

REPORTS

OF THE

COUNCIL AND AUDITORS

OF THE

ZOOLOGICAL SOCIETY

OF LONDON,

FOR THE YEAR 1922.

PREPARED FOR THE ANNUAL GENERAL MEETING,

TO BE HELD ON

MONDAY, APRIL 30<sup>TH</sup>, 1923.

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1923.

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## REPORT OF THE COUNCIL

*for the year ending 31st December, 1922.*

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### ANNUAL GENERAL MEETING.

1. The Ninety-fourth Annual General Meeting of the Society will be held on Monday, April 30th, 1923, at 4 p.m., at the Offices of the Society, in the Gardens, Regent's Park, N.W.S.

#### 2. PROCEDURE AT THE ANNUAL GENERAL MEETING.

*(By-laws, Chapter VIII., Sections 1 and 2.)*

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 proceeding 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.

3. ROLL OF MEMBERS.—The number of Fellows and Fellows-Elect on January 1st, 1922, was 5,234, and on January 1st, 1923, was 5,425.

	1921.	1922.
Compounders at £30 ... .. (Elected before 1906)	628	606
Compounders at £45 .. .. (Elected since 1905)	207	216
Compositions remitted ... ..	34	31
Paying annually £3 ... ..	4,147	4,323
Dormant (paying £1 since 1911)... ..	170	174
Do. subscriptions remitted... ..	14	14
* Admission Fees unpaid ... ..	34	61
	5,234	5,425

\* This entry relates almost entirely to Fellows elected at the December Meeting, who did not pay their dues until January, 1923.

4. FOREIGN MEMBERS:—The following, of whom all but H.H., the Prime Minister of Nepal were already Corresponding Members, were elected Foreign Members:—

H.H. Maharaja Bahadur Rana General Sir Chandra Shum Shere, G.C.B., G.C.S.I., G.C.M.G., G.C.V.O., D.C.L., Prime Minister of Nepal, Nepal.

Heer F. E. Blaauw, Gooilust, 's Graveland, Noord Holland.

Monsieur Guillaume Grandidier, 2, Rue Goethe, Paris, France.

Edmund B. Wilson, Esq., Ph.D., Professor of Zoology, Columbia University, New York, U.S.A.

5. CORRESPONDING MEMBERS.—The following were elected to fill vacancies in the List of Corresponding Members during 1922:—

Dr. F. Baker, Superintendent of the National Zoological Park, Washington, U.S.A.

Harry Burrell, Esq., La Mascotte, Doncaster Avenue, Kensington, Sydney, New South Wales.

W. K. Dods, Esq., Hon. Secretary, Zoological Gardens, Calcutta.

The Count Nils F. Gyldenstolpe, Naturhistoriska Riksmuseum, Frescati, Stockholm, Sweden.

Charles Hedley, Esq., Australian Museum, Sydney, New South Wales.

Dr. Paul Kammerer, Biologische Versuchsanstalt, Vienna.

P. E. Mitchell, Esq., Political Officer, Tanga, Tanganyika Territory.

Heer Anton Frederik Johan Portielje, Inspector, Zoological Gardens, Amsterdam.

C. F. M. Swynnerton, Esq., Game Warden, Tanganyika Territory, Dar-es-Salaam.

Edgar Waite, Esq., South Australian Museum, Adelaide, South Australia.

6. IMPERIAL FELLOWS:—The following were elected as a first list of Imperial Fellows:—

The Rt. Hon. William Ferguson Massey, P.C., Prime Minister of New Zealand, Wellington, New Zealand.

The Rt. Hon. William Morris Hughes, P.C., Prime Minister of Australia, Kew, Melbourne, Victoria, Australia.

General The Rt. Hon. Jan Christiaan Smuts, P.C., Prime Minister of the Union of South Africa, Doornkloof, Irene, near Pretoria, Transvaal.

The Rt. Hon. William Lyon Mackenzie King, C.M.G., LL.D., M.P., Prime Minister of Canada, The Ronborough, Ottawa, Canada.

7. LIST OF FELLOWS.—A revised edition will be published during the Summer of 1923. Any corrections should be sent to the Secretary before April 30th, 1923.

8. LECTURES TO SCHOOL TEACHERS.—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, was continued. Mr. Frank Balfour-Browne, M.A., F.Z.S., F.R.S.E., conducted a complete course in spring, 1922, of four lectures with lantern demonstrations in the Society's Meeting Room, followed by tours in the Gardens to give the Teachers, in groups of 25, a demonstration for each lecture. By agreement with the London County Council, it has been decided to suspend these courses for the present as a large proportion of the London School Teachers have already taken advantage of them.

9. MEDALS.—No Medal was conferred in 1922.

10. SCIENTIFIC GRANTS.—The Council made a donation of £10 to the National Trust towards the preservation of Wicken Fen and of £30 to the Conjoint Board of Scientific Societies.

11. SCIENTIFIC MEETINGS.—The usual twelve meetings for scientific business were held. The Society's Rooms were also lent to the British Ornithologists' Union, to the Avicultural Society, to the Society for the Protection of the Wild Fauna of the Empire, to the Central Veterinary Society and to the Royal Society for the Protection of Birds.

12. SCIENTIFIC PUBLICATIONS.—The *Abstract* was issued as usual. The *Transactions*, suspended during the war, have not yet been resumed. Of the *Proceedings*, Part IV of 1921 was issued on January 27th, 1922; Part I of 1922, on April 11th, 1922; Part II on June 28th, 1922; Part III on September 28th, 1922, and Part IV on February 15th, 1923. The irregularity in publication which could not be avoided during the war, has now almost ceased.

In the following table are given the number of plates and pages of the *Proceedings* for the last ten years:—

		Plates.		Pages.
1913	...	113	...	1104
1914	...	75	...	1077
1915	...	21	...	712
1916	...	22	...	756
1917	...	11	...	338
1918	...	3	...	310
1919	...	23	...	499
1920	...	19	...	656
1921	...	35	...	887
1922	...	57	...	1276

13. ZOOLOGICAL RECORD.—Further progress has been made in dealing with the arrears due to the war. Volume fifty-seven, containing the literature of 1920, was published on August 15th, 1922. The Council record with deep regret that Dr. David Sharp, F.R.S., editor of the annual volumes of the *Zoological Record* since 1892, died on August 27th, 1922, in his eighty-second year. He had greatly improved the volumes in completeness, accuracy and promptness of issue, revising the work of all the sectional Recorders and himself acting as Recorder of Insects.

Mr. W. L. Sclater, M.A., F.Z.S., had already been appointed to succeed Dr. Sharp who had stated his intention of resigning on the completion of Volume 57. Volume 58, containing the literature of 1921, is in the press under Mr. Sclater's editorship.

In the Annual Report for 1921, the Council reviewed the history of the *Zoological Record* and stated that, owing to the increasing cost of preparation and publication, the Society could not undertake the responsibility of production unless a sufficient number of Zoologists and Libraries showed their sense of the value of the *Record* by subscribing for copies. Circulars were sent to Zoological Institutions, Universities, Libraries and Societies in most parts of the world, and also to very many individual

workers. The results were disappointing. A close estimate of the cost of the volume now in preparation amounts to £1,900; only 257 subscribers, old and new, have been registered, so that, allowing for trade sales, the receipts cannot be estimated at more than £800, leaving a deficit of £1,100 to be met by the Society. The Council have agreed to undertake the responsibility for the volume now in preparation, and have also sanctioned the compilation of the volume dealing with the literature of 1922, as well as of the *Insecta* for 1923. But they have decided not to pay for the printing and publication of these, or of subsequent volumes, unless substantial aid comes from other sources, especially from institutions or persons to which Zoological Bibliography is of more direct concern than to this Society.

14. GARDEN GUIDE AND PICTURE POST CARDS.—The twentieth edition of the Garden Guide was issued in 1922, and in the course of the year 63,303 copies were sold. Since 1903, when the Guide became the property of the Society, 970,204 copies have been sold. The twenty-first edition, revised, and with many new photographs, will be published about Easter. Of picture post cards, 241,793 were sold in 1922.

15. EXCHANGE LIST.—A full list of the Institutions, etc., on the Exchange List of the Society's Publications was printed in the Report for 1902. Since that date the following additions have been made:—

- 1904. The Carnegie Museum, Pittsburgh, Pa., U.S.A.
- 1915. The University of Illinois, U.S.A.
- 1916. Ministry of the Belgian Colonies.  
Imperial Society of Naturalists, Petrograd.
- 1919. California Academy of Sciences, San Francisco, U.S.A.
- 1920. Great Britain, The Ministry of Agriculture,  
Department of Fisheries.  
Naturhistorisches Staatsmuseum, Vienna.  
The Straits Branch of the Royal Asiatic Society.

1921. The Philippine Journal of Science, Manila.  
 1922. Musée Zoologique de l'Université et de la  
 Ville, Strasbourg.

16. LIBRARY.—The Visitors' Book was signed by 542 Fellows and persons introduced by them, and 1,413 volumes were borrowed under the usual regulations.

The following is a list of the additions made to the Library during the past year:—

## PRESENTED.

<i>Donor.</i>	<i>Donation.</i>
ALEXANDER, SIR CLAUD, BT.	The Park Cattle Society's Herd Book. Vols. I, II. 1919, 1921.
BOUBIER, MAURICE.	L'oiseau et son milieu, 1922.
BRITISH ASSOCIATION FOR THE ADVANCE- MENT OF SCIENCE.	The British Association for the Advance- ment of Science: A Retrospect, 1831- 1921.
BRITISH MUSEUM, TRUSTEES OF.	Terra Nova Report, Zoology. Vol. II, No. 11, Hirudinea. Vol. IV, No. 4, Rhabdopleura. Vol. VI, No. 2, Foraminifera. Geology, Vol. I, No. 2, Fish Remains. Library Catalogue, Vol. VI. Index Animalium, Section II, Part 1. Monograph of the Lacertidae, Vol. II. Catalogue of the Selous Collection of Big Game. Catalogue of Cretaceous Bryozoa, Vol. IV. Summary Guide to the Exhibition Gal- leries. 2nd edition. Guide to Anthropology. 4th edition. Guide to Mammals. 10th edition. Guide to the Horse Family. 2nd edition. Guide to Whales, Porpoises and Dolphins. 2nd edition. Guide to Reptiles and Batrachians. 3rd edition. Guide to the Fossil Remains of Man. 3rd edition. Guide to the Fossil Reptiles, Amphibians and Fishes. 10th edition. Economic Series. No. 2. The Louse as a Menace to Man. No. 13. Mites Injurious to Domestic Animals.

- CHAMPION, G. C.      *Memoirs on the Coleoptera.* Vol. X.  
By Thos. L. Casey.
- CHILD, B. T.      *Die Krankheiten der Aquarienfische.*  
By W. Roth.
- DIGHTON, ADAIR, F.Z.S.      *The Greyhound and Coursing.* By Adair  
Dighton.  
*The Englishman's Dog in the Tropics.*  
By H. H. King.  
*Photography for Bird-Lovers.* By Bentley  
Beetham.  
*The Minds and Manners of Wild Animals.*  
By W. T. Hornaday.  
*The Study of Animal Life.* Revised  
edition. By J. A. Thomson.
- DOELLO-JURADO, PROF. M.      *Primera Reunión Nacional de la Sociedad  
Argentina de Ciencias Naturales Tucumán.*
- DUNCAN, F. MARTIN,  
F.Z.S.      *Animals of the Sea.* By F. Martin  
Duncan.
- FINN, FRANK, F.Z.S.      *The Boy's Own Book of Pets.* By F. Finn.  
*The Boy's Own Aquarium.* By F. Finn.
- FLOWER, MAJOR S. S.,  
F.Z.S.      *Catalogue of Malayan Fishes.* By Theo-  
dore Cantor. 1850.  
*Catalogue of the Mammalia in the Museum  
of the Hon. East India Company.* By  
Thomas Horsfield. 1851.  
*The Mammals of India.* By T. C.  
Jerdon. 1867.  
*Nachrichten von Island Grönland und der  
Strasse Davis.* By Johann Anderson.  
1746.  
*Beschreibung des Grönländischen Wall-  
fischfangs und Fischerey.* By Cornelius  
Gisbert Zorgdragers. 1750.  
*Recherches pour servir a l'Histoire des  
Mammifères.* 2 Vols. By H. Milne  
Edwards. 1868 à 1874.  
*The Wild Elephant.* By J. Emerson  
Tennant. 1867.  
*The Royal Tiger of Bengal.* By J. Fayrer.  
1875.  
*Monograph of the Asiatic Chiroptera.*  
By G. E. Dobson. 1876.  
*Recherches Anatomiques, Zoologiques et  
Paléontologiques sur la Famille des  
Chevrotains.* By Alphonse Milne  
Edwards. 1864.  
*Reise nach Mossambique. Zoologie I.  
Säugethiere.* By Wilhelm C. H. Peters.  
1852.

