

REPORTS

OF THE

COUNCIL AND AUDITORS

OF THE

ZOOLOGICAL SOCIETY

OF LONDON,

FOR THE YEAR 1928.

PREPARED FOR THE ANNUAL GENERAL MEETING,

TO BE HELD ON

MONDAY, APRIL 29TH, 1929,

AT 4 P.M.

PRINTED BY

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1929.

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REPORT OF THE COUNCIL

for the year ended 31st December, 1928.

ANNUAL GENERAL MEETING.

1. The Council has pleasure in presenting its hundredth Annual Report to the General Meeting of the Society to be held on Monday, April 29th, 1929, at 4 p.m., at the Offices of the Society, in the Gardens, Regent's Park, N.W.8.

Only the necessary formal business on the Agenda will be taken in the Society's Meeting Room at the Gardens, and the Meeting will be adjourned to be resumed at 5 p.m., on the same day, at the Great Hall of University College, entrance in Gordon Street, W.C.1, kindly lent by the Provost, where it will become the Centenary Celebration Meeting of the Society. Tickets, not transferable, admitting a Fellow can be obtained from the Secretary of the Society, with, when special request is made in writing, an extra ticket for a friend. No seats will be reserved after 4.45. As the accommodation at the Gardens is limited, Fellows, unless they desire to raise questions on the Reports, should go direct to the Centenary Meeting. (See Paragraph 3.)

2. PROCEDURE AT THE ANNUAL GENERAL MEETING.

(By-law, 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. CELEBRATION OF THE CENTENARY OF THE SOCIETY.— Although the Zoological Society of London was founded in 1826, it did not receive its Royal Charter until 1829. Its Annual Meeting must take place on April 29th, or the nearest convenient day thereto, and must be held in the Rooms of the Society. It has been arranged, as stated in paragraph 1, to adjourn the Ordinary Annual General Meeting, when the routine business has been concluded, to University College Great Hall, where at 5 o'clock, the President will receive British and Foreign guests and Celebration speeches will be delivered. On the same evening the Society's guests will be entertained at dinner, past and present members of Council, of the Committee of Publication and of the Audit Committee acting as hosts, but paying for their own dinner tickets.

It has also been arranged to hold a function at which all the Fellows can join in the Centenary Celebration. This is to take the form of a Garden Party to be held at the Gardens of the Society, Regent's Park, from 8.15 p.m. to 11 p.m., on the evening of Thursday, June 20th.

A circular invitation will be posted in May to each Fellow, inviting him to apply for a ticket admitting him or herself and one guest. Fellows will be permitted to purchase not more than two additional tickets, for members of their family at 5s. each. The various Houses will be opened and light refreshments will be provided.

4. CENTENARY VOLUMES.—The following volumes, prepared in connection with the Centenary and published by the Society, are now in the Press :—

Centenary History of the Zoological Society of London.
With many Portraits. Written by the Secretary.
Published Price 25s. net. Subscription Price to
Fellows and the Trade, 20s.

List of the Animals, 1826–1927. Being a Classified List
of all the Species of Vertebrated Animals living in the
Society's Gardens from 1826 to 1927 inclusive, giving
for each Species the Scientific Name, the various
Synonyms or other Scientific Names that have been
applied to it, popular, local and trade Names where
known, a reference to the original description and
where possible to a figure and popular description.

Vol. I.—Mammals. By Major Stanley Smyth Flower,
O.B.E., F.Z.S. Published Price 25s. net. Subscription
Price to Fellows and the Trade, 20s.

Vol. II.—Birds. By George Carmichael Low, M.A.,
M.D., F.R.C.P., F.Z.S. Published Price 25s. net.
Subscription Price to Fellows and the Trade, 20s.

Vol. III.—Reptiles, Amphibians and Fishes. By Major
Stanley Flower, O.B.E., F.Z.S., Malcolm Arthur
Smith, M.R.C.S., L.R.C.P., F.Z.S., and Edward
George Boulenger, F.Z.S. Price 25s. net. Subscription
Price to Fellows and the Trade, 20s.

Fellows who wish to subscribe for any of these volumes should send their order and cheque to the Secretary of the Society as soon as possible.

5. ROLL OF FELLOWS.—The number of Fellows and Fellows-Elect on January 1st, 1928, was 7,687, and on January 1st, 1929, was 8,067. In 1928, 735 Fellows were elected or re-admitted as compared with 728 in 1927.

	1927.	1928.
Compounders at £30 (Elected before Dec., 1906)	477	448
Compounders at £45 (Elected after Nov., 1906)	339	356
Compositions remitted	19	18
Paying annually £3	6,561	6,959
Dormant (paying £1 since 1911)... ..	207	219
Do. subscriptions remitted... ..	12	12
*Admission Fees unpaid	72	55
	7,687	8,067

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

6. FOREIGN MEMBERSHIP.—The following three Corresponding Members were elected Foreign Members to fill vacancies in the List caused by the deaths of Professor William Leche, of Stockholm, Dr. Samuel Garman, of Cambridge, Mass., U.S.A., and Professor E. L. Trouessart, of Paris :—

Dr. Thomas Barbour, of the Museum of Comparative Zoology, Harvard, Cambridge, Mass., U.S.A.

Professor Marcellin Boule, of the Natural History Museum, Paris.

Professor Louis Roule, of the Natural History Museum, Paris.

7. CORRESPONDING MEMBERSHIP.—As described in the Annual Report for 1924 (Paragraph 5), the Society, on

the initiation of Council, formed a new class of Corresponding Members, with the object of giving some of the privileges of the Society to professional zoologists, especially those holding junior posts out of London, at the reduced subscription of £1 1s. a year and without entrance fee. Full particulars and proposal forms can be obtained from the Office.

The rules for Corresponding Members of the original class have not been altered. Candidates, who must not be resident in Great Britain or Ireland, are selected by Council usually at the November Meeting, and are afterwards submitted to ballot. They are persons of British or Foreign nationality who are either Zoologists of distinction, or have done the Society special service or have otherwise assisted in promoting its objects.

8. NEW CORRESPONDING MEMBERS (*Division I., Residents Abroad*).—The following were elected to fill vacancies on the List :—

Goh Keng Mian, Esq., 8, North Boat Quay, Singapore, Straits Settlements.

Dr. Frank N. Blanchard, University of Michigan, Ann Arbor, Michigan, U.S.A.

Prof. Antonio Berlese, 19, Via Romana, Firenze, Italy.

Capt. P. Jeffs, Basse, River Gambia, West Africa.

Capt. W. B. Stanley, Postal Freetown, Sierra Leone, West Africa.

Prof. A. G. Ruthven, University of Michigan, Ann Arbor, Michigan, U.S.A.

9. NEW CORRESPONDING MEMBERS (*Division II., Professional Zoologists*).—The following were elected :—Miss Eleanor M. Brown, B.Sc. ; Frederic J. Brown, Esq. ; Lionel F. Cowley, Esq. ; Alfred W. M. Hughes, Esq. ; Geoffrey Lapage, Esq., M.B., Ch.B., M.Sc. ; Owain W. Richards, Esq., M.A. ; Miss Ethelwynn Trewavas, B.Sc.

10. EX-ENEMY CORRESPONDING MEMBERS.—During the war the names of Corresponding Members belonging to Nations then at war with this country were removed from the List in accordance with By-Law, Chapter VII, Section 4. As stated in the Annual Report for 1926 (par. 7), the Council decided in principle that the time had now come when members so removed might be restored to the List in accordance with the By-law, as vacancies occur, on their application to the Council. In accordance with this decision, the following names have been restored to the List :—

Dr. Gustav Brandes (Director, Dresden Zoological Gardens).

Dr. Ludwig Heck (Director, Berlin Zoological Gardens).

Dr. Geza Horváth (National Museum, Budapest).

Prof. Franz Vejdovsky (University of Prague).

Dr. Ludwig Lorenz Liburnau (Natural History Museum, Vienna).

11. LIST OF FELLOWS AND MEMBERS.—A revised edition will be published during the Summer of 1929. Any corrections should be sent to the Secretary before April 30th, 1929.

12. SCIENTIFIC GRANTS.—The Council made a donation of £10 to the National Trust towards the preservation of Wicken Fen, of £25 to the Society for the Protection of the European Bison, and of £2 to the British Correlating Committee for the Protection of Nature. A donation of £100 was promised to a Committee for the Exploration of the Great Barrier Reef; half was paid in 1928 and half is to be paid in 1929.

13. LOAN OF THE SOCIETY'S ROOMS.—The Society's Rooms have been lent to a General Meeting of British Zoologists, The British Ornithologists' Union, The Avicultural Society, and the Society for the Protection of the Fauna of the Empire, to which also clerical assistance and office accommodation have been given.

14. THE FAUNA SOCIETY.—The Council commend the Society for the Protection of the Fauna of the Empire, mentioned in the last paragraph, to the notice of Fellows. There are few parts of the world in which modern fire-arms, modern facilities for travel, the spread of civilization and the extension of agriculture are not restricting the numbers and bringing danger even to the existence of wild animals. The objects of the Fauna Society are to collect information on, and to stimulate interest in, the preservation of wild animals, directly in the British Empire and by co-operation with similar Societies, in other countries. It pays special attention to the formation and maintenance of Reserves and Sanctuaries for Wild Animals. Fellows of the Zoological Society are invited to become members of the Fauna Society and so to extend its activities. The annual subscription is 10s. a year, and applications should be addressed to the Secretary of the Fauna Society, c/o The Zoological Society.

15. SCIENTIFIC MEETINGS AND PUBLICATIONS.—The *Abstract* was issued as usual. The *Transactions*, suspended during the war, have been resumed, the Council having given the Publication Committee power to re-open them for memoirs deemed of unusual scientific value, and requiring *quarto* illustrations. Volume XXI, of which the first and only issued Part appeared in 1916, has been left open to be completed as suitable memoirs may be accepted. Volume XXII is being devoted to a series of memoirs dealing with the zoological results of the Cambridge Expedition to the Suez Canal, 1924. Of this, Part I was published on December 15th, 1926; Part II on March 15th, 1927; Part III on July 1st, and Part IV on December 30th, 1927; Part V on June 30th, 1928; Part VI on January 28th, 1929.

Of the *Proceedings*, Part I, 1928, was issued on April 16th, 1928; Part II on July 18th, 1928; Part III on September 18th, 1928; and Part IV on January 31st, 1929.

The Council decided, at the request of the Publication Committee, to issue future volumes of the *Proceedings*

beginning with 1929, in a larger size, to provide better for illustrations, and to make the volumes of the same format as those of many other scientific Societies.

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

		Plates.		Pages.
1919	..	23	..	499
1920	..	19	..	656
1921	..	35	..	887
1922	..	57	..	1276
1923	..	15	..	1097
1924	..	68	..	1176
1925	..	51	..	1585
1926	..	65	..	1314
1927	..	59	..	1009
1928	..	54	..	1044

16. ZOOLOGICAL RECORD.—The complete Volume, No. 64, dealing principally with the literature of 1927, was published on November 15th, 1928. It contains an Appendix with a List of Abbreviations with Titles of Periodical Publications containing papers dealing with matters of Zoological importance. The List was compiled by the Editor of the *Record*, with the kind assistance of Dr. S. A. Neave, at the end of 1927. The abbreviations are on the system devised in The World List of Scientific Periodicals, but are arranged in their own alphabetical order, not that of the Periodicals. The chief libraries in London containing the Periodicals are indicated by symbols following each entry. This List was published separately on February 17th, 1928, to be in time for the use of the Recorders of the separate Divisions. Of the latter, Echinoderma and Mollusca were published on June 8th, 1928; Insecta on July 23rd; Porifera, Vermes and Protochordata on July 25th; Brachipoda and Bryozoa

on August 1st; Mammalia on August 16th; Aves on September 9th; Crustacea on September 22nd; Comprehensive Zoology, Protozoa, Pisces and Reptilia and Amphibia on October 5th; Cœlenterata and Arachnida on October 11th; and the List of New Genera and Sub-Genera on October 14th, 1928.

Volume 65, dealing with the literature of 1928, is in active preparation.

17. ZOOLOGICAL RECORD: PRICES.—On account of the greatly increased cost of production it has been found necessary to fix the price of the Annual Volumes, from Volume 58 onwards, at £3 (or Subscription price, paid in advance, £2 10s.). As it is recognised that many individual workers do not require the whole volume, it has been arranged to sell the separate Divisions, in paper covers, at the following prices:—

SEPARATE DIVISIONS.

	s.	d.
General Zoology	3	0
Protozoa	3	0
Porifera or Spongida	2	6
Cœlenterata	2	6
Echinoderma	4	0
Vermes	3	6
Brachiopoda and Bryozoa	2	6
Mollusca	5	0
Crustacea	3	0
Trilobita, Arachnida, Myriopoda	4	0
*Insecta	15	0
(a) Titles and Subject Index	4	0
(b) Coleoptera	6	0
(c) Lepidoptera	6	0
(d) Hymenoptera and Diptera	4	0
(e) Hemiptera, Orthoptera, and re- maining Orders	4	0
Protochordata	2	0

* This Part and its Sub-sections are now published only by the Imperial Bureau of Entomology, 41, Queen's Gate, S.W.7.

	s.	d.
Pisces	3	6
Reptilia and Amphibia	3	0
Aves	7	6
Mammalia	3	0
List of Abbreviations and Journals ..	2	6
List of New Genera	2	6

18. ZOOLOGICAL RECORD ; FINANCE.—Beginning with Volume 59 (literature of 1922), the Society undertook to continue responsibility for the *Record* if its loss on each volume did not exceed the sum of £500. In response to an appeal, several Societies, Institutions and individuals interested in the continuation of the *Record* agreed to assist. Some made donations, and others, in accordance with what, at the time, was thought a useful form of support, “guaranteed” certain sums towards the loss on volumes. Experience has shewn, however, that a “guarantee” is a difficult form of support, as only an arbitrary date can be chosen for estimating the liability under the guarantee for any volume. Moreover, as was explained in the Annual Report for 1925, p. 11, the compilation and therefore the liability must be undertaken sometime before the volume can appear, and the receipts come in a considerable time after its publication.

