition Fund (separately invested)—						
Balance at January 1st, 1912	£3,945	0	0			
<i>Add</i> 17 Fees at £45 received during year	765	0	0			
1 Do. at £30	30	0	0			
				4,740	0	0
 General Purposes—						
Balance at January 1st, 1912	38,283	17	4			
<i>Add</i> Excess of Income over Ordinary Expenditure	7,775	19	10			
				46,059	17	2
<i>Less</i> Extraordinary Expenditure	1,907	18	0			
				44,151	19	2
<i>Add</i> Increase in value of total stock of Animals	632	15	0			
				44,784	14	2
„ Gardens Improvement Fund Account... ..				196	0	9
				52,400	14	11
				£80,320	17	0

ASSETS.

	£	s.	d.	£	s.	d.
By Animals in the Menagerie at Regent's Park at 31st December, 1911, estimated at	18,474	0	0			
<i>Add</i> Increase in value at 31st December, 1912	632	15	0			
				19,106	15	0
„ Freehold Property at Hanover Square, as per last Balance Sheet				30,000	0	0
„ Buildings and Enclosures at the Gardens, Regent's Park (not valued)						
„ Books in Library (including purchases in 1912, £408. 2s. 11d.)				22,805	12	3
„ Unsold Publications as at 31st December, 1908 ...				500	0	0
„ Stock of "Zoological Record" as at 31st December, 1908				800	0	0
„ Debts due to the Society (since received or con- sidered good)—						
Rent for Refreshment Rooms	250	0	0			
Rent for Bath Chairs	2	10	0			
Garden Sales	67	9	3			
Arrears of Fellowship Subscriptions, £206 estimated to realise... ..	45	0	0			
Messrs. Spiers & Pond for Lavatories, &c.	145	14	7			
Publication Sales	190	11	10			
L. C. C. Lecture Fees, proportion accrued due	33	6	8			
Telephone Deposit	1	0	0			
British Bee Keepers' Association ...	48	14	0			
				784	6	4
„ Drainage at Refreshment Rooms, as per last Balance Sheet	55	0	0			
<i>Less</i> Instalments received from Messrs. Spiers & Pond	44	0	0			
					11	0
„ Rates and Insurance paid in advance				295	19	6
„ Investments of New Composition Fund, £1,443. 19s. 1d., London County 3½ per cent. Stock	1,440	0	0			
£3,411. 1s. 0d. India 3½ per cent. Stock ...	3,255	0	0			
				4,695	0	0
„ Investment of Workmen's Compensation Fund, £123. 1s. 0d. 2½ per cent. Consolidated Stock				100	0	0
„ Cash at Bank, General Account				936	6	2
„ Cash at Bank, Workmen's Compensation Fund Account				42	12	0
„ Cash at Bank, Gardens Improvement Fund ...				198	5	9
„ Cash at Bank, Composition Fund Account ...				45	0	0
				£80,320	17	0

INCOME AND EXPEN

FOR THE YEAR ENDED

ORDI

<i>INCOME.</i>				£	s.	d.	£	s.	d.
Admission Fees (New Fellows)	...	...	...				1,530	0	0
Subscriptions (Fellows)	...	...	...				10,246	0	0
Compositions—									
Proportion of uninvested Fund transferred in respect of the year—									
28 Fellows deceased during the year	...	...	...	42	0	0			
313 Fellows at £2	...	...	...	626	0	0			
							668	0	0
Interest on Composition Fees invested	...	...	...				144	0	7
Sale of Animals, &c.	...	...	...				1,017	17	6
Rent of Refreshment Rooms	...	...	...				1,000	0	0
Rent of Bath Chairs	...	...	...				11	0	0
Rents, Hanover Square	...	...	...				1,200	0	0
Admissions to Gardens...	...	...	...				23,818	18	10
Riding Receipts...	...	...	...				911	11	11
Sale of Official Guides and Postcards	...	...	...	1,385	4	10			
<i>Less</i> Expenses, Printing, &c.	...	...	...	415	6	5			
							969	18	5
Lavatories	...	...	...				139	7	5
Sale of "Zoological Records"	...	...	...				216	4	3
Sale of Transferable Ivory Tickets and Artists' and Photographers' Permits	...	...	...				17	5	0
Miscellaneous Receipts...	...	...	...				13	8	10
Lecture Grant from London County Council	...	...	...	100	0	0			
<i>Less</i> Expenses	...	...	...	71	0	6			
							28	19	6
British Bee Keepers' Association, Rent				32	2	0
Carried forward							£41,964	14	3

DITURE ACCOUNT.