- GURNEY., R, F.Z.S. Undersogelser over vor Almindelige Rejes (*Palæmon fabricii*. Rtk.) Biologi og Udviklingshistorie. By Th. Mortensen.
- HALL, ROBERT. Australian Bird Maps. By Robert Hall.
- HEGH, E. Les Termites. By E. Hegh.
- JANET, CHARLES Considérations sur l'Être vivant. Parts I and II. By Charles Janet.
- MITCHELL, DR. P. Minds and Manners of Wild Animals. CHALMERS. By W. T. Hornaday.
- NEW ZEALAND, THE The Naturalisation of Animals and Plants HIGH COMMISSIONER in New Zealand. By the Hon. George FOR. M. Thomson.
- PELLEGRIN, M. JACQUES Les Poissons des Eaux douces de l'Afrique du Nord Française, Maroc, Algérie, Tunisie, Sahara. By M. Jacques Pellegrin.
- PONTING, HERBERT G. The Great White South. By Herbert G. Ponting.
- SONNTAG, DR. C. F. Cunningham's Manual of Practical Anatomy. Revised and Edited by A. Robinson. 6th edition.

## PURCHASED.

- BAKER (E. STUART). Birds. Vol. I, Fauna of British India. 2nd edition. 1922.
- BANNERMAN (DAVID). The Canary Islands. 1922.
- BARNS (T. ALEXANDER). Wonderland of Eastern Congo. 1922.
- BONHOTE (J. LEWIS). Vigour and Heredity. 1915.
- BROOKS (C. E. P.). The Evolution of Climate. 1922.
- DOBELL (CLIFFORD), and O'CONNOR (F. W.). The Intestinal Protozoa of Man. 1921.
- EVERTS (JHR. ED.). Coleoptera Neerlandica. 3 Vols. 1903-1922.
- ENCYCLOPÆDIA BRITANNICA. 3 Vols. 12th edition.
- FLATTELY (F. W.), and WALTON (C. L.). The Biology of the Sea-Shore. 1922.
- HOWELL (G. C. L.). Ocean Research and the Great Fisheries. 1921.
- KOFOID (C. A.), and SWEZY (O.). The Free-living Unarmoured Dinoflagellata. 1921.
- PEARCE (E. K.). Typical Flies. 2nd series. 1921.
- PHISALIX (MARIE) Animaux venimeux et Venins. 2 Vols. 1922.
- WITHERBY (H. F.). British Birds. Index to Vols. I-XII. 1922.

Periodicals and Zoological Works in course of publication, of which parts were added to the Library for the first time in 1922 :—

The Canadian Field Naturalist.

Genetica.

17. CARD CATALOGUE.—The Librarian and his Assistant have made further progress with the Subject Card Index and the Geographical (Zoological) Card Index of the Works in the Library. A Cabinet to contain the Card Index has been purchased, and Sections of the Index, as they are completed, will be placed therein for the use of Fellows.

18. CINEMATOGRAPH RECORDS.—Mr. Martin Duncan has made further film studies of some of the rarer animals in the Gardens. Series of these have been shewn at Scientific Meetings, and the negatives are carefully preserved. An arrangement has been made with British Instructional Films, Ltd., to take and market cinematographic studies of the animals, from which it is hoped that a profit will accrue to the Society.

19. PROSECTORIUM.—Dr. Sonntag has continued to act as Anatomist, with general supervision of the Prosectorium, and Dr. Lucas as Pathologist. Mr. Ortlepp, who has done valuable work for the Society as Honorary Parasitologist, was compelled to resign from pressure of other duties. By the kindness of Professor R. T. Leiper, Dr. Khalil, a Research Student at the Royal School of Tropical Medicine, carried on the collection and examination of parasites until a more permanent arrangement could be made. Later in the year, on the advice of the Prosectorial Committee, the Council approved of a scheme by which Prof. R. T. Leiper, working through a panel of experts, should be responsible for the collection and identification of parasites at the Gardens. As before, type specimens of new species are to be presented to the British Museum (Natural History) in the name of the Society, and other material is to be dealt with as the Society directs.

Reports from Dr. Sonntag, Dr. Lucas and Professor Leiper follow:—

Dr. C. F. Sonntag, the Society's Anatomist, reports: "During the year five papers, based on the examination of parts of 3 Primates, 25 Cetacea, 2 Sirenia, 126 Ungulata, 3 Edentata and 7 Marsupialia have been published in the Society's *Scientific Proceedings*. These included studies of the nervous system and tongue, and the first of a series of monographs on the Primates.

The following workers have carried out research work on their own account, or have helped me with the dissection of large animals:—Dr. Doreen Stranger, Miss Knobel, Miss Kahan, and Messrs. Negus, Flintau, Awrounin, Henderson, Meneces, McCormick and Vaithianathan.

Anatomical material has been sent for research or teaching purposes to:—

*University College*.—Professor J. P. Hill, Professor G. Elliot Smith, Drs. Dart, Hunter, Shellshear and Harris.

*The Royal College of Surgeons*.—Sir Charles Ballance and Mr. K. Walker.

*Guy's Hospital*.—Professor Johnstone.

*University College Hospital*.—Sir Thos. Lewis and Mr. Barrington.

*Cambridge University*.—Professor Wilson and Mr. Appleton.

*King's College for Women*.—Dr. Esdaile.

*Shropshire Orthopædic Hospital*.—Dr. Smith.

Specimens have also been sent to the British Museum, Tring Museum and the National Museum of Wales."

Dr. Lucas, the Society's Pathologist, reports: "My own work on mycotic disease has continued. I am now directing my attention towards identifying the toxic principle contained in *Aspergillus fumigatus*. Some further organisms isolated from animals dying in the gardens have been identified.

The collection of slides showing examples of pathological histology has been increased and as far as possible normal histological specimens have been prepared for the sake of comparison. These last have been made from animals dying from some accidental cause.

The following institutions have received pathological material:—The Lister Institute, The Royal Army Medical Corps College, Millbank, The National Collection of Type Cultures.

The following individuals have received material:—Dr. Walshe, University College Hospital; Dr. M'Nee, University College Hospital; Dr. Manson-Bahr, The London School of Tropical Medicine; Dr. Robertson, The London School of Tropical Medicine; Sir Frank Colyer.

Professor R. T. Leiper reports:—"The collection and identification of parasites has been carried out under my supervision. In accordance with the scheme accepted by the Prosectorial Committee, I have arranged for daily visits to the Prosectorium by various members of my staff at the London School of Tropical Medicine. Monthly reports upon the parasites found have been submitted to the Committee. The following workers have participated in the scheme during 1922: Dr. J. Goodey, Dr. G. M. Vevers, Dr. M. Khalil, Dr. A. J. Hesse, Mr. W. M. T. Cameron, M.R.C.V.S., Mr. R. J. Ortlepp, Mr. J. C. Ross, B.Sc., Mr. G. Griffiths, M.R.C.V.S. and the late Mrs. R. Markbreiter, B.Sc.

"A number of papers have appeared in the Scientific Proceedings of the Society based on the material collected and the types of new species have been presented in the name of the Society to the British Museum (Natural History)."

20. SANATORIUM.—During the War, the Sanatorium could not be fully used. It has now been refitted both as a quarantine station and for the treatment of sick animals. It is to be in the immediate charge of Drs. Sonntag and Lucas in collaboration with the Curators and Professor Wooldridge, F.Z.S., Honorary Consulting Veterinary Surgeon to the Society.

21. VISITORS TO THE GARDENS.—The total number of visitors to the gardens in 1922 was 1,427,849, the third largest in the history of the Society. The following Tables give comparative figures:—

*Visitors to the Gardens.*

1913 . . .	1,157,974	1918 . . .	855,477
1914 . . .	1,055,208	1919 . . .	1,515,042
1915 . . .	1,058,728	1920 . . .	1,590,642
1916 . . .	1,084,249	1921 . . .	1,386,745
1917 . . .	898,758	1922 . . .	1,427,849

*Visitors on Bank Holidays.*

	1921.	1922.
Easter Monday . . . . .	48,480	59,532
Whit Monday . . . . .	32,103	34,186
First Monday in August . . . . .	30,517	47,578
Boxing Day . . . . .	3,620	5,585

*Visitors on Sundays and Week-days.*

	1921.	1922.
Sundays . . . . .	136,475	134,227
Week-days . . . . .	1,250,270	1,293,622

22. ADMISSION TO THE GARDENS.—The Gardens are open daily throughout the year (except Christmas Day, when they are closed) from 9 a.m. until sunset, or 8 p.m., when sunset is later. The arrangements for admission are as follows:—

*Fellows.*—Every Fellow, Honorary Member, Foreign Member, Imperial Fellow or Corresponding Member may enter with two visitors by signing his or her name in the Gate-Book, but is not entitled to admit more than two visitors in this way on the same day. The husband or wife of a Fellow may use this privilege in the absence of the Fellow, but both husband and wife may not admit visitors on the same day.

*Other Visitors.*—On SUNDAYS only when personally accompanied and signed for as above, or on presentation

of tickets. Written messages or the visiting cards of Fellows cannot be accepted, and admission by payment is not allowed. On WEEK-DAYS, when personally accompanied and signed for as above; on presentation of tickets; or by payment. The prices for admission by payment are as follows:—

Mondays throughout the year, except Bank Holidays, 6d. each person.

Bank Holidays, 1s. each adult; 6d. each child under 12 years.

Other Days, except Sundays, 1s. each adult; 6d. each child under 12 years.

Infants in arms are admitted free.

The following reduced prices for EXCURSION TICKETS for Parties of not less than 25 for any fixed date (except Sunday) may now be obtained upon application at the Society's Office, Regent's Park, N.W.8, and if the date chosen for the visit to the Gardens should, through unforeseen circumstances, be found unsuitable, the set of Tickets, upon being returned to the Society's office, will be made available for another day during the year of issue.

<i>Adults.</i>	<i>Children under 14 Years.</i>
25 to 100 at 11d. each.	25 to 100 at 5d. each.
101 to 200 at 10d. each.	101 and upwards at 4d. each.
201 to 300 at 9d. each.	
301 and upwards at 8d. each.	

CHEAP ORDERS for the admission from 9 a.m. to 1 p.m. of Children from Council or Grant-aided Schools on Tuesday, Wednesday, Thursday or Friday (except during Easter and Whitsun weeks) may now be obtained:— (1) For a party of 25 or less Children, with one or two Teachers, three shillings (3s.); (2) for a party of 26 to 50 Children, with two teachers, five shillings (5s.); and any number additional to 50 Children at the rate of one penny (1d.) each child, and fivepence (5d.) each Teacher. The Children, with their Teachers, must be out of the Gardens by 1 p.m.

23. RETIREMENT OF THE SUPERINTENDENT.—Mr. R. I. Pocock, F.R.S., Superintendent and Curator of Mammals since 1904, stated his wish to retire on reaching his sixtieth year in March, 1923. The Council accepted the resignation with regret and granted him a pension at the rate of £600 a year. Mr. Pocock came from the British Museum (Natural History) with a high reputation as a scientific zoologist. He quickly gained and retained the personal regard and esteem of members of successive Councils, of his colleagues and subordinates on the Society's staff. He acquired a very wide knowledge of the species and varieties of mammals, and by his researches, chiefly on the external characters and classification of mammals, he has added to knowledge and to the scientific reputation of the Society.

24. GARDENS' STAFF.—In view of Mr. Pocock's retirement, the Council asked the Garden Committee to report on the future organisation of the Gardens' staff. The report having been considered, the Council in January of 1923 appointed as Superintendent Dr. G. M. Vevers, M.R.C.S. (Eng.), L.R.C.P. (Lond.), F.Z.S., then Beit Research Fellow at the London School of Tropical Medicine. Dr. Vevers is already well acquainted with the Gardens and has acted as Honorary Parasitologist to the Society for nearly two years. He will be chief of the Gardens' staff and has undertaken to devote his scientific work in future to problems relating to animals which can be studied better in a collection of living animals than in a museum or laboratory.

Mr. D. Seth-Smith, formerly Curator of Birds and Inspector of Works, has been promoted to be Curator of Mammals and Birds, Mr. E. G. Boulenger is to be Curator of the Aquarium and of the Reptiles, and Miss Cheesman is continued in her appointment as Curator of Insects.

The duties of the various classes of keepers and other employees are being considered by the Garden Committee in consultation with the new Superintendent and the Curators.

25. WORKS.—Considerable alteration has been made to the entrance gates to allow for more rapidly dealing with

large crowds on busy days. Two additional exit turnstiles have been provided, one near the Main Entrance and one near the North Entrance.

Unightly banks have been cleared away near the South and North Entrances.

The pond behind the Fellows' Pavilion has been repaired and an island formed in it for Penguins.

The large new Tea Pavilion was finished and opened for use early in the season. Old sheds and shrubberies in front of this were cleared away. The Refreshment Rooms have been cleaned and painted where necessary, and all the outside Bars repaired and painted.

The Summer Aviary was thoroughly repaired and painted, the shelters moved into less conspicuous places, and turfed rides formed.

The heating apparatus serving the Reptile House, Tortoise House and Sanatorium, which had given trouble for some years past, has been re-designed and re-piped to provide a better and more economical circulation. That of the Lion House has also been renewed on an improved plan.

The old platform and steps for Elephant riding have been replaced with new ones of wrought iron, and a ticket office formed in the end of the Lion House.

An outdoor enclosure for Raccoons, octagonal in plan, and constructed of light reinforced concrete, has been formed near the Lion House.