It has been arranged, for the information of donors, to keep accounts of the *Record*, beginning with Vol. 59 (the first to which extraneous financial assistance was given), in the form of a “Zoological Record Fund” made up to the 31st of December each year. To this will be credited all receipts (subscriptions and sales of the current Volume and of other Volumes from 59 onwards) taken within the year, including the Society’s own contribution of £500. From it will be deducted the cost of compilation (Editor, Recorders, Searchers and other expenses) and printers’ bills. It is hoped that the Record Fund will eventually show a balance sufficient to cover the cost of an annual issue, thus providing “capital” for the concern. Societies, Institutions and individuals who wish the *Record* to be maintained, are requested to give

their support in the form of annual donations to the "Record Fund." It will be seen that because of a smaller number of contributions, and because of the increased size and cost of the volume, the Record Fund is now reduced from last year.

STATE OF "RECORD FUND" AT 31st DECEMBER, 1928.

	£	s.	d.	£	s.	d.
Balance from Vol. 63 (Annual Report, 1927, page 14)				1,111	11	10
Donations to Vol. 61 received in 1928 ...				10	0	0
" " 62 " " 				210	0	0
" " 63 " " 				110	9	7
				<u>1,442</u>	<u>1</u>	<u>5</u>
Donations to Vol. 64 received :—						
Zoological Society of London	500	0	0			
American Ornithologists' Union	10	4	8			
Barbour, Dr. T. (£25 received in 1927) ...						
British Ornithologists' Club	11	5	0			
British Ornithologists' Union	11	5	0			
Rathburn, Miss W. J.		19	8			
Schmidt, W. L.	1	0	0			
Shoemaker, C. R.	1	0	0			
				<u>535</u>	<u>14</u>	<u>4</u>
				<u>1,977</u>	<u>15</u>	<u>9</u>
Cost of Vol. 64 (exclusive of Office Expenses) :—						
Letterpress	1,302	5	9			
Editor	200	0	0			
Recorders	245	0	0			
Searching and Assisting Recorders ...	150	6	9			
Distribution	29	1	3			
Recorders' Slips	13	13	9			
				<u>1,940</u>	<u>7</u>	<u>6</u>
Subscriptions to Vol. 64 to Dec. 31st £374 18 7						
Sales of Vol. 64	205	18	8			
				<u>580</u>	<u>17</u>	<u>3</u>
Loss on Vol. 64	1,359	10	3			
				<u>1,359</u>	<u>10</u>	<u>3</u>
					<u>618</u>	<u>5</u>
					<u>5</u>	<u>6</u>
Add amount received for subscriptions to, and sale of Vols. 59 to 63, since last adjustment						
					319	4
					<u>5</u>	<u>5</u>
Balance of Fund to Vol. 65				<u>£937</u>	<u>9</u>	<u>11</u>

The full list of Donations since the inception of the "Record Fund" to December 31st, 1928, is as follows:—

	Vol. 59.	Vol. 60.	Vol. 61.	Vol. 62.	Vol. 63.	Vol. 64.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Acad. Nat. Sci., Philadelphia ...	23 0 4	30 15 9	20 6 4	22 8 3	...	...
American Entomological Society ...	...	...	10 5 5	...	...	...
American Ornithologists' Union ...	11 7 6	15 8 11	...	10 3 8	10 4 7	10 4 8
Association of Economic Biologists ...	5 0 0	5 5 0	...	...	5 0 0	...
Barbour, Dr. T. (Mus. Comp. Zool., Camb., Mass.)...	25 0 0	50 0 0	25 0 0	25 0 0	25 0 0	25 0 0
British Association ...	50 0 0	50 0 0	35 0 0	50 0 0	50 0 0	...
British Museum of Nat. Hist. ...	200 0 0	200 0 0	200 0 0	200 0 0	...	...
British Ornithologists' Club ...	11 5 0	11 5 0	11 5 0	11 5 0	11 5 0	11 5 0
British Ornithologists' Union ...	11 5 0	11 5 0	11 5 0	11 5 0	11 5 0	11 5 0
Brooklyn Entomological Society, New York ...	...	5 0 0	...	...	...	...
California Academy of Sciences ...	...	21 11 0	...	...	...	...
Challenger Society ...	5 5 0	5 5 0	5 5 0	5 5 0	5 5 0	...
Cockerell, T. D. A. ...	...	...	3 0 0	1 12 0	...	...
Conchological Society ...	2 2 0	2 2 0	2 2 0	...	...	...
Entomological Society ...	50 0 0	25 0 0	25 0 0	...	25 0 0	...
Entomological Society of America ...	16 0 0	...	...	...	...	...
Geological Society ...	...	15 0 0	15 0 0	...	...	...
Hawaiian Entomological Society ...	7 6 0	6 3 2	5 13 9	...	...	...
Henshaw, S. (Mus. Comp. Zool., Camb., Mass.) ...	10 0 0	7 8 11	10 0 0	...	...	...
Hornvold, Dr. A. G. ...	5 0 0	4 18 0	5 0 0	5 0 0	...	...
Linnean Society ...	25 0 0	25 0 0	25 0 0	...	...	...
Linnean Society of New South Wales ...	10 0 0	10 0 0	10 0 0	10 0 0	...	...
Liverpool School of Tropical Medicine ...	10 10 0	5 5 0	5 5 0	...	...	...
McIntosh, Dr. W. C. ...	8 8 0	5 5 0	...	...	...	...
Malacological Society ...	5 0 0	3 3 0	...	...	...	...
Marine Biological Association, Plymouth ...	5 5 0	5 5 0	5 5 0	5 5 0	...	...
Michigan, University of ...	20 14 8	20 6 4	...	...	...	...
Quekett Microscopical Club ...	5 5 0	5 5 0	5 5 0	...	...	...
Rathburn, Miss A. J. ...	...	...	...	...	1 8 1	19 8
Royal Canadian Institute ...	5 13 8	5 2 5	...	...	...	...
Royal Microscopical Society, Fellows of ...	...	3 0 0	...	...	...	...
Royal Society ...	100 0 0	...	...	...	...	...
Royal Society of Trop. Med. and Hygiene ...	20 0 0	20 0 0	5 0 0	5 0 0	5 0 0	...
Schmidt, W. L. ...	...	...	...	1 15 1	17 5	1 0 0
Seaman's Hospital Society ...	20 0 0	20 0 0	...	...	...	...
Shoemaker, C. R. ...	...	...	...	...	17 4	1 0 0
South African Biological Society ...	...	5 5 0	5 2 6	...	...	...
Van Name, Dr. W. G. ...	...	5 3 1	...	...	...	...
Wellcome Bureau of Scientific Research ...	15 0 0	15 0 0	15 0 0	15 0 0	15 0 0	...
Zoological Society of London ...	500 0 0	500 0 0	500 0 0	500 0 0	500 0 0	500 0 0
	1,183 7 2	1,119 7 7	960 0 0	878 19 0	666 2 5	560 14 4

19. GARDEN GUIDE AND PICTURE POST CARDS.—The twenty-fifth edition of the Garden Guide was issued in 1928, and in the course of the year 79,619 copies were sold. On account of unexpectedly heavy sales the 25th edition was sold out before the end of the year and a new edition was prepared and issued. Arrangements have been made to keep the type standing during 1929. Since 1904, when the Guide became the property of the Society, 1,336,096 copies have been sold. Of the Aquarium Guide 3,759 copies, and of picture post-cards 319,973 were sold in 1928.

20. 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.
- 1919. California Academy of Sciences, San Francisco, U.S.A.
- 1920. The Straits Branch of the Royal Asiatic Society.
Naturhistorisches Staatsmuseum, Vienna.
- 1921. The Philippine Journal of Science, Manila.
- 1922. Musée Zoologique de l'Université et de la Ville, Strasbourg.
- 1923. L'Institut Océanographique, Monaco.
- 1924. The Science Society of China, Nanking.
Deutscher naturwissenschaftlich.-med. Verein für Böhmen.
Société des Sciences Naturelles du Maroc.
Société Neuchateloise des Sciences Naturelles.
Royal Society of South Australia.

1925. L'Académie Polonaise des Sciences et des Lettres, Cracow, Poland.
La Société des Naturalistes de Leningrad, Leningrad, Russia.
Imperial College of Tropical Agriculture, Trinidad.
1926. No addition.
1927. No addition.
1928. Academie des Sciences de l'Ukraine, Kiew, U.S.S.C.
Johns Hopkins Institute for Biological Research, Baltimore, U.S.A.

21. LIBRARY.—The Visitor's Book was signed by 475 Fellows and persons introduced by them, and 1,237 volumes were borrowed under the usual regulations.

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

PRESENTED.

<i>Donor.</i>	<i>Donation.</i>
BEVAN, COSMO, F.Z.S.	The Gardens and Menagerie of the Zoological Society Delineated. 1830.
BRITISH MUSEUM, Trustees of	Index Animalium. Sectio Secunda. Parts xiii, xiv, xv, xvi. By C. Davies Sherborn, F.Z.S. 1928. Insects of Samoa. Parts I—VII. By Edward Meyrick, F.R.S., F.Z.S. 1928. Terra Nova Reports. Zoology. Vol. VII. No. 2. 1928. New Zealand Empididæ. By J. E. Collin. 1928. Guide to the Arachnida, Millipedes and Centipedes. 1928. Economic Series. No. Ia. The House-fly. 3rd edn. 1928. Catalogue of Fossil Cirripedia, Vol. I. By T. H. Withers, F.Z.S. 1928. On a Specimen of <i>Elephas antiquus</i> from Upnor. By C. W. Andrews and C. F. Cooper. 1928. Diptera Brachycera and Athericera of the Fiji Islands. By Mario Bezzi. 1928.

- | <i>Donor.</i> | <i>Donation.</i> |
|--|--|
| BRITISH MUSEUM,
Trustees of | Catalogue of the Mesozoic Mammalia.
By G. G. Simpson. 1928.
Rhodesian Man and Associated Re-
mains. By W. P. Pycraft, G.
Elliot Smith, and Others. 1928.
Catalogue of the Pontian Bovidae of
Europe in the Department of
Geology. By G. E. Pilgrim and
A. T. Hopwood. 1928. |
| DAGLISH, FITCH,
F.Z.S. | Birds in England. By E. M. Nichol-
son. 1926. |
| FINN, FRANK,
B.A., F.Z.S. | Talks about Birds. By F. Finn. 1911.
Tom, My Peacock. By Frances Pitt.
1928.
Wonders of Animal Life. Edited by
J. A. Hammerton. 1928. |
| FLOWER, MAJOR S. S.,
O.B.E., F.Z.S. | On the Poison of Venomous Snakes
and the Methods of Preventing
Death from their Bite. By J.
Fayrer, L. Brunton and L. Rogers.
1909.
The Horse: a Study in Natural His-
tory. By W. H. Flower. 1891. |
| HADFIELD, SIR
ROBERT, BT., F.R.S. | Fossil Lizards of North America.
By C. W. Gilmore. 1928. |
| HASERICK, ARTHUR
A., F.Z.S. | Birds of the Pacific States. By R.
Hoffman. 1927. |
| HOSE, CHARLES,
F.Z.S. | Fifty Years of Romance and Research,
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Biological Abstracts.

Das Aquarium.

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By H. Kirk Swann and Dr. Alex. Wetmore.

Physiological Zoology.

22. CARD CATALOGUE.—The Librarian and his Assistant have made further progress with the Subject Card Index of the Works in the Society's Library. The Cards for the Geographical (Zoological) Card Index have been completed, and several sections are now available for reference.

23. PROSECTORIUM.—This Department continues to do great service to the Society, directly by enquiries into the causes of death of animals in the collection, and indirectly by increasing knowledge in Anatomy, Pathology and Parasitology. Anatomical and pathological material has been distributed to many private workers and institutions.

24. PATHOLOGY—CHANGE OF PATHOLOGIST.—To the great loss of the Society, Dr. H. H. Scott, M.D., F.R.C.P., who had been Pathologist to the Society since January 1st, 1925, under an arrangement by which his Fellowship was financed jointly by the Society and the London School of Hygiene and Tropical Medicine, resigned his post on May 31st, on his appointment to an important position under the Secretary of State for the Colonies. During his tenure of Office Dr. Scott gave valuable advice on the health and causes of disease of animals in the Collection, and made contributions to knowledge of comparative pathology by a series of investigations. The Council, on the advice of the Prosectorial Committee, arranged that in future the Pathologist should be entirely an officer of the Society, as although the assistance of the London School of Hygiene and Tropical Medicine had been of very great service, it seemed probable that as the work of that Institution progressed, the time of members of their staff would be fully occupied. After considering several candidates, the Council appointed Lt.-Colonel A. E. Hamerton, C.M.G., D.S.O., late R.A.M.C., as Pathologist to the Society. Dr. Zuckerman very kindly undertook the pathological work in the interim. Colonel Hamerton took up the duties of his post at the beginning of November, and has already done much useful work.