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31ST DECEMBER, 1912.

NARY.

EXPENDITURE.

	£	s.	d.	£	s.	d.
Rent, Rates, Taxes and Insurance, Gardens ...				1,559	14	7
Amount set aside for Liability under Workmen's Compensation Act				25	0	0
Charges under Licensing Act, 1904				25	15	0
Salaries, Staff and Keepers, Gardens				7,119	15	4
Do. Office				1,879	13	10
Pensions, Gardens				557	6	8
Do. Office				794	0	0
Provisions, including Storekeeper's Wages				6,767	0	1
Cost and Carriage of Animals				1,459	17	4
 Menagerie Expenses :—						
Coke	681	2	3			
Straw	452	2	11			
Water and Pumping	746	14	3			
Keepers' Uniforms	224	5	9			
New Cages, Fittings, &c.	148	12	8			
Sand, Sawdust, Turf, &c.	222	16	0			
Medical Attendance	65	19	0			
Labels and Drawings	167	1	1			
Sanatorium and Veterinary Expenses	73	7	7			
Carts Repairs, Saddlery, &c.	76	10	3			
Cleaning Materials and Disinfectants	157	1	5			
Refuse removal	55	1	2			
Unclassified	77	16	0			
				3,148	10	4
 Prosectorium Expenses :—						
Salaries	750	16	11			
Other Expenses	90	19	11			
				841	16	10
 Maintenance of Buildings, Paths, &c., Gardens :—						
Wages	2,027	2	0			
Materials	1,757	19	5			
				3,785	1	5
 Gardener's Expenses :—						
Wages	1,405	15	10			
Other Expenses	194	2	9			
				1,599	18	7
Advertisements				366	1	3
Band Expenses (net cost)				104	11	6
Fuel, Light, &c., at Superintendent's and Keepers' Offices and Houses at Gardens				253	15	1
 House and Office Expenses, Central Office :—						
Wages of Housekeeper, Servants and Messengers	305	13	4			
Fuel, Light and Water	126	15	8			
Postage and Other Expenses	689	11	6			
				1,122	0	6
Carried forward				£31,409	18	4

INCOME.

	£	s.	d.
Brought forward	41,964	14	3

£41,964 14 3

EXTRA

	£	s.	d.
Donation towards Expenses of Nepal Collection	50	0	0
Balance, being Extraordinary Expenditure carried to Balance Sheet	1,907	18	0

£1,957 18 0

DAVIS

	<i>£1,900 London and South Western Railway</i>		
Dividends	£71	11	4

We certify that we have examined the foregoing Accounts with the Books and We have also verified the Bankers' Balances and the Securities.

Zoological Society of London,
Regent's Park, N.W.,
February 27th, 1913.

EXPENDITURE.

	£	s.	d.	£	s.	d.
Brought forward				31,409	18	4
Stationery and Miscellaneous Printing				470	3	0
Cost of Publications	1,874	3	2			
<i>Less</i> Subscriptions and Sales	806	3	3			
				1,067	19	11
Preparation of "Zoological Record" and Index ...	686	15	4			
<i>Less</i> Contribution from Inter- national Catalogue ... £150 0 0						
Grant from Royal Society	45	0	0			
Transfer from Davis Fund	71	11	4			
	266	11	4			
				420	4	0
Library Expenses:—						
Salaries	498	18	4			
Binding	130	13	3			
Other Expenses	5	14	6			
				635	6	1
Law Expenses				102	10	1
Cost of Silver Medal				3	14	6
Photographic Exhibition (net cost)				29	6	10
Property Tax—Hanover Square				49	11	8
Balance, being Excess of Income over Ordinary Expenditure, carried to Balance Sheet... ..				7,775	19	10
				£41,964	14	3

ORDINARY.

	s.	d.
Works at Gardens:—		
Nepal and Malay States Exhibition	823	13 11
Federated Malay States Collection	131	12 6
Interest on Loans	1,002	11 7
	£1,957	18 0

TRUST FUND.

New 4 per cent. Preference Stock. (Present value £1,957.)

Payments to Editor of "Zoological Record" ...	£71 11 4
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Vouchers of the Society, and have found them to be in accordance therewith.

JOHN HOPKINSON (<i>Chairman</i>), COL. FREDERICK B. BUNNY, THOMAS W. GITTENS, FREDERICK J. GOODCHILD, WILLIAM HUNTSMAN, LEWIS MEDLAND, ARTHUR THOMAS.	} <i>Committee of Auditors.</i>
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W. B. KEEN,
Chartered Accountant.