The old tile floor of the Elephant House has been taken up and a new floor of granolithic laid.

A new Otter Pond, planned without the use of bars, has been formed near the northern approach to the Western Tunnel.

The Antelope Paddock was fitted with a series of cages and paddocks for the exhibition of H.R.H. the Prince of Wales's Indian and Malayan collections.

A store-room for books, fitted with steel shelves, has been formed in the basement of the Society's Offices.

The service lavatory at the back of the new Tea Pavilion has been entirely renovated.

The Wolves' Dens have been thoroughly repaired and painted. The outer cages of the Apes' House have been re-wired and painted.

The fence of the Cattle Sheds has been cleaned and painted and the drains in the paddocks made good.

The wooden palings of the Boundary Fence have been secured by stout wire and new gates made and fixed opposite the Parrot House.

One den in the Lion House has been lined with green glazed tiles.

One of the paddocks in front of the Mappin Terraces has been surrounded with a strong fence, the floor laid with concrete and a shelter formed, to accommodate a pair of musk oxen.

The floor of the Butcher's Shop has been relaid with asphalt and a new 25 cwt. windlass installed.

The southern approach to the old Tunnel has been widened and the Tunnel itself cleaned and painted.

An old tank at the end of the Diving Birds' House has been removed and an aviary formed for wading birds.

The Western Aviary has been cleaned, painted and distempered.

The footpath in front of the Birds of Prey Aviary has been widened to 20 feet.

26. NEW WORKS FOR 1923.—The service accommodation at the Fellows' Pavilion, at present insufficient for quick service on crowded days, is being greatly enlarged, and additional seating accommodation for Fellows is being provided. An area is being cleared between the Reptile House and the Wolves' Den to provide accommodation for a cheap tea and light refreshment service. In many parts of the Gardens, walks are being widened, unsightly shrubberies removed, and the surface is being improved by "tar-mac" and dressings of tar.

A bore-hole is being sunk down to the deeper layer of the chalk to provide an adequate supply of pure water. Apart from the Aquarium, no new works on a large scale

are contemplated, but a special effort is to be made to put all the existing buildings, enclosures and fences into a thorough state of repair.

27. AQUARIUM.—In the Report for 1921 (par. 24) the Council stated that they had decided to complete the Mappin Terraces by the construction of a first-rate aquarium for fresh-water and marine animals, that they were engaged in working out the details and hoped to be able to begin construction in the course of 1922. In response to a suggestion made by a Fellow at the Annual Meeting, it was agreed that the plans should be explained at a General Monthly Meeting, when more time would be available. This course was accordingly followed. Although by the constitution of the Society, the formal consent of the Fellows was unnecessary, it was thought that a definite motion would give a better opportunity for discussion, and at the General Monthly Meeting on May 17th, 1922, the Secretary gave notice that at the Meeting on June 21st, 1922, he would move on behalf of the Council "That this Meeting of Fellows approves the scheme to establish an Aquarium at the Gardens as described in general outline by the Secretary on behalf of the Council to-day." Notice of the motion was sent to all Fellows residing in the London postal area, and at the Meeting on June 21st the motion was passed.

Under the direction of a special committee, the plans were worked out in detail, Mr. J. J. Joass, the Society's architect, advising on general construction and Sir Alexander Gibb and Partners advising on the engineering side. Valuable advice was received from Dr. E. J. Allen, F.R.S., F.Z.S., Director of the Plymouth Laboratory of the British Marine Biological Association, Heer A. F. J. Portielje, C.M.Z.S., Inspector of the Amsterdam Aquarium, Dr. Charles H. Townsend, Director of the Aquarium of the New York Zoological Society, and many other experts. Mr. E. G. Boulenger was sent to Antwerp, Amsterdam and Berlin, to obtain information on special points. It was found possible to accept tenders before the end of the year, and the work of construction is now so far advanced that there is a good prospect of opening the Aquarium in the autumn, 1923.

The Aquarium, placed under the Mappin Terraces, will contain a fresh-water hall, a sea-water hall and a tropical room as well as the large service accommodation required. The tanks on the north side of the curve will have both daylight and electric light, those on the inner side only electric light. The filters and storage tanks will be underground and high level reservoirs will be placed under the peaks of the mountains of the Terraces. The circulating and aerating machinery will be driven by electricity, and the heating will be by steam.

The total cost of the Aquarium, including equipment and initial stocking, will be almost exactly £50,000. The Council decided to meet this by disposing of the Society's property at 3, Hanover Square, which realised £23,000 net, and by borrowing the remainder from the Bankers. The Council wish to record their gratitude to the President, His Grace the Duke of Bedford, K.G., F.R.S., and to the Fishmongers' Company who generously agreed to guarantee the loan. It is proposed to repay the loan by a sinking fund of £5,000 per annum, to include interest and capital. The arrangements for admission have not yet been decided. The initial stock of salt water is to be obtained from the North Sea. Experience at other Aquaria shows that it will not have to be renewed frequently.

28. H.R.H. THE PRINCE OF WALES'S NEPAL AND MALAYAN COLLECTIONS.—The Prince of Wales, during his visit to the East in 1921-22, accepted collections of animals from Nepal and Indo-Malaya. His offer to present these to the Society was very gratefully accepted. In accordance with the precedent of H.M. The King's Indian and Malay Collections, it was arranged to exhibit these separately during the summer of 1922. The large Antelope Paddock and the outer enclosures of the Antelope House were specially prepared for the collections. The Nepal animals arrived in April in charge of Mr. Doctor, C.M.Z.S., Curator of the Victoria Gardens, Bombay, and the Malay animals in May, in charge of Dixon, head-keeper of small mammals, who had been sent out by the Society to return with them. The Society is specially indebted to the Bombay Natural History Society and to Mr. B. C. Ellison, C.M.Z.S., and Mr. S. H. Prater,

C.M.Z.S., for the great assistance given with the reception of the Nepal collection at Bombay and its care until it could be shipped home. They are equally indebted to Major J. C. Moulton, F.Z.S., of the Raffles Museum, Singapore, for great aid given in connection with Malay animals.

Among the more valuable of the additions thus made to the collection were a young orang-utan, a white-handed gibbon, four black leopards, a young elephant and rhinoceros, five Argus pheasants, a large python and four cobras. A very large number of visitors inspected the collections.

29. GARDENERS' DEPARTMENT.—Under the capable superintendence of Mr. W. Wall, appointed head gardener in 1921 on the retirement of Mr. John Young, the floral display was well maintained and a good deal of planting and improvement to shrubberies was carried out.

30. BAND.—On the advice of a special committee, the Council have decided to try to improve the quality of the performances of music given during the season. In 1923 the Band of the 65th (8th London) Brigade, R.F.A., will play in the Gardens on Saturday and Sunday afternoons from the last Saturday and Sunday in May to the last Saturday and Sunday in August.

31. REFRESHMENT DEPARTMENT.—The Accounts have been audited, as usual, by Messrs. Edward Moore & Sons. The gross profits for 52 weeks amounted, after feeding the Staff, to £29,723 10s. 3d. The working expenses for the same period amounted to £13,909 16s. 10d., leaving a trading profit of £15,813 13s. 5d. After making the usual allowances for rent, depreciation, and licence duties, etc., and allotting the receipts from the lavatories on the same lines as last year, and deducting the Manager's salary and percentage, there was a net profit to the Society amounting to £9,133 18s. 10d. Of that amount, the sum of £333 18s. 10d. was allotted to repaying the Works Department for work carried out at the Refreshment Rooms. The balance of £8,800 has been carried forward, but out of this £2,000 must be reserved towards the payment of Income Tax, Schedule D.

At the request of the Council, the Committee of Auditors appointed in January, 1922, held a special meeting to audit the accounts of the Refreshment Department. The results of their investigations have been incorporated in the accounts of the Society for the current year.

The New Tea Pavilion, opened to the public last August, at once proved its usefulness and caused a great increase in the takings of the department in that quarter of the year. The service and seating accommodation at the Fellows Pavilion is being enlarged.

32. COLOURED LABELS.—The coloured labels, painted in fusible enamels on tiles, appear to stand the weather successfully and their use is being extended as quickly as possible.

33. MENAGERIE.—The collection of animals in nearly every section is now as fine as at any time in the history of the Society, but constant efforts are being made to improve it.

The following tables show the total changes in the Menagerie in 1920, 1921 and 1922:—

*Number of Animals in the Gardens on December 31st,  
1920-1922.*

	1920.	1921.	1922.
Mammals ... ..	563	696	758
Birds ... ..	1,618	1,878	1,865
Reptiles, etc. ... ..	549	759	664
Totals ... ..	2,730	3,333	3,287

*Additions to the Collection, 1920-1922.*

	Presentation.	Purchase.	Deposit.	Exchange.	Birth.	TOTAL.
1920 ...	803	885	547	76	165	2,476
1921 ...	891	609	730	64	140	2,434
1922 ...	1,198	559	462	42	187	2,448

## ANIMALS BRED DURING 1922.

1922.	Mammals.
Oct. 27.	2 Lions ( <i>Felis leo</i> ), one found dead; one died next day.
Oct. 30.	4 Lions ( <i>Felis leo</i> ), all died next day.
Dec. 31.	1 Polar Bear ( <i>Thalarctos maritimus</i> ), died Jan. 6, 1923.
May 27.	1 Californian Sea Lion ( <i>Otaria californiana</i> ), reared.
Aug. 3.	1 Hairy-rumped Agouti ( <i>Dasyprocta prymnolopha</i> ), reared.
Nov. 26.	1 Hairy-rumped Agouti ( <i>Dasyprocta prymnolopha</i> ), died next day.
Aug. 8.	1 Hybrid Hairy-rumped and Golden Agouti ( <i>Dasyprocta prymnolopha</i> × <i>D. agouti</i> ), reared.
Dec. 6.	2 Hybrid Hairy-rumped and Golden Agouti ( <i>Dasyprocta prymnolopha</i> × <i>D. agouti</i> ), reared.
June 19.	3 Cape Hyrax ( <i>Procavia capensis</i> ), reared.
July 9.	1 Kiang ♀ ( <i>Equus kiang</i> ), reared.
Feb. 12.	1 Nylghai ( <i>Boselaphus tragocamelus</i> ), reared.
Feb. 22.	2 Nylghais ( <i>Boselaphus tragocamelus</i> ), one died July 23, 1922; one reared.
April 21.	2 Bennett's Gazelles ( <i>Gazella bennetti</i> ), born dead.
July 1.	1 Thar ♂ ( <i>Hemitragus jemlaicus</i> ), reared.
July 22.	1 Thar ( <i>Hemitragus jemlaicus</i> ), reared.
May 9.	1 Grecian Ibex ( <i>Capra aegagrus</i> ), died June 24, 1922.
May 9.	2 Grecian Ibexes ( <i>Capra aegagrus</i> ), born dead.
May 14.	2 Grecian Ibexes ( <i>Capra aegagrus</i> ), born dead.
May 29.	3 Hybrid Caucasian and Himalayan Ibexes ( <i>Capra cylindricornis</i> × <i>C. sibirica</i> ), reared.
June 9.	1 Hybrid Caucasian and Himalayan Ibex ( <i>Capra cylindricornis</i> × <i>C. sibirica</i> ), died July 16, 1922.
June 13.	1 Hybrid Caucasian and Himalayan Ibex ( <i>Capra cylindricornis</i> × <i>C. sibirica</i> ), reared.
Mar. 8.	1 Barbary Sheep ( <i>Ammotragus lervia</i> ), reared.
Mar. 19.	2 Barbary Sheep ( <i>Ammotragus lervia</i> ), reared.

- April 14. 2 Barbary Sheep (*Ammotragus lervia*), reared.  
 Sept. 19. 1 Barbary Sheep (*Ammotragus lervia*), reared.  
 Mar. 17. 1 Hybrid Soa Sheep and Sardinian Mouflon  
 (*Ovis aries* × *O. musimon*), reared.  
 April 28. 1 Hybrid Soa Sheep and Sardinian Mouflon  
 (*Ovis aries* × *O. musimon*), reared.  
 July 4. 1 Soa Sheep (*Ovis aries*), reared.  
 May 5. 2 Spanish Sheep (*Ovis aries*), reared.  
 June 28. 1 Japanese Deer (*Cervus sika*), reared.  
 April 20. 1 Thamin Deer (*Cervus eldi*), reared.  
 June 18. 1 Sambur Deer (*Rusa unicolor*), reared.  
 April 10. 1 Hog Deer (*Axis porcinus*), reared.  
 Oct. 14. 1 Indian Muntjac (*Muntiacus muntjak vaginalis*), reared.  
 June 10. 2 Virginian Deer (*Odocoileus virginianus*),  
 reared.  
 Nov. 7. 1 Javan Mouse Deer (*Tragulus javanicus*), died  
 Dec. 25th, 1922.  
 June 20. 1 Napu Mouse Deer (*Tragulus napu*), died  
 July 7th, 1922.  
 June 30. 1 Red Kangaroo (*Macropus rufus*), died July  
 7th, 1922.  
 June 7. 1 Bennett's Wallaby (*Macropus bennetti*),  
 reared.

1922.