25. PATHOLOGICAL REPORT.—Col. Hamerton reports :—

“ The number of cases examined in the Prosectorium during the year was 1,195—of these 289 were Mammalian, 634 Avian and 272 Reptilian.

“ The total is 158 in excess of the number of examinations made up to the last quarter of 1927, and represents the highest number of autopsies recorded during the last three years.

“ 540 or 45·1 per cent. of the total deaths recorded occurred within six months of arrival in the Gardens. The mortality, as usual, was highest amongst birds, and is 53·07 per cent. of the total deaths recorded.

“ The ‘ average strength ’ of the Society’s Collection (excluding Aquarium and Insect Houses) for 1928 is estimated at 4,003·33, and on this estimate the ratio of deaths for the year is 29·8 per cent.

“ The deaths in mammals were 11 in excess of 1927, and in birds 160; but in reptiles, there were 13 fewer deaths in 1928 than in the preceding year.

“ There has been no outbreak of epidemic disease.

“ The increase in the deaths among mammals and birds is accounted for by the increase of the Collection, which was made practicable by the opening up of new buildings and extending the outdoor accommodation.

“ The general and progressive improvement in the health of the menagerie as a whole has been maintained.

“ The following remarks concerning important prevailing diseases may be of interest :—

“ 1. *Tuberculosis*.—An increase of 33 cases over the number recorded for 1927. The increase is, in part, due to the policy of weeding out and destroying animals affected with this disease as soon as the condition can be definitely diagnosed during life, and when the possibility of recovery is considered remote.

“ The three Orang-utans, ‘ Micky,’ ‘ Marcus ’ and ‘ Nellie,’ who died within 9 months of their arrival in the Gardens, almost certainly contracted the disease before they came to London, and the same assumption applies to two cases of tuberculosis in Cercopithecus Monkeys that died about 3 months after their arrival in the Gardens. A simple test for tuberculosis in Apes and Monkeys is at present on trial.

“ 2. *Enteritis*.—This disease is especially prevalent amongst new arrivals, and the advent of substantial additions to the Collection during 1928 has considerably increased the number of cases recorded.

“ Mr. Reginald Lovell, M.Sc., M.R.C.V.S., D.V.S.M., of the London School of Hygiene and Tropical Medicine, has continued during the year his researches in the bacteriology of this disease, and has obtained results of considerable academic interest, and of practical utility in that they have indicated the preventive measures required.

“ 3. *Pulmonary Diseases*.—Pneumonia and capillary bronchitis have taken a heavy toll in deaths during the year. The incident was highest during the long spell of cold damp foggy weather in November and December, and new arrivals, especially small birds and reptiles, suffered most.

“ 4. *Mycosis*.—The number of cases is 22 in excess of that recorded for 1927, but is less than might be expected, considering the increase in the Collection of birds in which most of the cases occur.

“ In birds the disease usually invades the body through the respiratory system whence it spreads to the thoracic and abdominal viscera, the tissue cells being strangled and replaced by a tangle of mould threads and spores. The onset of the disease is insidious and produces no symptoms in its early stages, and therefore early segregation of the infected is not practicable. In reptiles, however, the disease usually commences as a recognisable cutaneous lesion which in certain cases can be cured by treatment.

“ 5. *Rickets and Allied Bone Defects*.—A small increase in the number of deaths is mainly accounted for by the weeding out and destruction of inbred animals and birds that have been born in the Gardens, and become affected with grave bone disease. In the case of valuable animals the disease is treated by special antirachitic diet and artificial sunlight. Such treatment appears to have been beneficial in at least one instance.

“ 6. Subjects of special pathological interest will be dealt with in a further Annual Report. They may, however, be mentioned briefly as follows :—

“ (1) *Diseases of the Heart and Cardio-Vascular System* number 50 and include 9 cases of endocarditis, in 3 of which the valves of the heart were affected ; 4 cases of myocarditis, and 3 of rupture of the heart. 6 cases of pericarditis are not included.

“ (2) *New Growths*.—Cases of Neoplastic disease have been fewer than in 1927. They include 7 cases of malignant growth in mammals, 2 in birds and 1 in a reptile.

“ Applications for material for research from investigators in London and the Provinces have been met as heretofore, and valuable information has been given in return.”

26. ANATOMY. — Dr. Zuckerman, the Society's Anatomist, reports :—

“ Research work has been carried out on the following subjects :—

“ 1. The Spinal-Accessory Nerve in certain Ungulates.

“ 2. A case of Placenta Prævia in a Rhesus Macaque.

“ 3. The association of Anthracosis and Acid-fast Bacilli in the lungs of Birds.

“ 4. Times of eruption of the teeth in the Chimpanzee.

“ 5. The relationships between Body-weight, Brain-weight, and Cranial Capacity in Mammals.

“ A demonstration of specimens of animals preserved by a trade process involving the use of paraffin was made at a Scientific Meeting of the Society on the 20th November, 1928.

“ During the year Anatomical material was prepared and sent to numerous Institutions and private workers.”

27. HELMINTHOLOGY.—Professor R. T. Leiper, F.R.S., reports :—“ The animals dying in the Gardens during the past year, with the exception of rare specimens reserved by the Anatomist for morphological studies, have been examined for parasitic entozoa. The material collected has been identified and reported upon periodically to the

Prosectorial Committee. The collection and identifications have been undertaken by a panel of parasitologists formed by the staff and associated workers of the Helminthological Department of the London School of Hygiene and Tropical Medicine. The following have participated in the scheme:—
Mr. J. J. C. Buckley, M.Sc., Dr. T. W. M. Cameron, M.R.C.V.S., D.Sc., Professor J. E. Guberlet, M.A., Ph.D., Professor R. T. Leiper, F.R.S., Miss J. Leishman, B.Sc., Mr. R. Lovell, M.R.C.V.S., M.Sc., Dr. D. Robertson, Ph.D.”

28. SANATORIUM.—This was refitted in 1922 as a quarantine station and a hospital for the treatment of sick animals. It is in charge of Dr. G. M. Vevers, the Superintendent of the Gardens, who receives valuable advice from Professor G. H. Wooldridge, F.Z.S., Honorary Consulting Veterinary Surgeon to the Society, and from the Curators.

29. VISITORS TO THE GARDENS.—The total number of visitors to the Gardens in 1928 was 2,225,662, the largest in the history of the Society. The following Tables give comparative figures:—

Visitors to the Gardens.

1919 .	1,515,042	1924 .	2,057,146
1920 .	1,590,642	1925 .	1,823,613
1921 .	1,386,745	1926 .	1,937,935
1922 .	1,427,849	1927 .	2,158,208
1923 .	1,613,125	1928 .	2,225,662

Visitors on Bank Holidays.

	1927.	1928.
Easter Monday	70,674	89,218
Whit Monday	49,822	49,725
First Monday in August ..	32,248	42,165
Boxing Day	439*	1,340

* There was a severe snowstorm on this day.

Visitors on Sundays and Week-days.

	1927.	1928.
Sundays	221,102	228,093
Week-days	1,937,106	1,997,569

30. 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 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. Honorary, Foreign and Corresponding Members have personal admission only.

Fellows' Tickets.—Until further notice, Fellows, unless they have exercised the option stated in the next sentence, receive each year 40 undated green cards, available on any Sunday or weekday up to the end of January of the year following the year of issue, and also available for the Aquarium, and 20 white cards available on any weekday up to the same date. For 20 green tickets, however, they may receive a book of dated Sunday orders, each admitting two persons, but valid only for the actual days printed on them, and in exchange for twenty white tickets, a similar book of weekday orders, each valid only for the week printed on it.

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. 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.

Excursion Party Rates.—Excursion Tickets for parties of not less than 25 persons for any fixed date (except Sunday) may be obtained upon previous application at the rates given below. Should the date chosen for the visit to the Gardens be found unsuitable, the tickets, upon being returned, will be re-dated for another day during the year of issue.

Payment for admission at the reduced prices cannot be accepted at the turnstiles.

All inquiries regarding reduced terms of admission should be made at the Secretary's Office.

ADULTS.	CHILDREN UNDER 14 YEARS OF AGE.
25 to 100 @ 11d. each.	25 to 100 @ 5d. each.
101 to 200 @ 10d. each.	101 & upwards @ 4d. each.
201 to 300 @ 9d. each.	
301 & upwards @ 8d. each.	

Where parties consist of adults and children the total number of the party is taken to decide the rate for each class.

Elementary Schools.—*Cheap Orders* for the admission from 9 a.m. to 1 p.m. of Children from Elementary Council Schools on Tuesday, Wednesday, Thursday or Friday (except during Easter and Whitsun weeks) may be obtained for parties of not less than 25 Children and one Teacher at the rate of one penny each child and fivepence for each Teacher. There must be at least one Teacher to every 25 children. The Children, with their Teachers, must be out of the Gardens by 1 p.m. School orders admitting to the Aquarium on Tuesdays only between 9 a.m. and 11 a.m. are issued at the same price.

31. VISITORS TO THE AQUARIUM.—The total number in 1928 was 444,177, as compared with 458,936 in 1927.

Visitors to the Aquarium.

	1927.	1928.
Sundays	46,511	43,497
Weekdays	412,425	400,680
Easter Monday	6,957	7,645
Whit Monday	5,492	4,715
August Bank Holiday	4,846	4,253
Boxing Day	129*	340

* There was a severe snowstorm on this day.

32. AQUARIUM: RULES FOR ADMISSION.—Experience continues to show that some restrictions on admission to the Aquarium are necessary, apart from finance, to prevent the crowded state from spoiling the pleasure of visitors. Since 1925, when Fellows were allowed to take two visitors with them on Sundays, the proportion of Sunday to Week-day visitors has been greater than in the year of opening. If all visitors to the Gardens on Sundays were also admitted to the Aquarium, the Fellows' day would be spoiled. Fellows are to retain their privilege of taking two visitors personally with them on Sundays, but if they desire to admit or to send others, they must provide them with additional green tickets or purchase tickets from the Office in advance for them. The Council arranged that from January 1st, 1929, a green ticket may be used for admission to the Aquarium. On Sundays, Fellows, therefore, by providing each friend with two green tickets secure for them admission both to the Gardens and the Aquarium.

The rules for admission to the Aquarium are therefore as follows:—

On Sundays, admission is restricted to Fellows who come in person and two friends whom they may take in with them, and to persons to whom they have given extra green tickets or for whom they have purchased Aquarium tickets in advance at 1s. each, but Fellows are requested to use this privilege sparingly.

Fellows may also purchase Aquarium ivory tickets for the sum of £10, valid for the duration of the Fellowship, and admitting two persons to the Aquarium on any day, Sunday or Week-day.

On Week-days Fellows have free personal admission; all others must be provided with Aquarium tickets or pay at the Aquarium turnstile 1s. each for adults, and 6d. each for children under 12, except on Mondays, not Bank Holidays, when the price will be 6d. for everyone. On Bank Holidays the price for adults is 1s. each and for children under 12, 6d. each.

33. AQUARIUM EXHIBITS.—The exhibits have been more numerous and varied than in any year since the opening of the institution. Numerous additions have been made to the Collection, including a number of brilliantly coloured tropical and semi-tropical specimens. Several consignments were received from Madeira, travelling in the permanent tank on board the Union Castle Mail Steamship Company's R.M.S. "Windsor Castle," built in 1927, in which the water can be circulated and kept at a uniform temperature.

A collection from the coast of Bermuda, presented by the Bermuda Aquarium, was received in June, and was brought back in a similar tank erected last year on board the s.s. "Changuinola," by kind permission of the owners, Messrs. Elders and Fyffes.

34. AQUARIUM RESEARCH.—Miss E. M. Brown, B.Sc., the Society's Aquarium Research Fellow, reports:—

"As a result of post mortem examinations of fish and invertebrates, a small collection of parasites has been made and a new species of Monogenetic Trematode was obtained. A description of this species of *Microcotyle*, together with a brief account of the genus and family, has cleared up some doubtful points in the general anatomy of the group and confirmed some of the older work. (P.Z.S., 1929, Pt. 1.)

"Material is available for the further study of Monogenetic Trematodes of the group *Octocotylidæ*.

“ Observations have been made on variations in temperature, pH and salinity of the Aquarium sea-water circulation, and particular attention has been paid to the ‘alkaline reserve’ and its relations with the pH and CO₂ pressure of the water as these factors seem to be of paramount importance to the well-being of the animals, particularly the invertebrates. Determinations of this nature, together with estimations of oxygen, were carried out in the summer at the Marine Biological Laboratory at Plymouth, both on open sea-water and on water in use in the Plymouth Aquarium. These completed results, together with a discussion of their significance will, it is hoped, be submitted to the Society early this year.

“ When the sea-water is renewed, samples are sent to the Laboratory before the main consignment reaches the Aquarium, in order to ensure that the new sea-water is satisfactory in every way.

“ Preliminary experiments on the keeping of sea urchins under aquarium conditions have been carried out, and work with these and other invertebrates will be continued during the present year, with special reference to the effects on them of the pH, ‘alkaline reserve’ and oxygen content of the water.”