*Birds.*

- July 16. 2 White-cheeked Bulbuls (*Otocompsa leucogenys*), one reared.  
 July 2. 2 Zebra Finches (*Taeniopygia castanotis*), reared.  
 Oct. 1. 2 Black-winged Grackles (*Graculipica melanoptera*), one reared.  
 May 19. 2 Leadbeater's Cockatoos (*Cacatua leadbeateri*),  
 reared.  
 Feb. to } 44 Budgerigars (*Melopsittacus undulatus*), all  
 Nov. } reared.  
 June 27. 2 Sacred Ibises (*Ibis aethiopicus*), one died  
 Oct. 11th, 1922; one reared.  
 Oct. 2. 1 Sacred Ibis (*Ibis aethiopicus*), died Oct. 4th,  
 1922.  
 July 21. 9 Egyptian Geese (*Alopochen aegyptiacus*), all  
 reared.

- June 3. 9 Carolina Ducks (*Lampronessa sponsa*), all reared.  
 July 10. 3 Carolina Ducks (*Lampronessa sponsa*), all reared.  
 June 3. 1 Chilian Teal (*Nettion flavirostre*), reared.  
 Sept. 17. 6 Gambel's Quails (*Lophortyx gambeli*), four reared.  
 Aug. 31. 3 Common Pheasants (*Phasianus colchicus*), reared.  
 July 19. 15 Gold Pheasants (*Chrysolophus pictus*), reared.  
 July 19. 9 Amherst's Pheasants (*Chrysolophus amherstiae*), reared.  
 July 19. 2 Hybrid Siamese and Silver Pheasants (*Lophura diardi* × *Gennæus nycthemerus*), reared.  
 July 19. 2 Manchurian Crossoptilons (*Crossoptilon manchuricum*), one reared.  
 Aug. 31. 4 Hybrid Burmese and Black-winged Peafowl (*Pavo muticus* × *P. nigripennis*), all reared.  
 July 2. 2 Talpacoti Ground-Doves (*Chamæpelia talpacoti*), reared.  
 July 2. 3 Dwarf Turtle Doves (*Onopelia humilis*), reared.  
 Sept. 17. 2 Crested Pigeons (*Ocyphaps lophotes*), reared.

#### Reptiles.

- July 15. 1 Grooved Tortoise (*Testudo calcarata*), reared.  
 Aug. 13. 20 Brown Water-Snakes (*Tropidonotus taxispilotus*), 14 reared.

#### List of the Species new to the Collection exhibited during 1922.

(The figures placed before each animal indicate its approximate position in the List of Animals.)

#### I.—MAMMALS.

15 *b.* *Presbytes siamensis* Müller and Schlegel. Siamese Langur.

*Hab.* Trengganu, Malay Peninsula.

*a-c.* Presented by H.R.H. The Prince of Wales, K.G., F.Z.S., May 22nd, 1922.

- 246 *b.* *Vulpes ferrilatus*, Hodgson. Tibetan Fox.  
*Hab.* Nepal.  
*a.* Presented by H.R.H. The Prince of Wales, K.G.,  
 April 7th, 1922.
- 435 *b.* *Thomomys bulbivorus*, Richardson. Pocket Gopher.  
*Hab.* Berkeley near San Francisco.  
*a-b.* Presented by The Zoological Gardens, Rotterdam,  
 Aug. 14th, 1922.
- 562 *c.* *Cephalophus spadix*, True. Abbott's Duiker.  
*Hab.* Usambara, Tanganyika Territory.  
*a-b.* ♂. ♀. Presented by H. E. Sir Horace A. Byatt,  
 K.C.M.G., Hon. Member Z.S., April 1st, 1922.
- 672 *a.* *Tragulus napu*, F. Cuv. Napu Mouse-Deer.  
*Hab.* Malay Peninsula.  
 Presented by H.R.H. The Prince of Wales, K.G.,  
 May 22nd, 1922.

## II.—BIRDS.

- 159 *a.* *Saltator atricollis*, Vieill. Black-throated Saltator.  
*Hab.* Bahia, Brazil.  
*a.* Purchased, Oct. 26th, 1922.
- 199 *a.* *Uroloncha leucogastra*, Blyth. White-bellied Finch.  
*Hab.* Trengganu, Malay Peninsula.  
*a.* Presented by H.R.H. The Prince of Wales, K.G.,  
 May 22nd, 1922.
- 225 *a.* *Buarremon brunncinucha* Lafr. Chestnut-capped  
 Buarremon.  
*Hab.* S. Mexico.  
*a.* Purchased, July 26th, 1922.
- 359 *a.* *Fringillaria tahapisi* Smith. Rock Bunting.  
*Hab.* S. Africa.  
*a.* Presented by the Hon. Mrs. Charles Winn, F.Z.S.,  
 Sept. 26th, 1922.
- 370 *a.* *Cassicus uropygialis* Lafr. Colombian Red-rumped  
 Hangnest.  
*Hab.* Colombia.  
*a-b.* Presented by W. K. Pomeroy, Esq., F.Z.S.,  
 May 6th, 1922.
- 517 *h.* *Thalurania furcata* Gmelin. Cayenne Wood Hum-  
 ming-bird.  
*Hab.* French Guiana.  
*a.* Presented by Mons. Jean Delacour, F.Z.S., June  
 14th, 1922.

- 552 a. *Ortholophus leucolophus* Sharpe. White-crested Hornbill.  
*Hab.* W. Africa.  
 a. Presented by Major Harold W. Sidley, June 12th, 1922.
687. *Brotogerys jugularis apurensis* Delacour. Apure Tovi Parrakeet.  
*Hab.* Apure, Venezuela.  
 a. Presented by Mons. Jean Delacour, F.Z.S., June 15th, 1922.
- 852 c. *Scops bakkamæna lettia* Hodgs. Nepal Scops Owl.  
*Hab.* Darjeeling.  
 a. Presented by H. Stevens, Esq., Mar. 11th, 1922.
- 971 b. *Cerchneis tinnunculus saturatus* Blyth. Indian Kestrel.  
*Hab.* Darjeeling.  
 a. Presented by H. Stevens, Esq., Mar. 11th, 1922.
- 1051 c. *Mesophoyx intermedia* Wagler. Wagler's Egret.  
*Hab.* Malacca.  
 a-e. Presented by H.R.H. The Prince of Wales, K.G., May 22nd, 1922.
- 1054 a. *Gorsachius melanolophus* Raffl. Black-crested Bittern.  
*Hab.* Kedah, Malay Peninsula,  
 a. Presented by H.R.H. The Prince of Wales, K.G., May 22nd, 1922.
- 1216 e. *Ptilopus fasciatus* Peale. Rose-crowned Fruit-Pigeon.  
*Hab.* Samoa Islands.  
 a. Deposited, Jan. 1st, 1922.
- 1247 b. *Columba grisea* Bp. Grey Pigeon.  
*Hab.* Borneo.  
 a-b. Presented by H.R.H. The Prince of Wales, K.G., May 22nd, 1922.
- 1360 a. *Synæcus plumbeus* Salvad. Plumbeous Quail.  
*Hab.* S.E. New Guinea.  
 a-k. Deposited, Jan. 21st, 1922.
- 1541 a. *Antigone sharpei* Blanf. Sharpe's Crane.  
*Hab.* Kedah, Malay Peninsula.  
 a. Presented by H.R.H. The Prince of Wales, K.G., May 22nd, 1922.
- 1553 b. *Cursorius gallicus* Gm. Cream-coloured Courser.  
*Hab.* Egypt.  
 a-g. Purchased, Oct. 14th, 1922.

## III.—REPTILES.

- 234 a. *Chalcides armitagei* E. G. Blgr. Armitage's Skink.  
*Hab.* Gambia.  
 a. Presented by H. E. Capt. C. H. Armitage, C.M.G.,  
 D.S.O., F.Z.S., Aug. 15th, 1922.
- 244 c. *Chamæleon gracilis* Hallow. West African  
 Chameleon.  
*Hab.* Gambia.  
 a. Presented by H. E. Capt. C. H. Armitage, C.M.G.,  
 D.S.O., F.Z.S., July 18th, 1922.
- 321 b. *Chlorophis irregularis* Leach. Green Tree-Snake.  
*Hab.* Gambia.  
 a-b. Presented by H. E. Capt. C. H. Armitage,  
 C.M.G., D.S.O., F.Z.S., Aug. 15th, 1922.
- 343 a. *Prosymna meleagris* Reinh. Reinhardts' Snake.  
*Hab.* Mongalla, Sudan.  
 a. Presented by The Rev. A. Shaw, C.M.S., Sept.  
 2nd, 1922.
- 378 b. *Dendraspis angusticeps* Smith. Mamba.  
*Hab.* E. Africa.  
 a. Purchased, Aug. 11th, 1922.

## IV.—BATRACHIANS.

- 21 a. *Ceratophrys cultripes* Reinh. Shovel-footed Cera-  
 tophrys.  
*Hab.* Morro Velho, Brazil.  
 a. Presented by George Chalmers, Esq., C.M.Z.S.,  
 May 30th, 1922.
- 49 b. *Rhacophorus buergeri* Schleg. Buerger's Tree-Frog.  
*Hab.* Washikaguchi, Japan.  
 a-m. Presented by Tomisaburo Nagai, Esq., Aug.  
 12th, 1922.

## V.—FISH.

- 66 d. *Barbus semifasciolatus* Günther. Striped Barbel.  
*Hab.* S. E. India.  
 a-b. Presented by J. R. Shattock, Esq., Oct. 8th,  
 1922.
- 66 b. *Barbus phutunio* Hamilton. Dwarf Barbel.  
*Hab.* E. Indies.  
 a-b. Presented by J. R. Shattock, Esq., Oct. 8th,  
 1922.

- 66 c. *Barbus conchoni* Hamilton. Red and Gold Barbel.  
*Hab.* E. Indies.  
*a-d.* Presented by J. R. Shattock, Esq., Oct. 8th, 1922.
- Pterophyllum scalare* Cuv. & Val. Angel Fish.  
*Hab.* Brazil.  
*a-b.* Purchased, Jan. 30th, 1922.
- Nurica danrica malayensis* Bleeker. Malay Fish.  
*Hab.* Malay States.  
*a-b.* Presented by J. R. Shattock, Esq., Oct. 8th, 1922.
- Nurica danrica malabarica* Bleeker. Malabar Fish.  
*Hab.* Malabar Coast.  
*a-b.* Presented by J. R. Shattock, Esq., Oct. 8th, 1922.
- Platypocilus maculatus nigra* Günther. Black Spotted Fish.  
*Hab.* Mexico.  
*a-b.* Presented by J. R. Shattock, Esq., Oct. 8th, 1922.
- Girardinus reticulatus* Eig. Spotted Fish.  
*Hab.* C. America.  
*a-b.* Presented by J. R. Shattock, Esq., Oct. 8th, 1922.
- Badis badis* Hamilton. Blue-finned Fish.  
*Hab.* India.  
*a-b.* Received in Exchange, Sept. 29th, 1922.
- Chirodon arnoldi* Blgr. Arnold's Fish.  
*Hab.* Central America.  
*a-b.* Received in exchange, Sept. 29th, 1922.
- Neotroplus carpintis* Jordan & Snyder. Spotted Cichlid.  
*Hab.* Mexico.  
*a-b.* Presented by J. R. Shattock, Esq., July 27th, 1922.
- Acara caeruleo-punctata* Steindch. Blue Cichlid.  
*Hab.* S. America.  
*a-b.* Presented by J. R. Shattock, Esq., Oct. 8th, 1922.
- Etroplus maculatus* Bloch. Blotched Cichlid.  
*Hab.* Mexico.  
*a-b.* Presented by J. R. Shattock, Esq., Oct. 8th, 1922.

*Geophagus brasiliensis* Heckel. Brazilian Cichlid.

*Hab.* Brazil.

*a-b.* Presented by J. R. Shattock, Esq., Oct. 8th, 1922.

*Haplochilus latipes* (golden var.) Schlegel. Golden Cyprinodon.

*Hab.* Japan.

*a-b.* Presented by J. R. Shattock, Esq., Oct. 8th, 1922.

*Limia nigrofasciata* Regan. Black-banded Cyprinodon.

*Hab.* Haiti.

*a-b.* Presented by J. R. Shattock, Esq., July 27th, 1922.

*Carapus fasciatus* Pallas. Perambulating Fish.

*Hab.* Brazil.

*a.* Purchased, June 15th, 1922.

#### DONORS.

H.R.H. THE PRINCE OF WALES, K.G., F.Z.S. 1 Orang-Utan, 1 White-handed Gibbon, 1 Dusky Langur, 3 Siamese Langurs, 5 Common Macaques, 4 Pig-tailed Macaques, 4 Slow Loris, 3 Tigers, 4 Black Leopards, 2 Clouded Leopards, 4 Leopard Cats, 2 Tibetan Mastiffs, 1 Himalayan Fox, 1 Tibetan Fox, 1 Sumatran Civet, 2 Binturongs, 1 Himalayan Bear, 1 Sun Bear, 1 Bicoloured Squirrel, 1 Prevost's Squirrel, 2 Hoary-headed Squirrels, 5 Long-tailed Porcupines, 2 Brush-tailed Porcupines, 1 Indian Elephant, 1 Indian Rhinoceros, 4 Sambur Deer, 4 Javan Mouse-Deer, 4 Napu Mouse-Deer, 3 Domestic Sheep, 1 Kashmir Goat, 2 Nonpareil Finches, 2 White-headed Mannikins, 2 Java Sparrows, 2 Sharp-tailed Finches, 1 White-bellied Finch, 1 White-billed Hornbill, 1 Blue-crowned Hanging-Parrakeet, 1 Pagoda Owl, 1 Malayan Hawk-Eagle, 1 Goshawk, 2 White-necked Storks, 5 Wagler's Egrets, 1 Black-crested Bittern, 3 Javan Adjutants, 2 Indian Adjutants, 15 Green-winged Doves, 23 Spotted Turtle-Doves, 1 Barred Dove, 2 Grey Pigeons, 1 Southern Fruit-Pigeon, 8 Nutmeg Fruit-Pigeons, 1 Jambu Fruit-Pigeon, 4 Blue-tailed Fruit-Pigeons,

5 Painted Quails, 1 Black-breasted Button-Quail,  
 8 Chukar Partridges, 5 Crowned Wood-Partridges,  
 1 Wood Francolin, 3 Long-billed Francolins,  
 2 Himalayan Monauls, 1 Koklass Pheasant, 2 Nepal  
 Kaleege Pheasants, 5 Argus Pheasants, 4 Rufous-  
 tailed Fireback Pheasants, 1 Vieillot's Fireback  
 Pheasant, 4 Javan Peafowls, 5 Common Peafowls,  
 1 Red Jungle Fowl, 1 Sharpe's Crane, 3 White-  
 breasted Gallinules, 1 Water Cock, 2 Hawk-billed  
 Turtles, 1 Baska Water-Tortoise, 3 Spinose Land-  
 Emys, 3 Oldham's Terrapins, 1 Porose Crocodile,  
 1 Bengal Monitor, 4 Reticulated Pythons, 1 Indian  
 Python, 1 Blood Python, 4 Black Cobras,  
 1 Hamadryad.

ABBAY, Lady Ursula. 1 Kea Parrot.

APCAR, Mrs. Laura. 2 Avadavats.

ARMITAGE, H.E. Capt. C. H., C.M.G., D.S.O., F.Z.S.,  
 3 Patas Cercopitheques, 2 Guinea Baboons, 1 African  
 Civet, 2 African Porcupines, 1 Nagor Antelope,  
 2 Harnessed Antelopes, 1 Gambian Oribi, 1 Ælian's  
 Wart Hog, 2 Triangular-spotted Pigeons, 1 Bateleur  
 Eagle, 1 Saddle-billed Stork, 4 Collared Guinea  
 Fowls, 3 Ostriches, 2 Derbian Sternotheres, 1 Senegal  
 River-Turtle, 1 Broad-fronted Crocodile, 12 Nilotic  
 Monitors, 1 Gambian Skink, 2 West African  
 Chameleons, 1 Rufescent Snake, 1 Hissing Sand-  
 Snake, 1 Egg-eating Snake, 2 Emerald Tree-Snakes,  
 3 Land Crabs.

ARNOLD, Mrs. 1 Green Cercopitheque.

AUSTIN, Miss Maud. 1 Brown Capuchin.

BAILY, Mr. William Shore, F.Z.S. 1 Hobby, 1 Textor  
 Weaver-bird.

BALLARDIE, Mr. J. de. 1 Blue & Yellow Macaw.

BANNISTER, Mr. G. H. 2 Slowworms, 13 Common Vipers,

BARCLAY, Mr. H. Hay. 1 Little Owl.

BARING, The Hon Caryl. 1 Spotted Salamander.

BARKER, Mrs. Raymond. 2 Bramble Finches, 2 Chaf-  
 finches, 2 Redpolls, 1 Linnet, 1 Greenfinch, 1 Hybrid  
 Canary.

BARODA, H. H. Maharaja The Gaekwar of, G.C.S.I.  
 G.C.I.E. 2 Indian Elephants.

BARTLETT, Mr. A. R. 1 Pig-tailed Macaque.

- BASKIN, Mrs. F. E. Loughed, F.Z.S. 1 Slender-billed  
Cockatoo.
- BATTEN, Mr. Harry Mortimer, F.Z.S. 1 Badger.
- BEAVER, Mr. Hugh. 1 Roseate Cockatoo.
- BELL, Mrs. D. 1 Rosella Parrakeet.
- BENDIX, Mrs. Carl A. 1 Brown Capuchin.
- BINNING, The Rt. Hon. Lady. 2 Bullfinches.
- BISHOP, Miss G. E. 1 Roseate Cockatoo.
- BLAKE, Mr. E. T. 1 Short-headed Phalanger.
- BONE, Mrs. A. 1 Greater Sulphur-crested Cockatoo.
- BORRADAILE, Capt. C. 1 Abyssinian Cercopitheque,  
1 Caffer Cat.
- BOULTER, Mr. C. Stainton. 1 Orange Weaver-bird, 1 St.  
Helena Waxbill, 1 Blue-breasted Waxbill, 1 Zebra  
Finch, 1 Avadavat.
- BREALEY, Capt. Victor Sheldrick. 1 Brown Capuchin.
- BRETHEERTON, Mrs. Cyril. 1 Bearded Tit.
- BRIDGEWATER, Master Bentley. 1 Green Lizard.
- BROADHURST, Miss D. Ida. 1 Pardine Genet.
- BROOKE, Mr. H. C. 3 Brooke's Black Rats.
- BROOM, Dr. Robert, D.Sc., F.R.S., C.M.Z.S. 3 Lobed  
Chameleons.
- BROWN, Mr. G. S. 1 Common Marmoset.
- BROWN, Mr. J. 6 Green Turtles.
- BULLARD, Mr. Alfred. 1 Common Hare.
- BURRELL, Sir Merrick R., Bt., C.B.E. 1 Hen-Harrier.
- BÜTTIKOFER, Dr. Johann, D.Sc., C.M.Z.S. 1 Pocket  
Gopher.
- BYATT, H. E., Sir Horace Archer, K.C.M.G., H.M.Z.S.  
2 Abbott's Duikers, 2 Vociferous Sea-Eagles. 2 Tufted  
Umbres.
- CAMPBELL, Mr. Archibald M., F.Z.S. 3 Greater Amethyst  
Sunbirds, 5 Shining Weaver-birds, 2 Queen Whydah-  
birds, 1 Bronze-winged Mannikin, 2 Tui Parrakeets.
- CAMPBELL, Sergt. F. 1 Rhesus Macaque.
- CANADA, The Government of. 2 American Bisons.
- CARNARVON, The Earl of. 1 Sparrow-Hawk.
- CARRUTHERS, Miss A. M. 1 Brown Capuchin.
- CARTER, Col. Bertram. 1 Green Cercopitheque.
- CATER, Miss Joan. 1 Grey Mongoose.
- CATHCART, Mr. Alan. 1 Anubis Baboon.

- CHALMERS, Mr. George, C.M.Z.S. 4 Giant Toads, 1 Shovel-footed Ceratophrys.
- CHAMBERS, Mrs. Ellen, F.Z.S. 1 Pig-tailed Macaque.
- CHAMBERS, Miss E. 1 Budgerigar.
- CHAPMAN, Mr. G. B., F.Z.S. 2 Red-faced Weaver-birds, 2 Shining Weaver-birds, 2 Paradise Whydah-birds, 2 Crimson Finches, 2 Double-banded Finches, 2 Common Fire Finches, 2 Orange-cheeked Waxbills, 2 Golden-breasted Waxbills, 1 Superb Tanager, 1 Blue-beared Jay, 1 Dove.
- CHEESMAN, Capt. R. E., I.A., C.M.Z.S. *See* Cox, Sir Percy.
- CHILD, Mr. B. T. 12 Sword-tail Fish.
- CLARK, Mr. F. W., F.Z.S. 1 Common Hedgehog.
- CLARKE, Mrs. Leycester. 1 Algerian Tortoise.
- CLARKE, Mrs. Ursel M. 1 Little Owl.
- CLINTON, Lt. L. S. 1 Striped Hyæna.
- CODDINGTON, Mr. J. I. 2 Adorned Terrapins.
- COHEN, Lady Waley. 2 Paradise Whydah-birds, 2 Black-headed Mannikins.
- COLE, Mrs. Nina J. Chaloner, F.Z.S. 2 Laughing Kingfishers.
- COLEMAN, Mr. C. B. 1 Nilotic Crocodile.
- COLLINS, Lt.-Commander Rutherford. 1 Grison.
- CONNELL, Mr. C. 1 Little Owl.
- COOKE, Mr. P. S. 1 Rhesus Macaque.
- COX, Mr. Edward W. 1 Buzzard.
- COX, H.E. Maj.-Gen. Sir Percy, G.C.M.G., K.C.S.I., F.Z.S., and CHEESMAN, Capt. R. E., C.M.Z.S. 2 Persian Gazelles, 1 White-tailed Eagle, 1 Wood Pigeon, 2 Ostrich Eggs, 2 Egyptian Eryx, 1 Lacer-tine Snake.
- COX, Mr. R. 1 Laughing Kingfisher.
- CRAIG, Mr. A. Walker. 1 Leadbeater's Cockatoo.
- CUNNINGHAM, Master Danson. 2 Green Turtles.
- CURTIS, Mr. Arthur, F.Z.S. 2 Black-banded Geese.
- DANIEL, Capt. 1 Great Kangaroo.
- DAVIES, Miss Gladys. 1 Budgerigar.
- DAVIS, Mr. E. A. 1 Broad-fronted Crocodile.
- DAVIS, Mrs. L. C. 2 Pekin Robins.
- DEEDES, Major H. G. 1 Long-nosed Crocodile, 1 Nilotic Terrapin.

- DELACOUR, Mons. Jean, F.Z.S. 1 Mouse-tailed Agouti,  
1 Apure Tovi Parrakeet.
- DENNIS, Mrs. Cyril. 1 Orange Weaver-bird, 1 Masked  
Weaver-bird.
- DESPOTT, Mons. Giuseppe, C.M.Z.S. 18 Wall Lizards.
- DICKSON, Major. 1 Gmelin's Sheep, 1 Wild Boar.
- DILLON, Miss Ina. 1 Derbian Zonure.
- DOWDEN, Mr. W. J. 1 Alexandrine Parrakeet.
- DOWNIE, Engineer-Lt. W., R.I.M. 1 Greater Sulphur-  
crested Cockatoo.
- DUNSFORD, The Viscount. 1 Ocelot.
- EBBUT, Mr. —. 5 Common Snakes.
- ELLIOT, Mr. K. H. Riversdale. 1 Pennant's Parrakeet.
- ELLIOTT, Mrs. H. 1 Rhesus Macaque.
- EZRA, Mr. Alfred, O.B.E., V.P.Z.S. 49 Indian Fruit  
Bats, 2 Australian Flower-peckers, 6 Pink-winged  
Rose Finches, 1 Black-winged Grackle, 1 Dial-bird,  
2 Dwarf Turtle-Doves, 2 Tigrine Turtle-Doves, 2  
Indian Palm-Doves, 1 Hybrid Peafowl, 2 Verticil-  
lated Geckos, 2 Changeable Lizards, 2 Indian  
Pythons, 3 Indian Eryx, 4 Indian Rat-Snakes, 2  
Indian River-Snakes, 2 Clifford's Snakes, 2 Orna-  
mented Tree-Snakes, 2 Hamadryads, 13 Russell's  
Vipers, 3 Indian Cobras, 2 Common Kraits, 1 Banded  
Krait.
- FALKNER, Mr. Guy R., F.Z.S. 2 Indian Green-winged  
Doves, 1 Raven.
- FAVARGER, Mr. Henri, F.Z.S. 2 Otters.
- FAVRET, Mr. Primo. 1 Spot-billed Toucanet.
- FINNIS, Mrs. 1 Common Chameleon, 2 European Tree-  
Frogs, 1 Sunfish.
- FOSTER, Mr. W. J. 4 Badgers.
- FUR FARMS, The British. 1 Canadian Skunk.
- GAINFORT, Mrs. Kathleen S. 2 Black-headed Caiques.
- GARRY, J. Cozens, F.R.C.V.S. 1 Hedgehog.
- GEARS, Mr. C. M. 1 Bonnet Macaque.
- GIBB, Sir Alexander, G.B.E., C.B., F.Z.S. 2 Peregrine  
Falcons.
- GILES, Lt.-Col. Frank L., R.E. 1 Macedonian Wolf.
- GOODE, Mr. J. 1 Little Owl.
- GOODENOUGH, Miss Cecilia. 1 Meerkat.
- GOODMAN, Mr. W. 1 Green Singing Finch.