35. INSECT HOUSE.—During the year the Insect House, under the care of Mr. L. C. Bushby, has well maintained its interest to visitors to the Gardens. Representatives of many orders, not only of the Insecta, but of the Arachnida, Crustacea and Myriopoda also, have been exhibited. Interesting species from north African regions such as Algeria, Tunisia, etc., have been shown and have been found to do well in captivity. Gambian Land Crabs, Wood Ants and the observation bee-hive have been great attractions, as have also the large and beautiful wild silk moths from America, China, India, etc. The remarkably good season for British lepidoptera generally enabled large numbers of many showy species of butterflies to be exhibited in the outdoor Butterfly House during the summer and early autumn.

36. **MEDICAL ATTENDANCE AT THE GARDENS.**—With over 2,000,000 visitors to the Gardens every year and with a numerous staff, illness and accidents requiring "first-aid" assistance inevitably take place. There is a well-equipped Red Cross Room attached to the Prosectorium to which cases are taken. On week-days from 10 until 5 and on Saturdays from 10 until 1, the Anatomist, Dr. S. Zuckerman, who is a qualified medical man, gives first-aid, and Colonel Hamerton, the Pathologist, is always willing to give his advice. On Saturdays and Sundays, after 1 p.m., and all day on Bank Holidays, Dr. J. R. McDonnell, who lives at a few minutes distance from the Gardens, is retained by the Council to be at telephone call. Dr. Vevers, the Superintendent, who also is a medical man, and Mr. Hicks, the Superintendent's Assistant, who is highly trained in first aid, are never both away from the Gardens, and the Prosectorial Assistant is also skilled in first-aid dressing.

37. **GARDENS STAFF.**—There has been no change of importance during the year.

38. **GARDENERS' DEPARTMENT.**—The Gardening Staff, under the supervision of Mr. W. Wall, Head Gardener, aided by the exceptionally fine Spring and Summer, succeeded in eclipsing all previous years in producing a wonderful succession of colour from April well into November. In addition, many new trees and flowering shrubs were planted. All the aviaries were returfed in the early Spring. The Society has again to thank the President for another gift of five thousand daffodil bulbs which have been planted on the North Bank of the Canal.

39. **SPECIAL WORKS.**—The programme of works for 1928, described in Paragraph 41, p. 36, of the Council's Report for 1927, was completed. The new Main Gate, with its additional turnstiles, entrance court and lavatories, was completed in June. The open-air Reptiliary was completed and planted in September. The enlargement of the Hippopotamus House by the provision of three additional sleeping-dens, was also completed, so that there is now room when these animals breed. The old Small

Birds' House was converted into a Tortoise House with adequate outside paddocks for use in summer, and sufficient space, heating and lighting, for the reptiles in winter. Heated tanks for terrapins and other aquatic tortoises were provided. The new conditions proved as efficient or flies as for tortoises, but steps have been taken to subdue this plague. The path between the Reptile House and the Ostrich House was widened and a large area of the paths in the South Garden was made up with tarmacadam. In continuation of the scheme to replace defective old main drains, a sum of £500 was expended on relaying them. The old oak Boundary Fence in the Outer Circle and along the Albert Road has been replaced by an iron fence, the Society paying to H.M. Office of Works the additional cost of making the fence high enough to suit our requirements. The privet hedge planted within the iron fences has much improved the appearance of the boundary of the Gardens. The transformation of the Exhibition House near the Monkey Hill into a Tapir House was completed early in June.

40. ORDINARY WORKS EXECUTED DURING 1928.—The Superintendent reports on the ordinary works carried out during the year:—

“*Lion House*.—The sleeping dens, show cages in the interior of the house, and service passage were limewashed and painted. All the outside cages were painted. One of the outside cages was entirely re-floored, and the verandah and sleeping den at the back were entirely reconstructed. A large tree with a *machan* or platform was erected in the centre of the cage. It is proposed to make similar alterations to the other cages.

“*Monkey Hill*.—The inside dens of the Monkey Hill were cleaned, disinfected and limewashed.

“*Lemur House*.—This house, which was formerly the Experimental Monkey House, was converted, in the early part of the year, into a house for the temporary reception of a family of Orangs. All three Orangs subsequently died and the house is now given up entirely to Lemurs.

“ *Ostrich and Cranes Paddocks.*—The fencing surrounding the paddocks on both sides of the Ostrich House was renewed entirely.

“ *Streatfeild Memorial Shelter.*—A shelter was erected opposite the outside aviaries of the new Bird House with a legacy of £300 left by the late Mr. F. H. T. Streatfeild, F.Z.S.

“ *Birds of Prey Aviaries.*—The roof of the outside Birds of Prey Aviaries was rewired throughout.

“ *Gulls Aviary.*—This aviary was entirely rewired and the iron framework painted.

“ *Deer Paddocks.*—All the Deer Paddocks on the East side of the Cattle Sheds were resurfaced with ballast and new drains were laid where necessary.

“ *Cattle Shed Paddocks.*—Reinforced concrete gates were fixed in all the partitions of these paddocks to replace the old wooden ones which were not strong enough to withstand the repeated attacks of some of the Bison and Buffalos.

“ *Mappin Terrace.*—Owing to the erection of the new Restaurant on the site of the old Llama Sheds, Takin Yard and Penguin Pond, provision had to be made elsewhere for the animals from these stations. The Llamas were removed, some to the Park Paddocks and some to the Antelope House. A new yard with rockwork was made on the lower level of the Mappin Terrace for the Takin, and the Penguins were transferred to the Mappin Terrace pond which was specially wired to receive them.

“ *Timekeeper's Office.*—The old Timekeeper's Office was also situated on the site of the new Restaurant and had to be removed to the Store Yard where a temporary office was erected.

“ *Conversion of Old Tortoise House into Tropical House.*—The Old Tortoise House, after the transference of the Tortoises to their new quarters, remained empty for several weeks. It was then cleared out and suitably prepared to receive the young Pigmy African Elephant and the small East African Rhinoceros.

“ *Waders' Aviary.*—This was entirely rewired.

“ *Tunnel Approach.*—The approach to the old tunnel on the north side was formerly very narrow and on busy days much congestion took place. On the side opposite the Tunnel Bar there was a high bank covered with ivy which was for many years a stronghold of rats. The ivy was stripped, the rats exterminated, and the retaining wall was set back about three feet.

“ *Curator of Insects.*—The old office at the end of the Curator’s House which for some time past has been used as a general store, was altered and put into good repair for the use of the Curator of Insects.

“ *Small Mammal House.*—Further accommodation for Squirrels was made in this house by putting extra partitions to all the outside cages.

“ *Painting.*—(a) Over 200 garden seats were repainted during the early part of the year.

“ (b) The Store Department was cleaned, painted and put in good repair.

“ (c) All the lavatories in the Gardens were cleaned and painted before Easter.

“ (d) The exterior of the Antelope House was painted.

“ (e) The interior and exterior of the new Tea Pavilion was painted.

“ (f) The Raccoons’ Cages were repaired and painted.

“ (g) The Civets’ Cages were painted and put in good repair.

“ (h) The interior and exterior of the Fellows’ Tea Pavilion was painted.

“ (i) The interiors of the Cheap Tea Pavilion and Mappin Terrace Pavilion were painted.

“ (j) The exterior of the Curator’s House was painted.

“ (k) The exterior of the Camel House and the Clock Tower were painted.

“ (l) The outside dens and service passage of the Wolves’ Dens were limewashed.

“ (m) The interior and all the cages in the Rodent House were painted.

“ (n) The Sanatorium was painted and decorated throughout.

“*Road Repairs.*—Road repairs were carried out at various places in the Gardens.

“*Carts.*—Two new carts were made for the carting of material and refuse in the Gardens.

“In addition to the above, a large number of items of maintenance and repairs have been carried out by the Works Staff of the Gardens under the supervision of Mr. W. Ball, Clerk of Works to the Society. Mr. Ball was also responsible for the building of the new Main Gate and Pergola, under the direction of the Architect, Mr. E. Guy Dawber, A.R.A.”

41. ELECTRICAL DEPARTMENT.—The installation of electric lighting and heating into the various houses in the Gardens is being continued. During the year the following houses were wired and connected:—

Tapir House.

New Tortoise House.

Prosectorium.

Sanatorium.

Curator's House.

Giraffe House.

Keeper's Lodge, and the adjoining House.

All the cooking in the new restaurant will be done by electricity, and, in view of this, a large cable has been laid to an intake room in the building. The work of installing the cooking plant and wiring the new restaurant has been carried out under the direction of Mr. H. P. Davolls, the Society's Head Electrician, who has also been responsible for the wiring of all the other houses in the Gardens.

42. SPECIAL WORKS FOR 1929.—The chief new work for 1929 is the new Restaurant, described in Paragraph 45, p. 38. In addition to the ordinary maintenance and improvement of the Houses, enclosures and paths, the replacement of the old drains, the surfacing of paths with tar-macadam and the laying out of paths and lawns near the new Restaurant will be carried out as early in the year as possible.

43. **BAND.**—The Band of the 65th (8th London) Field Brigade, Royal Artillery, has again been engaged for the season. It will play on Saturday and Sunday afternoons from May 25th, 1929, to August 31st, 1929, inclusive.

44. **REFRESHMENT DEPARTMENT.**—The Accounts have been audited, as usual, by Messrs. Edward Moore & Sons. The gross profits for 52 weeks to September 29th, 1928, amounted, after feeding the Staff, to £43,644 3s. 4d. The working expenses for the same period amounted to £18,467 15s. 8d., leaving a trading profit of £25,176 7s. 8d. After making the usual allowances for rent, depreciation, and licence duties, etc., 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 £19,005 5s. 8d. Of that amount, the sum of £205 5s. 8d. was allotted to repaying the Works Department for work carried out at the Refreshment Rooms. The balance of £18,800 has been carried forward, but out of this £3,760 must be reserved towards the payment of Income Tax, Schedule D. At the request of the Council, the Committee of Auditors appointed in January, 1928, 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.

45. **NEW RESTAURANT.**—An institution like the Gardens of the Society, which receives no support from the public funds, but has to depend on the subscriptions of Fellows and Gate-money, must consider not only the health, comfort and display of the animals which are its first object, but the convenience of visitors. The Council has long been aware that the accommodation at the old Refreshment Room building was insufficient to provide for the wants of Fellows and the public. Plans for a new Restaurant were prepared before the War, but conditions from 1914 onwards prevented carrying them out. Since the War, the new Tea Pavilion and the Popular Tea Pavilion have been built and various Tea and Light

Refreshment Bars have been constructed in different parts of the Gardens. It was decided early last summer that the great step of constructing a new Restaurant with accommodation for Fellows and for the public should be taken. The plans drawn up before the War were revised and brought up to date, as, for example, by substituting electric plant in the kitchens for the older modes of cooking. In order to prevent the very heavy cost of the new building absorbing for several years funds available for other improvements, a loan of £45,000 from the Society's Bankers was arranged, to be repaid as to principal and interest by an annual sinking fund of £5,000. The construction of the new Building was begun last autumn, and there seems no reason why it should not be completed and in use early this summer. The architect is Mr. J. J. Joass, the contractors are Messrs. Godson and Son, the General Electric Company is supplying the cooking installation, and the wiring is being done by the Society's Staff, under Mr. Davolls, the Society's electrician. The Restaurant will contain separate lunching, dining and tea accommodation, and also lavatories for Fellows and the public.

46. TRANSPORT OF ANIMALS. — As described in Paragraph 44 (p. 30) of the Report for last year, Council appointed a Committee to consider and report on methods of improving the conditions under which animals are transported. The Report, under the title:

“ HINTS ON THE TRANSPORT OF ANIMALS ;
Being Practical Advice on the Selection, Packing and Hygiene of Living Mammals, Birds, Reptiles, Amphibia and Fishes for Transport by Sea and Land ”

was published in the Proceedings of the Society, 1928, pp. 631-652. It has been reprinted as a pamphlet, copies of which can be obtained from the Society's Offices, at 6d. each. Presentation copies were given a very wide distribution to Societies, Institutions and persons concerned with living animals, and it is hoped that considerable improvements will be brought about in the conditions under which animals travel.

47. WHIPSNADÉ PARK.—As explained in the Council's Report last year, paragraph 45 (p. 41), Parliamentary powers were required for the transformation of the estate purchased by the Society at Whipnade into an Animal Park. The Bill promoted by the Society passed through both Houses of Parliament and received the Royal Assent on July 2, 1928, as The Zoological Society of London Act, 1928. In accordance with the Act, an alternative Right of Way round the eastern boundary of the Society's property has been opened, the Society acquiring a small strip of land to complete the connection with existing rights of way. The paths traversing the Park have accordingly been closed, and a boundary fence enclosing the whole property will be completed before this Report is issued. A contour survey of the property has been made from which accurate maps and a scale model have been made. Sites for entrance gates have been selected and the lines of the principal future avenues, paths and enclosures have been mapped out. A gravel pit has been opened and a staff of local men has been engaged on fencing, road-making, planting trees and shrubs and clearing out elder and getting the woods into order. A reservoir to hold 500,000 gallons of water has been constructed alongside the deep well sunk last year and pumping plant is being installed. Negotiations for a supply of electricity are well advanced. Mr. E. Guy Dawber, A.R.A., who has taken special interest in the preservation of the characters of a locality, has made plans for the transformation of the farm buildings into a restaurant and for lodge gate cottages. It is hoped to proceed with these in the course of the year.