- GOLIGHTLY, Mrs. Alan. 1 White-thighed Guereza.
- GRAHAM, Sir Richard James, Bt., F.Z.S. 2 Wigeon,  
8 Common Teal.
- GRANDY, Mrs. L. 1 Slender Mongoose.
- GRANT, Nurse Sybil A. 1 Grey Mongoose.
- GRAY, Mr. H. 1 Rhesus Macaque.
- GREENWOOD, Mr. Charles. 1 Green Cercopitheque.
- GROSER, Mr. F. S. 2 Indian Wild Boars.
- GROSSMITH, Mrs. J. L. 6 Budgerigars, 11 Californian  
Quails.
- GUNN, Mr. F. E. 1 Woodcock.
- HACKET, Mr. D. H. 1 Flap-necked Chameleon.
- HALL, Miss M. Radclyffe, F.Z.S. 1 Red Squirrel, 1 Red-  
crested Cardinal.
- HAMILTON, Mrs. 1 Little Owl.
- HAMMOND, Mr. B. R. 1 Bonnet Macaque.
- HANDLEY, Mr. E. H. 1 Black-handed Spider Monkey.
- HARDING, Mr. W. A. H., F.Z.S. 1 Blue and Yellow  
Macaw.
- HARRISON, Miss. 1 Delalande's Gecko.
- HART, Mr. J. 1 Algerian Tortoise.
- HASERICK, Mr. Arthur A., F.Z.S. 1 Albino Mozambique  
Cercopitheque.
- HATFIELD, Major K. G. Stacy. 1 Peregrine Falcon.
- HAVELY, Mr. C. E. 1 Kestrel.
- HAWES, Mr. E. M., F.Z.S. 1 Javan Mynah.
- HAWKES, Miss. 1 Squirrel Monkey.
- HAYCOCK, Mr. H. B. 1 Bonnet Macaque.
- HAYDEN, Mr. J. W. 1 Kestrel.
- HIBBERDINE, Mr. A. W., F.Z.S. 1 Blue-fronted Amazon.
- HINDS, Mr. W. H. 1 Porose Crocodile.
- HING, Mrs. M. U. 1 Collared Peccary.
- HOBHOUSE, Miss Neill. 1 Bullfinch.
- HODGE, Mr. A. E., F.Z.S. 1 Speckled Terrapin.
- HOLBROOK, Miss H. 1 Rhesus Macaque.
- HOLLOWAY, Mr. Arthur W. H. 1 Grey Mongoose.
- HOLT, Messrs. John & Co., Ltd. 1 Cheetah.
- HOPKINSON, Dr. E., C.M.G., D.S.O., F.Z.S. 6 Textor  
Weaver-birds, 2 Rufous-necked Weaver-birds, 10  
Yellow-backed Whydah-birds, 2 Grey-headed Spar-  
rows, 2 Broad-tailed Babblers, 1 White-bellied  
Amethyst Starling.

- HUGHES, Mr. W. J. 1 Bare-eyed Cockatoo.  
 HUMPHREYS, Miss. 1 Red Squirrel.  
 HUNTER, Mrs. Edward. 1 Grey Parrot.  
 IMPEY, Mrs. 1 Red and Blue Macaw.  
 INCE, Mr. B. R. 3 Common Snakes.  
 JAMES, Mrs. A. 1 Common Marmoset.  
 JOHNSON, Mr. A. H. 1 Rosy-billed Duck, 1 Yellow-billed Duck.  
 JOHNSTON, Mrs. Lawson. 2 Red-crested Cardinals, 2 Quaker Parrakeets.  
 JONES, Mrs. Bence. 1 Saffron Finch.  
 JONES, Mr. H. W. 1 Tiger, 2 Leopard Cats.  
 JONES, Mr. W. Murray. 1 Orange-winged Amazon.  
 JOYCE, Mr. Archibald. 1 Blue-fronted Amazon.  
 KAY, Mrs. A. 1 Green Cercopitheque.  
 KEATS, Mr. William B. G. 2 Rooks.  
 KELLOCK, Mr. T. H. 1 Budgerigar.  
 KELLY, Dr. Howard A. 2 Bull Snakes, 2 Chicken Snakes, 2 Chained Snakes, 3 False Moccasins, 1 Brown Water-Snake, 2 King Snakes, 2 Boyle's King Snakes, 2 Copperheads, 2 Confluent Rattlesnakes 1 Horrid Rattlesnake.  
 KENDLE, Mrs. E. 1 Grey Mongoose.  
 KITCHEN, Mrs. W. 1 Alexandrine Parrakeet.  
 KITCHENER, Mr. H. J. 1 Roach.  
 KNOX, Miss F. L. 1 Roseate Cockatoo.  
 KOSTER, Mr. D. A. 1 Green Cercopitheque.  
 KRUSE, Mrs. 1 Ring-tailed Lemur.  
 LAMPSON, Sir Curtis George, Bt. 1 Gambian Pouched Rat.  
 LANGRIDGE, Mr. John, F.Z.S. 1 Mantell's Kiwi.  
 LAW, Mr. William Moran, F.I.C.S. 1 White-nosed Coati.  
 LAWRENCE, Mr. S. J. 4 Tench, 12 Roach, 10 Perch, 8 Pike.  
 LEAROYD, Mr. Cyril G., M.R.C.S., L.R.C.P. 4 Barred Doves.  
 LEIGH, Lady Norah M., C.B.E. 1 Feline Douroucoul.  
 LEUTCHFORD, Mr. C. 1 Indian Muntjac.  
 LEWIS, Miss. 1 Ring-necked Parrakeet.  
 LEWIS, Miss S. Waller. 1 Greater Sulphur-crested Cockatoo.  
 LITTLE, Lt.-Col. A. G., C.B.E. 1 Bullfinch.  
 LONGMAN, Mr. R. C. 1 Common Macaque.

- LOVERIDGE, Mr. Arthur, C.M.Z.S. 2 Tufted Umbres.
- LUCAS, Dr. Nathaniel, S., F.Z.S. 2 Red-crested Cardinals.
- LUCAS, Miss E. R. 3 Orange Weaver-birds, 1 Red-beaked Weaver-bird, 1 Three-coloured Mannikins, 1 Bronze-winged Mannikin, 2 Indian Silverbills, 2 Nutmeg Finches, 1 Zebra Finch, 1 Common Fire-Finch.
- LUCAS, Capt. Jocelyn, M.C. 1 Badger.
- LULHAM, Miss R. 1 Green Lizard.
- LYNCH, Mr. Henry J., F.Z.S. 1 Bush Dog.
- LYON, MISS ISABELLE M. J. 2 Bullfinches.
- MACE, Mr. Alfred. 1 Badger.
- MACKEY, Miss E. K. 2 Orange-cheeked Waxbills, 1 Common Waxbill, 3 Golden-breasted Waxbills, 2 Common Fire Finches, 1 Orange Weaver-bird, 2 Layard's Bulbuls.
- MCDONAGH, Miss Muriel. 1 Rhesus Macaque.
- MCLEAN, Mr. Colin. 1 Hooded Crow.
- MACMECOLL, Mr. A. T. 1 Crab-eating Raccoon.
- MACNEILE, Miss. 1 Three-coloured Tanager.
- MADDOCK, Mr. A. T. 1 Green Cercopitheque.
- MAGNIAC, Capt. Hollingworth. 1 Wild Cat.
- MALONE, Mrs. E. G. L'Estrange. 1 Grey Squirrel.
- MARSHALL, Mrs. C. 1 Rhesus Macaque.
- MARTEAU, Miss E. 1 Pekin Robin.
- MARTEN, Mr. R. N. 1 Diamond Bass, 2 Dwarf Gourami.
- MAUND, Mrs. G. Oakley, F.Z.S. 1 Algerian Tortoise, 2 Chinese Goldfish.
- MAVROGORDATO, Mr. G. M. 1 Green Cercopitheque.
- MAYURBHANJ, H. H., The Maharaja of, F.Z.S. 1 Lioness.
- MILLAR, Mr. Harold, C.M.Z.S. 1 Verreaux's Amethyst Starling.
- MITCHELL, Miss J. 1 Yellow-backed Lory.
- MITFORD, The Hon. E. R. 2 Porose Crocodiles.
- MONCKTON, Mr. George E. 1 Pig-tailed Macaque.
- MORGAN, Mr. J. 1 Crimson-eared Waxbill, 1 Common Waxbill, 1 Black-cheeked Waxbill, 1 St. Helena Waxbill, 2 Golden-breasted Waxbills, 1 Dufresne's Waxbill 2 Bronze-winged Mannikins, 1 Zebra Finch.
- MOSELEY, Mr. W. J. C. 1 Ring-tailed Opossum.
- MOTHER SUPERIOR OF THE CONVENT MARIA RÉPAVATOIRE.  
1 Green Woodpecker.
- MUDIE, Capt. D. C. 1 Leopard.

- MOYNAGH, Mr. W. J. 1 Uganda Chimpanzee, 1 Bateleur Eagle.
- MUNSTER FUSILIERS, THE ROYAL. 1 Abyssinian Cercopitheque.
- NAGAI, Mr. Tomisaburo. 13 Buerger's Tree-Frogs.
- NEALE, Mr. A. E. 1 Black-necked Crowned Crane.
- NEALE, Miss H. M. 2 Starred Tortoises.
- NEATE, Mr. T. S. 1 Smoky Woolly Monkey.
- NELSON, Mr. G. W. 2 Pardine Genets.
- NETTLETON, Mr. D. 1 Slowworm.
- NEW, Lady. 2 Senegal Touracous.
- NICHOLAS, Capt. Philip O. 3 Giant Toads.
- NICHOLLS, Mrs. 1 Kestrel.
- NORRIS, Mr. K. A. 1 Crested Newt (albino).
- OGILVIE, Capt. Fred J. 1 Black-gloved Wallaby.
- OPENSHAW, Mrs. E. 1 Alexandrine Parrakeet.
- ORPEN, Sir William, K.B.E. 1 Common Macaque.
- O'RILEY, Miss Irene. 1 Tawny Owl.
- OTTER, Mrs. 1 Barbary Sheep.
- PADDISON, Mr. R. H. 1 Himalayan Bear.
- PALMER, Lady Mary, F.Z.S. 1 Abyssinian Cercopitheque.
- PENEAU, Mrs. E. 1 Common Marmoset.
- PEPLOE, Major James Reid. 3 Alpine Marmots.
- PERRY, Mr. F. 1 Common Snake.
- PHILLIPS, Dr. J. G. Porter, F.Z.S. 1 Roseate Cockatoo.
- PLATT, Miss. 1 European Tree-Frog.
- POLE-CAREW, Mr. G. A. 9 Spotted Salamanders.
- POLLARD, Mr. John. 2 Common Marmosets.
- POMEROY, Mr. W. K., F.Z.S. 1 Pinché Marmoset.  
3 Rufous Pigeons, 2 Red Underwing Doves, 4  
Colombian Crested Colins, 2 Crimson-backed Tan-  
gers, 1 Brazilian Hangnest, 2 Colombian Red-  
rumped Hangnests, 2 Obsolete Tinamous, 1 Cayenne  
Rail.
- POOLE, Mrs. 1 Budgerigar.
- PORTAL, Mr. Maurice, D.S.O., F.Z.S. 1 Barn Owl.
- PORTER, Miss C. 1 Guillemot.
- PRADO, Dr. Paulo de Silva. 1 Sclater's Curassow, 1  
Crested Curassow, 2 Purplish Guans.
- PRETTY, Mr. C. J. 1 White-crested Cockatoo.
- PRICE, Mrs. F. Hamlyn. 1 Barbary Turtle Dove.
- PRUDDAH, Mr. John B. 1 Algerian Tortoise.
- PRYSE, Sir Lewes, Bt. 1 Polecat.

- PUGH, Mr. B. 1 Red-legged Partridge.  
 RADZIWILL, H.S.H. Prince Charles. 2 Black Storks.  
 RAND, Mr. F. S. 1 Common Chameleon.  
 RATHBORNE, Mrs. M. F. 1 Yellow Hangnest.  
 REYNOLDS, Mrs. E. 1 Budgerigar.  
 RICARD, Mr. Charles, F.Z.S. 1 Greater Sulphur-crested  
 Cockatoo.  
 RICHARDSON, Mr. 1 Green Cercopitheque.  
 ROBBINS, Mr. H. 1 Albino House Sparrow, 1 Reeves's  
 Pheasant.  
 ROBEY, Mrs. George. 1 Greater Amethyst Sunbird, 1  
 Malachite Sunbird.  
 ROOKE, Miss M. 1 Blue-fronted Amazon.  
 RORKE, Capt. A., M.C., R.E. 1 Bonnet Macaque.  
 ROTTERDAM, The Zoological Gardens. 3 Pocket Gophers.  
 ROW, Miss A. H. 1 Common Macaque.  
 ST. QUINTIN, Mr. W. H., F.Z.S. 1 Egyptian Jerboa,  
 1 Bittern, 2 Falcated Ducks, 1 Himalayan Monaul.  
 SAUNDERS, Mr. 1 Tayra.  
 SCALE, Dr. J. W. 1 Turtle Dove.  
 SCALES, Mr. T. F. 2 Rough-eyed Cayman.  
 SEARLE, Mrs. Dorothy. 1 Lesser Sulphur-crested  
 Cockatoo.  
 SELBY, Mr. H. 1 Jackdaw.  
 SEVASTOPOULO, Mrs. G. D., F.Z.S. 1 Sunfish.  
 SEYMOUR, Miss M. L. 1 Tantalus Cercopitheque.  
 SHACKELL, Mr. R. 2 Magpies.  
 SHATTOCK, Mr. J. R. 2 Black-banded Cyprinodons, 4  
 Golden Cyprinodons, 4 Timid Cyprinodons, 2 Gular  
 Cyprinodons, 2 Poey's Cyprinodons, 2 Chaper's  
 Cyprinodons, 2 Broad-finned Cyprinodons, 2 Blotched  
 Cichlids, 4 spotted Cichlids, 2 Black-banded Cichlids,  
 2 South-American Cichlids, 2 Blue Cichlids, 2  
 Brazilian Cichlids, 2 Fighting Fish, 2 Rainbow  
 Fish, 2 Spotted Fish, 2 Malay Fish, 2 Malabar Fish,  
 2 Paradise Fish, 2 Black and White-finned Fish,  
 2 Hybrid Sword-tail Fish, 2 Knife Fish, 2 Arnold's  
 Fish, 2 Black-spotted Fish, 2 Blue-finned Fish,  
 4 Thread-finned Fish, 2 Mouth Breeders, 2 Dwarf  
 Gourami, 2 Red-tailed Fish, 2 Cuvier's Fish, 2 Small  
 Zebra Fish, 2 Large Zebra Fish, 2 Dwarf Barbel,  
 4 Rosy Barbel, 2 Striped Barbel.

- SHAW, The Rev. A., C.M.S. 1 Reinhardt's Snake, 2 Puff Adders.
- SHEPPARD, Mrs. S. 1 Green Cercopitheque.
- SHERBORN, Mr. C. Davies, F.Z.S. 2 Goldfinches.
- SHERRIFF, Mr. Albert, F.Z.S. 1 Common Boa.
- SHIPWAY, Mrs. Bruce. 1 Bonnet Macaque.
- SIDLEY, Major Harold W. 1 Crowned Hawk-Eagle, 1 White-crested Hornbill, 8 Collared Guinea-fowls.
- SINGH, H.H. Raja Sir Birendra, K.C.I.E. 1 Tiger.
- SITWELL, Mrs. C. A. Wilmot. 1 Red-crested Cardinal.
- SLATER, Miss Joan. 1 Demidoff's Galago.
- SMITH, Mr. Claud H. 1 Raven.
- SMITH, Mr. Noel J. 1 Guinea Baboon.
- SMITH, Mr. W. J. 2 Black Rats.
- STOCKLEY, Mr. A. H. 1 Blue and Yellow Macaw.
- SOUTHCOTTE, Mr. Stanley, F.Z.S. 2 Green Lizards, 2 Wall Lizards, 1 Common Snake, 1 Dark-green Snake.
- SPARKS, Mrs. A. 1 Greater Sulphur-crested Cockatoo.
- SPARROW, Miss. 1 Tawny Owl.
- SQUIRE, Mr. T. A. 2 Kestrels.
- STANYFORTH, Mrs. M. E., F.Z.S. 1 Red-crested Cardinal.
- STEVENS, Mr. H. 1 Indian Kestrel, 1 Nepal Scops Owl.
- STEWART, Mr. F. D. 1 Mona Cercopitheque, 1 Sooty Mangabey.
- STOKES, Capt. H. S., F.Z.S. 2 African White-eyes, 1 Indian White-eye, 5 Green Avadavats, 2 Red-crested Finches, 2 Bauer's Parrakeets, 2 Masked Doves.
- SUTHERLAND, Mr. R. S., F.Z.S. 1 Earl's Weka Rail.
- SWYNNERTON, Mr. C. F. M., C.M.Z.S. 1 Vociferous Sea-Eagle.
- TAIT, Miss Muriel R. 1 Common Wolf, 3 Spanish Ravens.
- TALBOT-PONSONBY, Mr. C. G., F.Z.S. 1 Amherst's Pheasant, 2 Ring-necked Pheasants.
- TATCHELL, Mr. Leonard S., F.Z.S. 2 Black-headed Mannikins, 1 Zebra Finch, 2 Yellow Buntings.
- TEMPLE, The late Mr. W. R. H., F.Z.S. 1 Golden Agouti.
- TESTER, Miss A. I. 1 Common Fox.
- THOMPSON, Mr. A. G. 1 Rhesus Macaque.
- THOMPSON, Mrs. Hedley. 1 European Pond Tortoise.
- THURGOOD, Miss Phyllis. 1 Blue-fronted Amazon.
- THURSBY, Mrs. Hugh. 1 Red-backed Squirrel Monkey.
- TICKELL, Mr. J. M. M. 1 Long-eared Owl.

- TIDY, Mrs. John O. 1 Bonnet Macaque.
- TILLEARD, Mr. R. 1 Roseate Cockatoo.
- TOWERS, Mr. S. 1 Grey Mongoose.
- TRACY, Mr. T. F. 3 Golden Orfe.
- TRENCH, Miss Joan le Poer. 1 Spanish Terrapin.
- TUCKER, Mr. E. 1 Burnett's Cercopitheque.
- TUPPER, Mr. E. L. 1 Mona Cercopitheque.
- TURRELL, Mr. E. H. V. 1 Squirrel Monkey.
- TWEDE, Mrs. C. 1 Green Cercopitheque.
- TWITE, Mr. Leslie. 1 Abyssinian Cercopitheque.
- UPSTONE, Mr. G. C. 1 Mona Cercopitheque, 1 Patas Cercopitheque, 1 White-spotted Squirrel.
- URQUHART, Mr. *See* Capt. Daniel.
- VERNER, The Hon. Mrs. Willoughby. 1 Bonelli's Eagle, 1 Great Eagle Owl.
- VINCENT, Mr. J. 1 Otter.
- VINCENT, Mrs. M. K. 1 Entellus Langur.
- VOOGHT, Mr. M. C. 1 Green Cercopitheque.
- WAIT, Miss L. M. St. A., F.Z.S. 3 Grey Singing Finches, 2 Green Singing Finches, 1 Grey-necked Serin, 1 Sundevall's Serin.
- WARWICK, The Countess of, F.Z.S. 2 Mona Cercopitheques, 1 Bonnet Macaque.
- WATERSTON, Mr. A. Rodger. 1 Richardson's Skua.
- WATLING, Mr. Herbert, F.Z.S. 1 Hainan Gibbon.
- WEBB, Mrs. Eleanor. 1 Greater Sulphur-crested Cockatoo.
- WELLS, Mr. H. 1 Bull Snake.
- WELSH PEARSON FILM Co., The. 1 Golden Eagle.
- WILKINS, Mrs. G. H. C. 1 Greater Sulphur-crested Cockatoo.
- WILLIAMS, Mr. A. 1 Brown Capuchin.
- WILLIAMS, Miss Doris M. 1 Common Marmoset.
- WILLIAMS, Mr. F. A. 1 Green Cercopitheque.
- WILLIAMS, Major C. R., D.S.O., M.C., F.Z.S. 3 Abyssinian Cercopitheques, 1 Patas Cercopitheque.
- WILLIAMS, Mrs. Rose Rufus. 1 Roseate Cockatoo.
- WILSON, Mrs. Bowes. 1 Common Chameleon.
- WILSON-BARKER, Capt. Sir David, R.N.R. 1 Squirrel Dormouse, 1 Slowworm.
- WINN, The Hon. Mrs. Charles, F.Z.S. 1 Indigo Bunting, 1 Nonpareil Bunting, 1 Rock Bunting.
- WITHERS, Mrs. Henry J. 1 Mozambique Cercopitheque.
- WOOLWARD, Miss Florence. 1 Algerian Tortoise.

## ACCOUNTS.

34. STATE OF THE FINANCES.—The Report of the Auditors of the Accounts for 1922 is issued to Fellows, bound with this report.

35. ASSETS 1921 AND 1922.—The Total Assets of the Society amounted to £116,382 10s. 2d., a decrease of £7,608 0s. 4d. on the corresponding figures for 1921. This is the net result of various changes of which the principal was the utilisation of the fund which has been accumulating for the rebuilding of the Refreshment Rooms.

36. LIABILITIES 1921 and 1922.—The cash liabilities amounted to £5,796 15s. 10d., a decrease of £3,010 18s. 9d. on the corresponding figures for 1921, due chiefly to the loan from the Bankers having been extinguished by a final payment of £3,000.

37. BALANCE 1921 AND 1922.—The balance, a surplus of assets over liabilities, amounted to £110,585 14s. 4d., a decrease of £4,597 1s. 7d. on the corresponding figure for 1921, and representing the difference between the decrease in assets (paragraph 35) and decrease in liabilities (paragraph 36).

38. INCOME 1921 AND 1922.—There was a net decrease in income of about £600 due chiefly to gate-money; although the total number of visitors was larger, the restoration of the 6d. admission on Mondays brought less money.

39. EXPENDITURE 1921 AND 1922.—There was an increase of about £3,440 in expenditure due partly to costs connected with the Prince of Wales' Indian and Malay collections and partly to increase in the number of large animals in the Gardens.

40. GENERAL STATE OF THE FINANCES.—The finances of the Society are in a satisfactory condition which would be more apparent if credit were taken for the large outlay on improvements and additions to the buildings in the Gardens.

41. The Council wishes to acknowledge the assistance received during the past year from the members of the Committee of Publication, upon whom devolved, in accordance with the By-laws, the arrangement and supervision of the Society's Scientific Publications.

The Council has 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.*

Zoological Society,

London, N.W. 8,

March 21st, 1923.

BALANCE SHEET

# REPORT OF THE COMMITTEE OF AUDITORS OF THE ACCOUNTS

OF THE

# ZOOLOGICAL SOCIETY

OF LONDON,

APPOINTED 17th JANUARY, 1923.

To

22nd February, 1923.

The Zoological Society of London,  
Regents Park, N.W.8.

In accordance with Chapter X of the By-laws, we have examined the Accounts of the Society for the year ended 31st December, 1922, as presented to us by Messrs. W. B. Keen & Co., Chartered Accountants, the Auditors appointed to assist us in our duties. We report to the Society that at that date the Total Assets amounted to £116,382 10s. 2d., and the Liabilities to £5,796 15s. 10d. The General State of the Funds of the Society therefore showed a surplus of Assets over Liabilities amounting to £110,585 14s. 4d., subject to the estimated values of some of the Assets. The Cash in the Bankers' hands and at the Office amounted to £19,977 17s. 9d.

For the further information of the Fellows of the Society a Balance Sheet and Income and Expenditure Account for the year are annexed hereto. These have been audited and are certified by Messrs. W. B. Keen & Co. The result of the working of the Refreshment Department for the year ended 30th September, 1922, is incorporated in the Statements, the Accounts of that Department having been separately audited and certified by Messrs. Edward Moore & Sons, Chartered Accountants. We have examined the Statements of Account and in our opinion the Balance Sheet is properly drawn up so as to exhibit a true and correct view of the state of the Funds of the Society (subject to the estimated values of some of the Assets) according to the best of our information and the explanations given to us and as shewn by the Books of the Society.

(Signed) FRED W. CLARK (*Chairman*).

M. B. ANDRADE.

F. B. BUNNY.

JULIUS GARRATT.

CHAS. H. GITTENS.

J. E. SAUNDERS.

JOHN TULLY.

## BALANCE SHEET, 31st DECEMBER, 1922.

Corresponding figures 31st Dec., 1921.			LIABILITIES.			Corresponding figures 31st Dec., 1921.			
£	s.	d.	£	s.	d.	£	s.	d.	
3,366	0	0	To Sundry Creditors for Rent, Taxes, Printing, &c.	4,964	15	2			
			„ Messrs. Drummond—						
			Loan Account ... ..	3,000	0	0			
			Less Paid off during year ... ..	3,000	0	0			
3,000	0	0							
578	10	7	„ Subscriptions received in advance ... ..	832	0	8			
			„ Davis Trust Fund—						
			Dividends on Investment payable towards Fees of Editor of "Zoological Record"— ...						
53	4	0							
1,720	0	0	„ RESERVES FOR WORKS, &c. ... ..						
			„ RESERVE FOR LIBRARY—						
			Captain Treacher Bequest ... ..						
90	0	0							
			„ Balance, being Excess of Assets over Liabilities, viz. :—						
			Composition Funds—						
			Balance at 1st January, 1922	£10,800	0	0			
			Add 11 Fees @ £45 received during year ...	495	0	0			
			1 Fee @ £30 received during year ...	30	0	0			
			Profit on Changing Investment Securities ...	58	4	3			
10,800	0	0		11,383	4	3			
			„ Animal Insurance and Purchase Fund—						
			Balance at 1st January, 1922 ... ..	£1,170	16	5			
			Add Interest received ... ..	29	4	0			
1,170	16	5		1,200	0	5			
			„ Refreshment Room Rebuilding Fund—						
			Balance at 1st January, 1922	11,962	17	8			
			Add Profit on Realisation of Investments ... ..	1,115	17	11			
				13,078	15	7			
			Deduct Expenditure during Year ... ..	12,389	19	8			
			Balance transferred to Income and Expenditure Account (page 55) ...	£688	15	11			
11,962	17	8							
£32,741	8	8	Carried forward ... ..	£12,583	4	8	£5,796	15	10