The Council recognises that the development of a derelict estate into an animal park will require a very large expenditure of time and money. They are anxious not to prejudice the future by proceeding with any work that will not form part of a well-considered plan. They hope, therefore, that Fellows will exercise patience, as it is impractical to open the Park until further progress has been made. They would point out, however, that

there is a wide opportunity for generous donors. Three Fellows of the Society have purchased and presented a strip of land 80 feet wide and about two-thirds of a mile long which will form a magnificent avenue of approach to the Park from the south. Lady Yule, F.Z.S., of Hamstead House, Bricket Wood, Herts., has made a gift of £1,000 to assist in the development of the Park. Gifts either for the general development or for specific objects will be welcome.

48. MENAGERIE.—The Society is as usual much indebted to Fellows, Corresponding Members, Private Donors, and to Institutions, Societies and Shipping Companies for their most kind help in maintaining the collection of animals by gifts and by assistance in transport. Specially to be mentioned in respect of 1928 are H.M. The King, Patron of the Society, the Duke of Bedford, K.G., President of the Society, Mr. Alfred Ezra, F.Z.S., Mr. J. Spedan Lewis, F.Z.S., Mr. A. A. Haserick, F.Z.S., Mr. G. B. Chapman, F.Z.S., the Bombay Natural History Society, the Zoological Gardens of Calcutta, the Rangoon Zoological Gardens, Messrs. Alfred Holt & Co., Messrs. Henderson & Co., the Ellerman Line, the Union-Castle Steamship Co., Messrs. Elders & Fyffes, and the British India Steam Navigation Co., through Messrs. Gray, Dawes & Co.

49. COMMISSARIAT.—In the following table are given the quantities of the principal kinds of food, etc., consumed in the Gardens in 1928 :—

Class.	Description.	Number or Quantity.
Fodder, etc....	Hay	144½ tons.
"	Clover	126½ tons.
"	Straw	107½ tons.
"	Tares	24,239 bundles.
"	Chaff	1 ton 16 cwts.
"	Peat-Moss Litter ...	65 bales.
Grain, etc. ...	Oats	830 qtrs.
"	Bran	199¾ qtrs.
"	Wheat	47½ qtrs.
"	Wheat-Mixture ...	67½ qtrs.

Class.	Description.	Number or Quantity.
Grain, etc. ...	Barley Meal	23½ cwts.
" ...	Maize	26 qtrs.
" ...	Locust Beans	78 cwts.
" ...	Rice	110 cwts.
" ...	Canary Seed	22½ qtrs.
" ...	Hemp Seed	15 qtrs.
" ...	Millet	8 qtrs.
" ...	Millet Sprag	93 bunches.
" ...	Sunflower-seed	13 qtrs.
" ...	Quaker oats	296 lbs.
Fish ..	Plaice	1 ton, 13 cwts.
" ..	Herrings and Whiting	50 tons, 6½ cwts.
" ..	Shrimps	2,082 pints.
Flesh ...	Horses	407 or approx. 256 tons.
" ...	Goats	234.
Milk ...	Condensed—Sweetened	7,200 lbs.
" ...	" Unsweetened	11,712 lbs.
Nuts ...	Spanish... ..	208 qts.
" ...	Monkey	54 cwts.
" ...	Brazil	104 lbs.
Fruit and vegetables	Bananas	186,524.
"	Apples	7 tons, 17¼ cwts.
"	Grapes	2 tons, 6¾ cwts.
"	Oranges	15,506.
"	Dates	14¾ cwts.
"	Currants	9¾ cwts.
"	Sultanas	53 lbs.
"	Lettuce... ..	22,488.
"	Greens	2,490 bushels.
"	Carrots	6 tons, 15 cwts.
"	"	3,808 bunches.
"	Potatoes	34 tons, 4 cwts.
"	Onions	6½ cwts.
"	Mangolds	5 tons, 15 cwts.
"	Swedes	8 tons
Miscellaneous	Biscuits	12 tons, 4¼ cwts.
"	Biscuit meal	7 tons, 12 cwts.
"	" Melox "	3 tons, 14 cwts.
"	Mellin's Food	12 pots.
"	Honey	111 lbs.
"	Bread	13 tons, 16 cwts.
"	Eggs	25,500.
"	Sugar	245 lbs.
"	Ant-eggs	639 lbs.
"	Mealworms	310 lbs.
"	Dried Flies	782 lbs.
"	Cuttle-fish Bone	56 lbs.

50. NUMBERS OF THE COLLECTION.

Animals in the Gardens on December 31st, 1928.

Animals of all kinds (except Fish and Invertebrates) on January 1st, 1928	3,772
Animals of all kinds (except Fish and Invertebrates) received in 1928 by presentation, exchange, deposit, purchase or birth	3,690
	7,462
Animals of all kinds (except Fish and Invertebrates) dead, sold, sent in exchange, or returned to depositors in 1928	3,350
Animals of all kinds (except Fish and Invertebrates) in the Gardens on December 31st, 1928	4,112

Additions to the Collection, 1926-1928.

	Presentation	Purchase.	Deposit.	Exchange.	Birth.	TOTAL.
1926 ..	999	668	93	40	239	2,039
1927 ..	1,255	985	100	16	332	2,688
1928 ..	1,118	1,775	369	48	380	3,690

51. ANIMALS BRED DURING 1928.

Mammals.

April	2 Nylghaie (<i>Boselaphus tragocamelus</i>), reared.
April	9 Prairie Wolves (<i>Canis latrans</i>), 3 reared.
April	1 Common Raccoon (<i>Procyon lotor</i>), died at 10 days.
April	5 Triton Hamsters (<i>Cricetulus triton</i>), 2 died, 3 reared.
April	2 Papuan Flying Phalangers (<i>Petaurus breviceps papuanus</i>), reared.
April	3 Common Foxes (<i>Vulpes vulpes</i>), died soon after birth.
April	7 Mouflon (<i>Ovis musimon</i>), reared.

- May 1 Hybrid Urial Sheep (*Ovis vignei* × *Ovis ophion*), reared.
- May 2 Persian Gazelles ♀ ♀ (*Gazella subgutturosa*), reared.
- May 1 Californian Sea Lion (*Otaria californiana*), reared.
- May 1 Prejevalski's Wild Horse ♂ (*Equus prejevalskii*), reared.
- June 1 Virginian Deer (*Odocoileus virginianus*), reared.
- June 1 Marica Gazelle ♂ (*Gazella marica*), reared.
- June 1 Himalayan Ibex (*Capra sibirica*), died at 3 weeks old.
- June 3 Black Rats (*Rattus rattus* (var. *brookei*)), reared.
- June 1 Indian Fruit Bat (*Pteropus medius*), died at 4 months old.
- June 12 Prairie-Marmots (*Cynomys ludovicianus*), reared.
- June 1 Yak (*Bos grunniens*), died at 2 days old.
- May 5 Caucasian Ibex (*Capra cylindricornis*), reared.
- June 3 Long-tailed Gerbilles (*Gerbillus gerbillus*), reared.
- June 1 Kashmir Deer (*Cervus hanglu*), reared.
- July 2 Collared Peccaries (*Tayassu tajacu*), reared.
- July 1 Hog Deer (*Axis porcinus*), reared.
- July 1 Pig-tailed Macaque (*Macacus nemestrinus*), reared.
- July 1 Leopard (*Felis pardus*), died when 3 weeks old.
- July 1 Kiang ♀ (*Equus kiang*), reared.
- July 1 East African Buffalo ♀ (*Bos caffer*), reared.
- Feb.to } 19 Shaws Gerbilles (*Meriones shawi*), reared.
July }
- June& } 6 Thar (*Hemitragus jemlaicus*), reared.
July }
- August 1 Blackbuck (*Antilope cervicapra*), reared.

- Sept. 1 Red Kangaroo (*Macropus rufus*), reared.
 Sept. 1 Hamadryas Baboon (*Papio hamadryas*), reared.
 October 3 Triton Hamsters (*Cricetulus triton*), 1 died,
 2 reared.
 October 1 Grévy's Zebra ♂ (*Equus grevyi*), reared.
 October 1 Hamadryas Baboon (*Papio hamadryas*), reared.
 Nov. 1 Hamadryas Baboon (*Papio hamadryas*), reared.
 Jan. to } 12 Barbary Sheep (*Ammotragus lervia*), reared.
 Nov. }

Birds.

- May & } 7 Ceylonese Jungle-Fowl, 5 ♂, 2 ♀ (*Gallus*
 Oct. } *lafayettei*), reared.
 May to } 150 Budgerigars (Green) (*Melopsittacus undulatus*),
 Nov. } reared.
 } 60 Blue Budgerigars (*Melopsittacus undulatus* var.),
 } reared.
 } 4 Yellow Budgerigars (*Melopsittacus undulatus*,
 } var.), reared.
 } 3 White Budgerigars (*Melopsittacus undulatus*,
 } var.), reared.
 June 4 Paradise Sheldrake, ♂, 3 ♀ (*Casarca variegata*),
 reared.
 July 2 Peacock Pheasants (*Polyplectron chinquis*),
 reared.
 July 1 Common Peafowl (*Pavo cristatus*), reared.
 July 1 Black-winged Peafowl (*Pavo cristatus nigripennis*), reared.
 Sept. 1 Sacred Ibis (*Ibis æthiopica*), reared.
 October 4 Fischer's Lovebirds (*Agapornis fischeri*), reared.
 October 3 Nyasa Lovebirds (*Agapornis lilianæ*), reared.
 October 1 Black-cheeked Lovebird (*Agapornis nigrigenis*),
 reared.
 Nov. 5 Masked Lovebirds (*Agapornis personata*), reared.

52. LIST OF SPECIES NEW TO THE COLLECTION IN 1928.

(The figures placed before each name indicate its approximate position in the Vertebrate List.)

I.—MAMMALS.

- 15 *d.* *Presbytes thomasi* Collett. Thomas's Langur.
Hab. Sumatra.
a, b. Purchased, 21st January, 1928.
- 342 *d.* *Tupaia belangeri tonquinia* Thos. Tonquin Tree Shrew.
Hab. Annam.
a-d. Presented by J. Spedan Lewis, Esq., F.Z.S., 6th June, 1928.
- 345 *c.* *Erinaceus dorsalis* Anderson & de Winton. Arabian Hedgehog.
Hab. Arabia.
a, b. Presented by Capt. G. V. Wickham, F.Z.S., 7th May, 1928.
- 377 *a.* *Sciurus flavimanis* Is. Geoffroy. Yellow-footed Squirrel.
Hab. Annam.
a, b. Presented by J. Spedan Lewis, Esq., F.Z.S., 6th June, 1928.
- 379 *a.* *Tomentes brookei* Thos. Brooke's Squirrel.
Hab. Sarawak.
a-d. Presented by Miss Adelaide Champneys, F.Z.S., 2nd November, 1928.

- 388 *d.* *Sciurus melania* Gray. Black Squirrel.
Hab. Costa Rica.
a, b. Presented by Miss Adelaide Champneys,
 F.Z.S., 2nd November, 1928.
- 423 *d.* *Graphiurus murinus* Desmarest. Cape Dormouse.
Hab. South Africa.
a. Presented by Gordon Osmand, Esq., 5th
 October, 1928.
- 435 *c.* *Dipodomys phillipsi* Gray. Kangaroo Rat.
Hab. North America.
a-i. Purchased, 12th June, 1928.

II.—BIRDS.

- 14 *j.* *Turdus mandarina* Bp. Chinese Blackbird.
Hab. China.
a. Deposited, 10th May, 1928.
- 20 *e.* *Turdus pallidus* Gmel. Pallid Thrush.
Hab. Japan.
a. Deposited, 9th January, 1928.
- 20 *f.* *Turdus cardis* Temm. Grey Japanese Thrush.
Hab. Japan.
a. Deposited, 9th January, 1928.
- 20 *g.* *Turdus naumanni* Temm. Red-tailed Thrush.
Hab. Japan.
a. Deposited, 9th January, 1928.
- 20 *h.* *Turdus varius* Pall. White's Thrush.
Hab. Japan.
a. Deposited, 9th January, 1928.

- 83 e. *Pycnonotus blanfordi* Jerd. Blanford's Bulbul.
Hab. Indo China.
 a, b. Presented by Miss A. Guest, F.Z.S., 8th
 May, 1928.
- 85 c. *Hypsipetes leucocephalus* (Gm.). White-headed
 Bulbul.
Hab. China.
 a. Presented by Alex. Hampe, Esq., 24th
 December, 1928.
- 92 a. *Garrulax leucolophus diardi* (Less.). Diard's
 White-crested Jay-Thrush.
Hab. Annam.
 a, b. Presented by J. Spedan Lewis, Esq., F.Z.S.,
 6th June, 1928.
- 100 i. *Malacocincla rufiventris* (Salvad.). Rufous-vented
 Babbler.
Hab. Borneo.
 a. Presented by J. Spedan Lewis, Esq., F.Z.S.,
 29th November, 1928.
- 116 e. *Xanthopygia narcissina* (Temmm.). Narcissus Fly-
 catcher.
Hab. Japan.
 a. Deposited, 9th January, 1928.
- 116 f. *Cyanoptila cyanomelæna* (Temmm.). Blue Fly-
 catcher.
Hab. Japan.
 a. Deposited, 9th January, 1928.
- 121 a. *Zosterops japonica* Temm. Japanese White-eye.
Hab. Japan.
 a. Deposited, 9th January, 1928.
- 121 b. *Zosterops stejnegeri* Seeb. Stejneger's White-eye.
Hab. Japan.
 a. Deposited, 9th January, 1928.