Corresponding figures 31st Dec., 1921.			ASSETS.			Corresponding figures 31st Dec., 1921.			
£	s.	d.	£	s.	d.	£	s.	d.	
			By Animals in Menagerie at Regent's Park as at 31st December, 1921 ... ..	17,226	0	0			
			Add Net Increase at 31st December, 1922 ... ..	3,542	0	0			
17,226	0	0				20,768	0	0*	
2,122	2	11	„ Plant and Fittings in Refreshment Department			2,122	2	11*	
			„ Freehold Property at Hanover Square as per last Balance Sheet ... ..	30,000	0	0			
			Less Depreciation on Re-Valuation ... ..	7,000	0	0			
30,000	0	0				23,000	0	0	
			„ Fittings in Buildings and Enclosures at the Gardens, Regent's Park (not valued) ...						
28,480	15	0	„ Books in Library ... ..			28,480	15	0*	
500	0	0	„ Unsold Publications ... ..			500	0	0*	
500	0	0	„ Stock of "Zoological Record" ... ..			500	0	0*	
500	0	0	„ Stock of Official Guides (at cost) ... ..			250	0	0	
50	0	0	„ Petrol Users and Traders Supply, Ltd., 50 Shares of £1 each, at Cost ... ..			50	0	0	
			„ Debts due to the Society (since received or considered good)—						
			Rent of Freehold Property, Hanover Square	300	0	0			
			Arrears of Fellowship Subscriptions, £321, estimated to realise ... ..	100	0	0			
			Arrears of Fellowship Admission Fees ...	305	0	0			
			Publication Sales ... ..	159	18	9			
			"Zoological Record" Sales ... ..	131	8	3			
			Income Tax recoverable ... ..	598	12	5			
			Miscellaneous ... ..	213	5	3			
1,003	13	3				1,808	4	8	
567	12	8	„ Rates and Insurance paid in advance ... ..			541	13	7	
			„ Compilation Fees, etc., of "Zoological Record" not yet published ... ..	230	15	5			
			Less Amount received from Davis Trust Fund	54	3	0			
						176	12	5	
			„ Investments of Composition Funds, at Cost:						
			£1,443. 19s. 1d., London County 3½ per cent. Stock ... ..	1,440	0	0			
			£5,615. 13s. 4d. India 3½ per cent. Stock ...	5,205	0	0			
			£6,654. 4s. 7d. 3½ per cent. Conversion Stock	4,693	4	3			
10,665	0	0				11,338	4	3	
			Carried forward ... ..	£91,615	3	10	£89,535	12	10

\* As per Valuations by Society's Officials.

Corresponding  
figures,  
31st Dec., 1921.

## LIABILITIES.

£	s.	d.	£	s.	d.	£	s.	d.	
32,741	8	8	Brought forward ...	12,583	4	8	5,796	15	10
<b>To Balance, being Excess of Assets over Liabilities—continued.</b>									
„ Refreshment Department—Plant and Renewals Fund—									
			Balance at 1st January, 1922	2,700	0	0			
			Add further Transfer from profits for 52 weeks to 30th Sept., 1922, to be paid over	300	0	0			
				3,000	0	0			
			Amount retained for Working Capital ...	300	0	0			
3,000	0	0		3,300	0	0			
„ Depreciation of Investments Reserve Fund—									
			As at 1st January, 1922 ...	4,967	10	3			
			Add Profit due to changing Investment Securities ...	19	11				
				4,968	10	2			
			Deduct Excess of Fund carried to General Purposes ...	2,099	10	7			
4,967	10	3	As per contra ...				*2,868	19	7
„ General Purposes—									
			Balance at 1st January, 1922	£83,281	11	7			
Add—									
			Excess of Income over Expenditure during year... ..	9,910	7	11			
			Increase in value of Animals in Menagerie	3,542	0	0			
			Reduction in Depreciation of Investments Reserve Fund ...	2,099	10	7			
				98,833	10	1			
			Deduct Depreciation on Re-valuation of Premises, Hanover Sq.	7,000	0	0			
83,281	11	7		91,833	10	1			
							110,585	14	4

\*NOTE.—At Minimum Stock Exchange Quotations at 31st December, 1922, the Securities held were valued at £16,038 12s. 7d., shewing a Depreciation on original cost of £1,568 11s. 3d.

£123,990 10 6

£116,382 10 2

Corresponding  
figures,  
31st Dec., 1921.

## ASSETS.

£	s.	d.	£	s.	d.	£	s.	d.				
91,615	3	10	Brought forward ...			89,535	12	10				
			By Investment of Animal Insurance and Purchase Fund, at Cost, £1,610 16s. 8d.—2½ per cent. Consolidated Stock ...	1,000	0	0						
								1,000	0	0		
			„ Investment of Refreshment Room Rebuilding Fund, at Cost ...	13,562	17	8						
			„ Investments on Account of Refreshment Department Plant, &c., Renewals Fund, at Cost, £312 17s. 1d. New South Wales 4 per cent. Stock ...				300	0	0			
			£300 5½ per cent. Exchequer Bonds, 1925 ...				300	0	0			
			£1,970 19s. 8d. 5 per cent. War Stock ...				1,800	0	0			
2,400	0	0							2,400	0	0	
			„ Investments on Account of Depreciation of Investments Fund, at Cost, £3,029 17s. 8d. 3½ per cent. Conversion Stock ...				2,140	19	11			
			£756. 15s. 0d. 5 per cent. National War Bonds, 1927 ...				727	19	8			
2,867	19	8							2,868	19	7	
			„ Refreshment Department Current Assets at 31st December, 1922—									
			To be Invested ...				300	0	0			
			Retained for Working Capital ...				300	0	0			
600	0	0							600	0	0	
2,807	18	5	„ Cash at Bank, General Account ...				3,553	4	6			
8,500	0	0	„ „ „ „ Deposit Account ...				15,514	12	4			
53	4	0	„ „ „ „ Davis Trust Fund ...									
			„ „ „ „ Refreshment Department, Plant, &c., Renewals Fund ...				300	0	0			
170	16	5	„ „ „ „ Animal Insurance and Purchase Fund ...				200	0	5			
135	0	0	„ „ „ „ Composition Funds ...				45	0	0			
277	10	6	„ „ „ „ Office ...				365	0	6			
										19,977	17	9

£116,382 10 2

## INCOME AND EXPEN

FOR THE YEAR ENDED

Corresponding figures, 31st Dec., 1921.		INCOME.		£ s. d.		£ s. d.	
£	s. d.						
1,810	0 0	Admission Fees (New Fellows)	...	1,940	0 0		
12,721	0 0	Subscriptions (Fellows)	...	13,079	0 0		
1,362	12 7	Dividends and Interest received	...	1,115	16 5		
1,000	0 0	Rent of Refreshment Rooms	...	1,000	0 0		
1,200	0 0	Rent of Hanover Square Premises	...	1,200	0 0		
11	0 0	Rent of Bath Chairs	...	11	0 0		
46,509	2 10	Admissions to Gardens...	...	45,025	7 8		
2,427	19 10	Riding Receipts...	...	2,325	5 0		
129	12 8	Sale of Animals, &c.	...	737	11 7		
		Sale of Official Guides and Picture Postcards	...	3,926	13 2		
		<i>Deduct Expenses re Printing, etc.</i>	2,063 9 2				
		<i>Less Stock-in-hand, estimated</i>	250 0 0				
				1,813	9 2		
1,965	15 6			2,113	4 0		
		Sale of "Zoological Records"—					
		Current, Vols. 56 and 57	...	364	4 8		
		Previous Volumes...	...	774	5 9		
738	1 8			1,138	10 5		
		Sale of Transferable Ivory Tickets and Photographers' Permits	...	107	2 6		
519	12 0	Lavatories Receipts	...	549	11 6		
645	3 10	Income Tax deducted from Dividends recovered	...	208	13 10		
		Lectures and Demonstrations:—					
		Grants from London County Council	...	50	0 0		
		<i>Less Working Expenses</i>	...	19	1 0		
49	0 0			30	19 0		
		Refreshment Department Profit to September 30th, 1922	...	8,800	0 0		
8,857	12 1	Miscellaneous Receipts...	...	4	5 6		
17	15 8						
		Carried forward	...	£79,386	7 5		
£80,067	13 8						

## DITURE ACCOUNT.

31ST DECEMBER, 1922.

Corresponding figures, 31st Dec., 1921.		EXPENDITURE.		£ s. d.		£ s. d.	
£	s. d.						
3,461	4 2	Rent, Rates, Taxes and Insurance, Gardens	...			3,109	17 3
		Income Tax (Schedule D)	...	1,863	4 6		
		<i>Less Reserve</i>	...	600	0 0		
						1,263	4 6
277	10 0	Property Tax, Refreshment Department	...			269	17 11
15,917	5 9	Salaries, Staff and Keepers, Gardens	...			16,180	0 0
3,679	6 6	Do. Office	...			3,711	9 8
1,086	16 0	Pensions, Gardens	...			1,045	19 4
355	0 0	Do. Office	...			342	0 0
9,869	19 1	Provisions, including Storekeeper's Wages	...			10,411	4 6
2,512	16 10	Cost and Carriage of New Animals	...			2,868	13 8
		Menagerie Expenses:—					
		£ s. d.					
1,392	1 2	Fuel	...	1,245	12 11		
209	0 6	Straw	...	201	14 8		
908	4 5	Water	...	1,383	7 0		
564	15 8	Keepers' Uniforms	...	384	2 0		
413	3 8	Tools, Implements, Fittings, &c.	...	252	9 6		
77	18 7	Labels and Drawings	...	121	3 0		
213	1 11	Sand, Sawdust, Turf, &c.	...	169	17 2		
50	7 6	Medical Attendance	...	52	17 5		
22	3 6	Sanatorium and Veterinary Expenses	...	19	2 2		
111	4 2	Cart repairs, Saddlery, &c.	...	60	6 3		
374	16 2	Net Cost of Upkeep of Motors	...	589	19 0		
241	1 11	Cleaning Materials and Disinfectants	...	231	3 8		
77	1 8	Refuse removal	...	50	16 0		
56	14 0	Police Attendance	...	64	12 0		
105	14 7	Gas and Repairs to Ventilating Engine	...	74	12 0		
0	7 6	Garden Seats	...	34	14 6		
55	15 3	Sundries	...	58	11 0		
4,873	12 2					4,995	0 3
		Prosectorium Expenses:—					
		Salaries	...	835	8 2		
		Chemicals, Apparatus, &c.	...	143	6 9		
1,067	18 5					978	14 11
		Maintenance of Buildings, Paths, &c. Gardens:—					
		Wages	...	5,339	1 11		
		Materials, &c.	...	3,360	17 8		
8,294	12 3					8,699	19 7
		Gardeners' Expenses:—					
		Wages	...	3,103	3 2		
		Seeds, Plants, Implements, &c.	...	473	5 6		
3,618	3 3					3,576	8 8
		Carried forward	...	£55,014	4 5		
						£57,452	10 3



INCOME AND EXPEN

Corresponding  
Figures,  
31st Dec., 1921.

£ s. d.  
80,067 13 8

INCOME.

Brought forward

£ s. d.  
79,386 7 5

£80,067 13 8

£53 4 0 Dividends

We hereby certify that we have audited the Books, Accounts and Vouchers of the Society for the year ended 31st December, 1922, and have found them to be in order and that the above Balance Sheet and accompanying Income and Expenditure Account have been drawn up in strict conformity therewith and that they fully and truly set forth the position as shown by the Books of the Society. We have verified the Investments and the Cash Balances, and have received all the explanations and information we have required.

23, Queen-Victoria Street, E.C. 4,  
22nd February, 1923.

DITURE ACCOUNT—continued.

Corresponding  
Figures,  
31st Dec., 1921.

£ s. d.  
63,407 13 11  
18 15 9

EXPENDITURE.

£ s. d. £ s. d.  
65,993 4 10  
7 17 0

Brought forward

Miscellaneous Payments

Expenditure on Special Works:—

Otter Pond ... 695 15 0  
Less Reserve ... 670 0 0

25 15 0

Alterations to Heating at Lion  
and Reptile Houses ...

1,376 8 11

Elephant House Floor ...

180 9 11

Elephant Riding Steps ...

135 0 0

Raccoon Enclosure ...

85 2 3

Aquarium (Incidental Expenses  
re Plans, &c.) ...

78 1 3

Prince of Wales Collection:—

Exhibition Buildings ... 1,304 15 2  
Transport, etc. ... 1,027 19 1

2,332 14 3

4,213 11 7

Deduct:—Reserve for alter-  
ations to gates ... 450 0 0  
Less Expenditure ... 400 2 0

450 0 0  
400 2 0

49 18 0

Balance of Reserve Fund  
for Refreshment Pavi-  
lion (see page 46) ...

688 15 11 738 13 11

3,474 17 8

888 19 7  
1,720 0 0 Amount reserved for Special Works

66,035 9 3

Balance, being excess of Income over Expenditure, carried to  
Balance Sheet ...

14,032 4 5

69,475 19 6

9,910 7 11

£80,067 13 8

£79,386 7 5

DAVIS TRUST FUND.

£1,900 London and South Western Railway New 4 per cent. Preference Stock.

£54 3 0

£53 4 0 Applied towards Fees of Editor of "Zoological Record" ... £54 3 0

W. B. KEEN & Co.,  
Chartered Accountants