- 121 c. *Zosterops erythropleura* Swinh. Red-flanked
White-eye.
Hab. Japan.
a. Deposited, 9th January, 1928.
- 207 b. *Poëphila acuticauda hecki* Heinroth. Heck's Long-
tailed Grassfinch.
Hab. North Australia.
a-f. Purchased, 19th January, 1928.
- 217 a. *Sycobrotus stictifrons* (Fischer & Reichenow). Spot-
headed Weaver-Bird.
Hab. Portuguese East Africa.
a, b. Purchased, 29th December, 1928.
- 297 c. *Eophona melanura* (Gm.). Black-headed Haw-
finch.
Hab. China.
a. Presented by H. C. Eustace, Esq., 10th May,
1928.
- 359 a. *Emberiza variabilis* Temm. Japanese Grey
Bunting.
Hab. Japan.
a. Deposited, 9th January, 1928.
- 404 b. *Garrulus japonicus* Temm. Japanese Jay.
Hab. Japan.
a. Deposited, 9th January, 1928.
- 417 a. *Leucopsar rothschildi* Stresem. Rothschild's
Grackle.
Hab. Bali.
a-e. Deposited, 26th November, 1928.
- 458 c. *Cyanocorax mystacalis* G. St. Hilaire. White-
tailed Jay.
Hab. Peru.
a, b. Presented by A. J. Storey, Esq., 13th
August, 1928.

- 467 a. *Crypsirhina varians* (Lath.). Fork-tailed Magpie.
Hab. Annam.
 a, b. Presented by J. Spedan Lewis, Esq., F.Z.S.,
 6th June, 1928.
- 468 a. *Cissa hypoleuca chauleti* Delacour. Chaulet's Cissa.
Hab. Annam.
 a. Presented by J. Spedan Lewis, Esq., F.Z.S.,
 6th June, 1928.
- 514 a. *Calypptomena viridis* Raffles. Green Broadbill.
Hab. Malay Peninsula.
 a. Presented by J. Spedan Lewis, Esq., F.Z.S.,
 29th November, 1928.
- 541 a. *Rhinoplax vigil* (Forst.). Helmeted Hornbill.
Hab. Sarawak.
 a. Presented by J. Spedan Lewis, Esq., F.Z.S.,
 29th November, 1928.
- 542 a. *Buceros sylvestris* Vieill. Javan Hornbill.
Hab. Java.
 a. Presented by J. Spedan Lewis, Esq., F.Z.S.,
 29th November, 1928.
- 552 a. *Bycanistes buccinator* (Temm.). Trumpeter Hornbill.
Hab. Portuguese East Africa.
 a, b. Purchased, 29th December, 1928.
- 559 b. *Melittophagus meridionalis* Sharpe. Little Bee-Eater.]
Hab. Portuguese East Africa.
 a, b. Deposited, 24th December, 1928.
- 563 a. *Rhamphastos tocard* Levaill. Tocard Toucan.
Hab. Ecuadorean Sierra, South America.
 a. Presented by A. J. Storey, Esq., 13th August,
 1928.

- 575 a. *Psilopogon pyrolophus* S. Müll. Fire-tufted Barbet.
Hab. Malay Peninsula.
 a. Presented by J. Spedan Lewis, Esq., F.Z.S.,
 29th November, 1928.
- 577 e. *Thereiceryx phæostriatus* (Bp.). Striated Barbet.
Hab. Indo China.
 a. Presented by J. Spedan Lewis, Esq., F.Z.S.,
 10th November, 1928.
- 578 i. *Chotorhea corvina* (Temm.). Crow-billed Barbet.
Hab. Java.
 a. Presented by J. Spedan Lewis, Esq., F.Z.S.,
 29th November, 1928.
- 578 j. *Barbatula bilineata* (Sundev.). White-browed
 Tinker.
Hab. Portuguese East Africa.
 a. Deposited, 24th December, 1928.
- 814 e. *Tyto perlata* (Licht.). South American Barn Owl.
Hab. South America.
 a, b. Deposited, 13th April, 1928.
- 860 b. *Ninox scutulata* (Raffl.). Hairy Owl.
Hab. Japan.
 a. Deposited, 9th January, 1928.
- 1155 a. *Cyanochen cyanopterus* (Rupp.). Blue-winged
 Goose.
Hab. Abyssinia.
 a, b. Deposited, 5th September, 1928.
- 1196 b. *Clangula islandica* (Gm.). Barrow's Golden-eye.
Hab. North America.
 a-d. Deposited, 26th October, 1928.

- 1271 j. *Turturæna iriditorques* (Cass.). Bronze-collared Dove.
Hab. Gold Coast, West Africa.
 a. Presented by T. R. Sanderson, Esq., 26th June, 1928.
- 1396 a. *Lobiophasis bulweri* Sharpe. Bulwer's Pheasant.
Hab. Sarawak.
 a-c. Deposited, 26th November, 1928.
- 1412 d. *Hierophasis imperialis* Delacour & Jabouille. Imperial Pheasant.
Hab. Northern Annam.
 a. Received in exchange, 12th September, 1928.
- 1428 a. *Rheinardius ocellatus* (Verr.). Rheinard's Argus Pheasant.
Hab. Annam.
 a. Presented by Monsieur J. Delacour, F.Z.S., 30th May, 1928.
- 1555 a. *Burhinus capensis* (Licht.). Cape Thicknee.
Hab. Portuguese East Africa.
 a. Purchased, 29th December, 1928.

III.—REPTILES.

- 30 c. *Cistudo bauri* Taylor. Baur's Box Tortoise.
Hab. Northern U.S.A.
 a-h. Purchased, 8th September, 1928.
- 60 d. *Testudo microphyes* Gunther. Galapagos Tortoise.
Hab. Albemarle Island.
 a. Presented by J. Spedan Lewis, Esq., F.Z.S., 17th April, 1928.
- 122 g. *Palmatogecko rangei* Andersson. Ghost Gecko.
Hab. Kalahari Desert, Bechuanaland.
 a-b. Purchased, 12th September, 1928.

- 136 a. *Physignathus cochinchinensis* (Guerin). Cochin-China Water Lizard.
Hab. Siam.
 a, b. Presented by J. Spedan Lewis, Esq., F.Z.S., 6th June, 1928.
- 137 b. *Lophura amboinensis* (Schloss.). Fin-tailed Lizard.
Hab. Philippines, Java & Celebes.
 a, b, c. Presented by A. St. Alban Smith, Esq., F.Z.S., 26th November, 1928.
- 149 e. *Liolaemus gracilis* Bell. Spiny-scaled Lizard.
Hab. Argentine.
 a. Presented by G. Cannock Lovibond, Esq., 10th March, 1928.
- 149 f. *Liolaemus chilensis* (Lesson). Chilean Lizard.
Hab. Chile.
 a, b. Purchased, 20th June, 1928.
- 149 g. *Diplolaemus darwenii* Bell. Darwen's Lizard.
Hab. Patagonia and Chile.
 a, b. Purchased, 20th June, 1928.
- 169 c. *Gerrhonotus kingii* Gray. King's Keeled Lizard.
Hab. Mexico.
 a. Purchased, 1st June, 1928.
- 168 b. *Zonurus cataphractus* (Boie). Armoured Zonure.
Hab. South Africa.
 a-x. Purchased, 20th June, 1928.
- 171 a. *Anniella pulchra* Gray. Californian Worm Lizard.
Hab. Southern California.
 a. Presented by Prof. E. Hindle, M.A., F.Z.S., 2nd January, 1928.

- 183 d. *Varanus rudicollis* (Gray). Rough-necked Monitor.
Hab. Malay.
 a. Presented by A. St. Alban Smith, Esq., F.Z.S.,
 26th November, 1928.
- 187 b. *Ameiva undulata* (Weigm.). South American
 Striped Lizard.
Hab. Central America.
 a. Presented by G. Cannock Lovibond, Esq.,
 10th March, 1928.
- 199 c. *Lacerta muralis pitusensis* Bosca. Balearic Island
 Wall-Lizard.
Hab. Balearic Islands.
 a-i. Purchased, 5th June, 1928.
- 203 d. *Lacerta stehlini* Schenk. Stehlin's Lizard.
Hab. Gran Canaria.
 a-f. Purchased 29th August, 1928.
- 216 c. *Egernia kingii* (Gray). King's Scink.
Hab. W. and S. Australia.
 a. Purchased, 26th October, 1928.
- 225 h. *Mabuya perrotetii* (Dum. and Baird). Orange-
 flanked Scink.
Hab. West Africa.
 a, b, c, d. Presented by Stanley F. Woodward,
 Esq., 16th November, 1928.
- 225 i. *Mabuya planifrons* Peters. Red-tailed Scink.
Hab. East Africa.
 a. Purchased, 29th December, 1928.
- 269 a. *Cylindrophis rufus* (Laur.). Red-marked Burrow-
 ing Snake.
Hab. Malay.
 a. Presented by A. St. Alban Smith, Esq., F.Z.S.,
 26th November, 1928.

- 284 *d.* *Helicops carinicauda* (Wied). Keel-tailed Water-Snake.
Hab. Brazil.
a. Purchased, 1st June, 1928.
- 319 *a.* *Herpetodryas fuscus* (Linn). Spix's Snake.
Hab. Brazil.
a. Purchased, 4th September, 1928.
- 321 *a.* *Chlorophis heterolepidotus* (Gunther). Odd-scaled Snake.
Hab. Tropical Africa.
a. Presented by Stanley F. Woodward, Esq., 16th November, 1928.
- 329 *c.* *Liophis viridis* Günther. Bright-green Snake.
Hab. Brazil.
a. Presented by C. S. Garnett, Esq., 31st July, 1928.
- 342 *h.* *Simotes octolineatus* (Schneid.). Eight-lined Snake.
Hab. S. India & Malay.
a. Presented by A. St. Alban Smith, Esq., F.Z.S., 26th November, 1928.
- 351 *g.* *Boiga cynodon* (Boie). Boie's Cat Snake.
Hab. Malay.
a. Presented by J. Spedan Lewis, Esq., F.Z.S., 28th November, 1928.
- 373 *h.* *Passerita pulverulenta* (Dum. and Bibr.). Powdered Tree-Snake.
Hab. India.
a, b. Received in exchange from the Calcutta Zoological Gardens, 29th June, 1928.
- 395 *a.* *Leptognathus catesbyi* (Senz.). Catesby's Snake.
Hab. Brazil.
a-b. Purchased, 4th September, 1928.

416 f. *Trimeresurus sumatranus* Raffles. Sumatran Pit
Viper.

Hab. Sumatra and Borneo.

a. Presented by J. Spedan Lewis, Esq., F.Z.S.,
28th November, 1928.

IV.—AMPHIBIANS.

13 g. *Rana sphenocephala* Cope. Southern Leopard
Frog.

Hab. Southern United States.

a, b, c. Purchased, 5th May, 1928.

24 d. *Batrachophrynus macrostomus* Peters. South
American Bull Frog.

Hab. Chili and Peru.

a. Purchased, 20th June, 1928.

35 a. *Bufo carens* Smith. Slender Toad.

Hab. East Africa.

a-i. Purchased, 29th December, 1928.

36 e. *Bufo fowleri* Putnam. Fowler's Toad.

Hab. U.S.A.

a, b. Presented by Miss Doris Cochran, 10th July,
1928.

46 b. *Hyla squirella* Daud. Southern Tree Frog.

Hab. N. America.

a, b, c. Purchased, 4th October, 1928.

IV.—FISHES.

4 d. *Potrometopon cruentatus* Jord. and Eig. Spotted
Grouper.

Hab. Coast of Bermuda.

a. Presented by the Bermuda Aquarium, 2nd
July, 1928.

- 4 e. *Bodianus punctatus* Linn. Nigger Fish.
Hab. Coast of Bermuda.
a-c. Presented by the Bermuda Aquarium,
 2nd July, 1928.
- 4 f. *Lutianus griseus* Linn. Grey Snapper.
Hab. Coast of Bermuda.
a-f. Presented by the Bermuda Aquarium,
 2nd July, 1928.
- 4 g. *Lutianus synagris* Linn. Spot Snapper.
Hab. Coast of Bermuda.
a-c. Presented by the Bermuda Aquarium,
 2nd July, 1928.
- 4 h. *Ocyurus chrysurus* (Linn.). Yellow-tailed Snapper.
Hab. Coast of Bermuda.
a-b. Presented by the Bermuda Aquarium,
 2nd July, 1928.
- 4 j. *Hyploplectrum puella* (Cuv. and Val.). Marbled
 Grouper.
Hab. Coast of Bermuda.
a-d. Presented by the Bermuda Aquarium,
 2nd July, 1928.
- 4 k. *Haemulon sciurus* (Shaw). Blue-Striped Grunt.
Hab. Coast of Bermuda.
a-r. Presented by the Bermuda Aquarium,
 2nd July, 1928.
- 4 l. *Haemulon flavolineatus* Cuv. and Val. Yellow
 Grunt.
Hab. Coast of Bermuda.
a-h. Presented by the Bermuda Aquarium,
 2nd July, 1928.
- 4 m. *Haemulon album* Cuv. and Val. Jallao Grunt.
Hab. Coast of Bermuda.
a-d. Presented by the Bermuda Aquarium,
 2nd July, 1928.

- 4 n. *Bathystoma rimator* Jord. and Swain. Tom-Tate.
Hab. Coast of Bermuda.
 a-l. Presented by the Bermuda Aquarium,
 2nd July, 1928.
- 9 d. *Holocentrum ascensionis* (Osbeck). Bermuda
 Soldier Fish.
Hab. Coast of Bermuda.
 a-m. Presented by the Bermuda Aquarium,
 2nd July, 1928.
- 9 e. *Glyphisodon saxatilis* Linn. Cow Pilot.
Hab. Coast of Bermuda.
 a-j. Presented by the Bermuda Aquarium,
 2nd July, 1928.
- 9 f. *Diplodus argenteus* (Cuv. and Val.). Bermuda
 Sea-Bream.
Hab. Coast of Bermuda.
 a-m. Presented by the Bermuda Aquarium,
 2nd July, 1928.
- 9 g. *Sargus fasciatus* Cuv. and Val. Banded Sea-
 Bream.
Hab. Coast of Madeira.
 a. Purchased, 9th April, 1928.
- 9 h. *Chaetodon capistratus* Linn. Butterfly Fish.
Hab. Coast of Bermuda.
 a-c. Presented by the Bermuda Aquarium,
 2nd July, 1928.
- 23 a. *Labrisomus nuchipinnis* Quoy and Gaim. Bermuda
 Blenny.
Hab. Coast of Bermuda.
 a-r. Presented by the Bermuda Aquarium,
 2nd July, 1928.

- 56 a. *Salmo alpinus* Linn. Northern Charr.
Hab. Fresh-waters of Northern Europe.
a-c. Purchased, 5th November, 1928.
- 62 f. *Melanotaenia nigrans* Richardson. Australian
 Rainbow Fish.
Hab. Fresh-Waters of Southern Australia.
a-r. Purchased, 3rd July, 1928.
- 75 a. *Nannostomus anomalus* Steid. Slender Fish.
Hab. Fresh-Waters of the Guianas and Brazil.
a-b. Presented by P. Arnold, Esq., 3rd July, 1928.
- 75 b. *Holacanthus ciliaris* Linn. Blue Angel Fish.
Hab. Coast of Bermuda.
a-c. Presented by the Bermuda Aquarium,
 2nd July, 1928.
- 89 b. *Balistes capriscus* Linn. Northern Trigger Fish.
Hab. Coast of Madeira.
a. Purchased, 15th October, 1928.
- 89 c. *Balistes vetula* Linn. Bermuda Trigger Fish.
Hab. Coast of Bermuda.
a. Presented by the Bermuda Aquarium, 2nd
 July, 1928.

53. LIST OF DONORS.

- ABRAHAMS, Mrs. 1 Ring-necked Parrakeet.
 ABURROW, A. E. 1 Common Iguana.
 ADDEY, F. 2 Black Salamanders.
 AGAR, T. F., F.Z.S. 1 Puma.
 AHRENS, C. 1 Green Monkey.
 AMSLER, Dr. M., F.Z.S. 2 Hermit Thrushes.
 ANGUS, Mrs. Edgar P. 1 Larger Hill Mynah.
 ARMITAGE, W. 1 Common Snake.
 ARNOLD, Mr. Paul. Collection of Tropical Fresh-water
 Fish.

- ASHBY, E. B., F.Z.S., F.E.S. 1 Smooth Newt.
- ASSHETON, Nicholas. 1 Red Jungle Fowl.
- ASTLEY, Mrs. Hubert. 3 North American Turkeys.
- ATHILL, Miss. 2 Budgerigars.
- ATKIN, Sannyer, F.Z.S. 2 Pennsylvanian Mud Terrapins,
1 Reeves's Terrapin.
- BAILEY, Lt.-Col. F. G. G., F.Z.S. 1 Montagu's Harrier.
- BAILEY, G. L. 1 African Rhinoceros.
- BAILEY, J. T. 1 Mona Monkey.
- BARCLAY, Mrs. 1 Budgerigar.
- BARLOW, A. W. 2 Amherst Pheasants.
- BARNS, T. Alexander, F.Z.S., and GREENWOOD, Mrs.
1 Red-crested Touracou, 1 Schalow's Touracou.
- BARRETT, C. R. 3 Derbian Zonures.
- BARTLEY, R. H. K. 1 Common Marmoset.
- BASAPA, W. L. S., C.M.Z.S. 1 Pig-tailed Macaque.
- BASSETT, G. 1 Black Rat (White var.).
- BATT, Capt. A. E. 1 Patas Monkey.
- BEDFORD, H.G. The Duke of, K.G., F.R.S., President.
Great Lake Trout, Salmon.
- BENTLEY, Mrs. 2 Algerian Tortoises.
- BERESFORD, Miss Jessie. 2 Java Sparrows, 2 Red-headed
Cardinals, 1 Grey-headed Lovebird, 2 Budgerigars,
1 Nutmeg Finch, 1 Black-headed Mannikin.
- BERMUDA AQUARIUM. Collection of Marine Fish.
- BERRIE, D. 1 Japanese Scops Owl.
- BIGNELL, E. L. 1 Reeves's Terrapin.
- BIRTWHISTLE, H. W. 1 Baska Water Tortoise.
- BLANDFORD, Dr. W. F., F.Z.S. 4 Diamond Finches.
- BLANDY, W. F. 1 Green-backed Porphyrio.
- BLUTH, A. O., F.Z.S. 2 Avadavats, 2 White-headed
Mannikins, 2 Nutmeg Finches, 2 Common Waxbills,
2 Cut-throat Finches, 2 Zebra Finches.
- BROOKE, H. C. 5 Black Rats.
- BROOKE, Mrs. Rupert. 1 Grey Mongoose.

- BROOM, R. 4 Greenish Newts.
- BROWNE, The Hon. Geoffrey. 1 Common Marmoset.
- BUCKLEY, Miss Daphne. 1 Horned Toad.
- BURNHAM, R. L. 1 Bosman's Potto.
- BUTLER, C. McArthur. 1 Grey Parrot.
- BUXTON, D. A. J. 9 Black Rats.
- BYRNE, L. G. 2 Spotted Salamanders.
- CAMPBELL, A. 2 Grey Mongooses.
- CAPELL, Mrs. A. E. 1 Burnett's Monkey.
- CAPITO, C. E., O.B.E., F.Z.S. 1 Short-toed Eagle, 6 South Persian Chukar Partridges.
- CARINGTON, Mrs. 1 Green Monkey.
- CARVER, W. Roach-Bream.
- CASLON, C. A. 2 Eastern Paradise Whydah-birds.
- CHAPLIN, The Hon. Anthony, F.Z.S. 1 Garden Warbler, 1 Fox Snake.
- CHAMPNEYS, Miss Adelaide, F.Z.S. 1 Indian Palm Squirrel, 3 Dorsal Squirrels, 2 Prevost's Squirrels, 1 Plantain Squirrel, 5 Brooke's Squirrels, 2 Black Squirrels, 1 Tropical Squirrel, 2 Java Squirrels, 3 Red-footed Ground Squirrels, 2 Bristly Ground Squirrels.
- CHAPMAN, G. Bruce, F.Z.S. 2 Fischer's Lovebirds, 2 Masked Lovebirds, 2 Pectoral Finches, 4 Masked Grass Finches, 4 Long-tailed Grass Finches, 4 Zebra Finches, 2 Shore Larks, 1 Swamp Quail, 2 Rain Quail, 2 Jungle Bush Quail.
- CHUBB, E. C., F.Z.S. 2 Egg-eating Snakes, 1 Rufous Snake, 4 Nile Monitors, 13 Rough-scaled Zonures, 6 Spotted Slow-Scinks, 1 Dwarf Chameleon, 5 Areolated Tortoises, 2 Galeated Pentonyx, 1 Black Sternothera.
- CLARKE, Mrs. M. 1 Grey-headed Lovebird.
- COCHRAN, Miss Doris. 3 False Mocassins, 1 King Snake, 2 Fowler's Toads, 4 Magnolia Snakes, 2 Fowler's Toads.
- CODD, Martin N. 1 Pileated Jay, 1 Golden-bellied Grosbeak.
- COOK, N. 1 Blue and Yellow Macaw.

- COONAN, J. F. Hermit Crabs, Anemones.
- COOPER, Mrs. Guy. 1 Elephantine Tortoise.
- COTTERELL, R. 1 Pekin Robin.
- COTTON, Mrs. 1 Ariel Toucan.
- CRANBROOK, The Earl of. 2 Rough Newts.
- CREIGHTON, Major W. R. 1 Fennec Fox.
- CUMMINGS, Patrick. 1 Common Marmoset.
- DARLING, Miss K. 2 Common Marmosets.
- DAVIS, T. A. W. 1 Albino Brown Rat.
- DELACOUR, Monsieur Jean, F.Z.S. 1 Rheinhard's Argus Pheasant.
- DICKINSON, Mrs. 2 Avadavats.
- DOWLING, A. 2 Algerian Tortoises.
- DUNN, Miss Agnes, F.Z.S. 1 Grey Mongoose.
- DURRANT, L. A. 2 Slowworms.
- EARLE, Miss Peggy. 1 Black Lemur.
- ELLINGWORTH, Dr. Clifford. 1 Rhesus Monkey.
- ELLIOTT, Clarence. 12 Ocellated Bladder Frogs.
- EUSTACE, H. C. 1 Black-headed Hawfinch, 1 Rose Finch, 2 Painted Quail.
- EVANS, David. 2 Budgerigars.
- EVANS, Miss J. 1 Pekin Robin.
- EVANS, Mrs. 1 Yellow-winged Sugarbird.
- EYRE, Miss M. 1 Budgerigar.
- EZRA, Alfred, O.B.E., F.Z.S. 4 Yellow-wattled Peewits, 2 Blue Sugar-birds, 2 Horned Tragopans, 4 Chukar Partridges, 2 Malabar Parrakeets, 1 Entellus Langur, 2 Javan Tree Ducks, 2 Red-crested Pochards, 1 Llama, 3 Hamadryads, 2 Banded Kraits, 1 Common Krait, 14 Russell's Vipers, 11 Indian Cobras, 4 Chequered Keelbacks, 18 Mud Snakes, 4 Buff-striped Keelbacks, 1 Wattled Crane.
- FALLIS, W. 1 Peter's Dwarf Mongoose.
- FARR, Mrs. 1 Common Marmoset.

- FARRAR, Reginald, Executors of the late. 1 Malayan Tapir.
- FARREN, Lady. 1 Shag.
- FEILDEN, Dr. F. Ernest. 1 Negro Tamarin, 1 Brazilian Tortoise, 1 Orange-winged Parrot.
- FENTON, J. S. 1 Pigmy Hippopotamus.
- FISHER, Mrs. F. A. 1 Serrated Terrapin.
- FLETCHER, Capt. H. M. 1 Alexandrine Parrakeet.
- FLETCHER, Dr. N. Corbet. 1 Glass Snake.
- FLYNN, Mrs. 1 Algerian Tortoise.
- FORGE, Miss Edith. 1 Common Waxbill.
- FROST, W. J. C. 2 Satin Bower-birds, 2 Barraband's Parakeets, 1 White-necked Saltator, 1 Red Howler, 1 Feline Douroucouli, 2 Three-banded Douroucoulis, 1 Noble Pheasant Pigeon.
- GARNETT, C. S. 1 Bright-green Liophis, 1 Common Iguana.
- GIBB, Sir Alexander, G.B.E., C.B., F.Z.S. 2 Golden Eagles.
- GIL, Julian. 2 Crimson-eared Waxbills, 2 Blue-headed Waxbills, 4 Golden-breasted Waxbills, 4 Avadavats, 1 Lavender Finch, 1 Brazilian Hangnest, 1 Song Thrush.
- GILES, Capt. C. C. T. 1 Goshawk.
- GILES, The Rev. R. A. 1 Black Wallaby.
- GRAHAM, C. 1 Bonnet Monkey.
- GRAHAM, Lady Malise. 6 Wall-Lizards.
- GRANTHAM, Donald R., M.C., Ph.D. 2 Oak Dormice.
- GRAVES, The Hon. Cherry. 3 Armoured Zonures.
- GREENWOOD, Mrs. *See* Barns, T. Alexander, F.Z.S.
- GUDGE, T. J. 1 Red and Blue Macaw.
- GUEST, Miss A., F.Z.S. 1 Abyssinian Barbet, 1 Brazilian Hangnest, 2 Blanford's Bulbuls, 1 Fischer's Lovebird, 2 White-bellied Plumed Ground-Doves.
- GUNN, T. E. 1 Dabchick.
- GUNNELL, B. E. 1 Burnett's Monkey.
- GURNEY, G. H., F.Z.S. 1 Senegal Coucal, 2 Giant Toads.

- HAEGLER, Miss Jeannette. 1 Leopardine Snake.
- HAGENBECK, Messrs. Collection of Tropical Freshwater Fish.
- HALL, Dr. F. R. 1 Indian Cobra.
- HALL, L. Beeching. 2 Smooth Snakes.
- HAMILTON, Mrs. 1 Bullfinch.
- HAMPE, Alex. 1 White-headed Bulbul.
- HAMPSON, C. 1 Moustache Monkey.
- HANNAM, F. B. Lobsters.
- HARDY, Mrs. 1 Two-spotted Palm Civet.
- HARLEY, Mrs. Lilian. 1 Green Lizard.
- HARRIS, John H. 1 African Civet Cat.
- HARRISON, J. W. 1 Horned Toad.
- HASERICK, A. A., F.Z.S. 1 Kinkajou.
- HAWKES, Master M. 1 Grass Snake.
- HAY, Lady Drummond. 1 Triton Cockatoo.
- HAYMAN, D. K. 1 Chimpanzee.
- HENDERSON, Master Alistair. 1 Green Lizard.
- HENNEL, Wilfred. 3 Slowworms.
- HINDLE, Prof. E., M.A., Ph.D., F.Z.S. 12 Sand Hamsters,
6 Triton Hamsters, 1 Californian Worm Lizard,
1 Pacific Horned Toad.
- HOARE, Capt. E. R. D. 2 Globose Curassows.
- HODGSON, Capt. R. V. 1 Grey Mongoose.
- HOLLIDAY, J. W. 10 Avadavats, 6 Common Waxbills,
2 Green Singing Finches.
- HOLMES, Mrs. 1 Great-billed Weaver-bird.
- HOPKINSON, Dr. E., C.M.G., D.S.O., F.Z.S. 1 Beautiful
Spreo, 1 Purple-headed Glossy Starling, 1 White-
bellied Amethyst Starling.
- HORNBY, Mrs. F. V. 1 Green Monkey.
- HOWARD DE WALDEN, The Lord, F.Z.S. 3 Elands.
- HOWE, Alfred. 1 Roseate Cockatoo.
- HUBBLE, Mrs. 1 Bonnet Monkey.
- HUCKS, William. 1 Barn Owl.

- HUDSON, Capt. H. W. 1 Raccoon.
- HULLEY, Miss. 1 Scarlet Tanager, 2 Golden-breasted Waxbills, 2 Avadavats, 1 Orange-cheeked Waxbill, 2 Common Waxbills, 2 Nutmeg Finches, 1 Nonpareil Bunting, 2 Budgerigars.
- HUNT, H. L. Holman. 18 Tuctoos.
- HUTT, Mrs. 1 Great Green Lizard.
- JOEKES, Dr. Theodore, F.Z.S. 3 Red-crested Cardinals.
- JOHNSTON, Sir George Lawson, K.B.E., F.Z.S. 2 Toco Toucans, 3 Great American Egrets, 2 Brazilian Cariamas, 9 Viscacias.
- JONES, F. H. Page. 2 Bateleur Eagles.
- JUKES, M. N. 1 Squirrel Monkey.
- KEMP, Mrs. 1 Bauer's Parrakeet.
- KENNEY, J. B. 1 Bengalese Finch.
- KLEIN, Mrs. Annie. 1 Madeira Wall Lizard.
- KNIGHT, G. W. 1 Greater Spotted Woodpecker.
- LANE, Mrs. 1 Crab-eating Monkey.
- LEE, E. A. 1 Flap-necked Chameleon.
- LEE, G. A. 1 Blotched Genet.
- LEE, J. 1 Algerian Tortoise.
- LEMAR, E. J. 1 Wild Rabbit.
- LEWIS, Arthur, F.Z.S. 2 Nyasa Lovebirds, 2 Masked Lovebirds, 8 Hybrid Masked and Nyasa Lovebirds, 2 Senegal Parrots, 2 Ring-necked Parrakeets, 2 Fischer's Lovebirds.
- LEWIS, J. Spedan, F.Z.S. 2 Spotted Eagle-Owls, 2 Grey Eagle-Owls, 1 Malay Fish-Owl, 1 Galapagos Tortoise, 4 Tonquin Tree Shrews, 2 Diard's White-crested Jay-Thrushes, 2 Chinese Jay-Thrushes, 1 Chaulet's Yellow Cissa, 2 Fork-tailed Magpies, 2 Renault's Ground Cuckoos, 2 Yellow-footed Squirrels, 2 Cochin-China Water Lizards, 1 Striated Barbet, 1 Indian Cuckoo, 1 Boie's Cat Snake, 2 Night Tree Snakes, 1 Green Pit Viper, 1 Reticulated Python, 2 Blue Temple Vipers, 1 Dog-faced Water

- Snake, 1 Sumatran Pit Viper, 1 Great Indian Hornbill, 1 Helmeted Hornbill, 1 Javan Hornbill, 1 Fire-tufted Barbet, 2 Javan Great-billed Barbets, 1 Crow-billed Barbet, 1 Green Broadbill, 1 Changeable Hawk-Eagle, 1 White-bellied Sea-Eagle, 1 Malay Fish Owl, 1 Rufous-vented Babbler, 4 Malayan Palm Civets, 1 Masked Palm Civet, 1 Malayan Flying Squirrel, 1 Leopard Cat, 1 Ocelot, 1 Serval.
- LEWORTHY, Miss. 2 Red-crested Cardinals.
- LILY, Mrs. Eileen F. 1 Indian Silverbill.
- LONG, Mrs. 2 Algerian Tortoises.
- LOVERIDGE, Arthur, C.M.Z.S. 3 Timber Rattlesnakes, 1 Southern Bull Frog, 3 Painted Terrapins, 1 Musk Terrapin, 1 Snapping Turtle, 1 False Mocassin.
- LOVIBOND, G. Cannock. 1 South American Striped Lizard, 1 Spiny Scaled Lizard.
- LOW, Mr. 1 Carolina Crake.
- LUCKNOW, Prince of Wales' Zoological Gardens. 1 Axis Deer.
- LUXMOORE, Charles, F.S.A., F.R.G.S. 2 Ocelots, 1 Pigmy Marmoset.
- LYNCH, Sir Henry J., F.Z.S. 1 Tigrine Cat, 1 Imperial Boa, 1 Common Teguxin, 2 Squirrel Monkeys, 2 Lion Marmosets, 2 Negro Tamarins, 6 Common Boas.
- MACDONALD, Miss. 1 Tantalus Monkey.
- MACGREGOR, Mrs. Grant. 2 Grey Mongooses.
- McKINNON, Mrs. 1 Mona Monkey.
- MAGER, Mrs. B. B. 1 Green Monkey.
- MAHY, Miss Z., F.Z.S. 2 Hairy-footed Jerboas.
- MALLET, R. 1 Annulated Snake.
- MARSHALL, Mrs. C. M., F.Z.S. 1 Leopard.
- MASON, Charles (Trustee of the late Dan Mason). 2 Black Wallaroos, 1 Patagonian Cavy, 2 San-blas Jays, 1 Senegal Coucal, 3 Laughing Kingfishers, 1 White-backed Trumpeter, 1 Crested Black Bunting, 2 Saffron Finches, 1 Java Sparrow, 2 Crimson-eared Waxbills, 1 White-headed Mannikin, 1 Yellow Sparrow, 1 Zebra

Finch, 1 Golden-breasted Waxbill, 1 Lavender Finch, 1 Pin-tailed Whydah-bird, 2 White-backed Piping Crows, 3 Occipital Blue Pies, 2 Kagus, 2 Quail, 2 Red-crested Cardinals, 2 Rufous-necked Weaver-birds, 2 Mexican Barred Partridges, 1 Allen's Porphyrio, 1 Tambourine Dove, 1 Sclater's Crowned Pigeon, 1 White-winged Whydah-bird, 1 Greenfinch, 2 White-throated Finches, 1 Pileated Finch, 1 Greyish Finch, 2 Red-beaked Weaver-birds, 1 Madagascar Weaver-bird, 1 Green Singing Finch, 1 Common Fire Finch, 1 Dwarf Finch, 1 Nutmeg Finch, 3 Bronze-winged Mannikins, 1 Paradise Whydah-bird, 1 Taha Weaver-bird, 1 Orange Weaver-bird, 1 West African Ostrich, 2 Common Rheas (White var.), 1 Marabou Stork, 2 American Jabiru Storks, 2 Black Storks, 2 Sarus Cranes, 1 Grey Crane, 2 Black-beaked Crowned Cranes, 2 Demoiselle Cranes, 6 Black-tailed Parrakeets, 2 Quaker Parrakeets, 2 Senegal Parrots, 1 Jendaya Conure, 1 Golden-headed Conure, 1 Banded Parrakeet, 1 All-green Parrakeet, 1 Forsten's Lorikeet, 1 Alexandrine Parrakeet, 1 Illiger's Macaw, 2 Fischer's Lovebirds, 1 Black-cheeked Lovebird, 6 Budgerigars, 1 Boatbill, 1 South American Flamingo, 2 Spoonbills, 1 White Ibis, 1 Cattle Egret, 1 Night Heron, 1 Green-backed Porphyrio, 2 Grey-headed Porphyrios, 1 Red-fronted Coot, 1 Cayenne Rail, 1 Pileated Guan, 1 Red-tailed Guan, 1 Razor-billed Curassow, 1 Globose Curassow, 1 Common Peafowl, 1 Common Peafowl (White var.), 1 Reeves's Pheasant, 1 Beccari's Cassowary.

MATHIESON, Wilfred, F.Z.S. 1 Common Viper.

MATTERSON, Miss M. K. 1 Ring-tailed Coati.

MEERING, F. C. 2 Common Vipers, 6 Common Vipers, 1 Indian Python.

MENKE, C. W., F.Z.S. 1 Rhesus Monkey.

MERCHANT TAYLORS SCHOOL. 1 Heron.

MILLAR, J. H. 6 Pin-tailed Whydah-birds.

"MINNEWASKA," Officers of the S.S. 1 Peregrine Falcon.

- MONRO, H.E. General Sir C. C., Bt., G.C.B., G.C.S.I.,
G.C.M.G. 1 Barbary Ape.
- MORGAN, Mrs. H. R. Cope. 2 Senegal Chameleons.
- MUIR, Alexander, F.Z.S. 1 Matamata Terrapin.
- MUNDAY, E. 1 Green Monkey.
- MUSSON, W. A. J. 2 Bristly Ground-Squirrels.
- NERES, Louis P. 1 European Pond Tortoise.
- NEWINGTON, Mrs. Edward. 1 Common Fire-Finch.
- NEWMAN, Mrs. J. B. 2 Ceylonese Terrapins.
- NEWMARK, Masters G. H. and J. R. 2 European Pond
Tortoises.
- NEW YORK AQUARIUM. Garfish.
- NIND, Mrs. 1 Common Fire-Finch, 1 Common Waxbill,
2 Crimson-eared Waxbills, 2 Orange-cheeked Waxbills,
4 Avadavats, 2 Gray-headed Love-birds, 1 Budgerigar
(Yellow var.), 1 Budgerigar.
- NORTON, W. D. 1 Common Chameleon.
- O'BRIEN, Dr. R. A., C.B.E. 12 Leopard Frogs.
- OLLIER, Mrs. 1 Budgerigar.
- ORREN, Major R. N. 1 Burnett's Monkey.
- OSBORNE & YOUNG, Messrs. 2 Grey-headed Lovebirds,
1 Passerine Parrotlet.
- OSMAND, Gordon. 4 Bristly Ground-Squirrels, 1 Cape
Dormouse.
- OSWALD, N. A. 1 Common Viper.
- OWEN, Mrs. Williams. 1 Sloth Bear.
- PAICE, Harry. 1 Slowworm.
- PALMER, G., F.Z.S. 2 Wedge-tailed Fruit Pigeons, 2
Cayenne Rail.
- PAM, Major Albert, O.B.E., F.Z.S. 1 Green Glossy Starling,
1 Superb Glossy Starling, 1 African Red-winged Star-
ling.
- PARK, Mrs. B. 1 Budgerigar, 1 Budgerigar (Blue var.).
- PARMENTER, L. 1 Budgerigar.
- PEOPLE'S LEAGUE OF HEALTH, THE. 1 Rhesus Monkey.
- PERKINS, Mrs. 1 Talapoin Monkey.

- PEROTT, Dr. 7 Budgerigars.
- PHILLIPS, Capt. C. W. 3 Pampas Cats.
- POLLOCK, Mrs. J. H. H. 1 Tantalus Monkey.
- PORTAL, Maurice, F.Z.S. 10 Harvest Mice.
- POULTON, Edward. 1 Slowworm.
- PRENTIS, Miss V. E. G. 1 Green Budgerigar.
- PRIOR, The Rev. Kenneth L. 1 Occipital Vulture.
- QUAINTELL, Miss Beatrice. 1 Algerian Tortoise.
- RALLI, Major J. R., F.Z.S. 1 Egyptian Gecko.
- RAMSAY, Miss. 2 Squirrel Monkeys.
- RAWLINS, Dr. M. L. 1 Common Fox.
- READ, Edward Bruce. 1 Bittern.
- READ, W. H. 1 Rhesus Monkey.
- READER, W. P. 1 Crested Grebe.
- REEVE, Capt. J. S., F.Z.S. 1 Tree Sparrow.
- RICCI, Mrs. 1 Ring-tailed Lemur.
- RICHARDS, Miss Eileen. 1 Leopard Cub.
- RIGDEN, Henry T. 1 Red-vented Bulbul.
- RITCHIE, Capt. A. R. A., M.C., F.Z.S. 2 Varied Dwarf
Mongoose.
- ROBERTS, Mrs. 1 Grey Parrot.
- ROBERTSON, J. 9 Red Jungle Fowl.
- ROBERTSON, Mrs. J. F. 1 Ducorp's Cockatoo.
- ROPER, Mrs. 1 Algerian Tortoise.
- ROSE, Alan. 2 Cut-throat Finches, 2 Long-tailed Grass
Finches, 2 Java Sparrows (White var.).
- ROSE, H. G. 4 Grass Snakes, 2 Slowworms, 1 Green Lizard,
1 Armoured Zonure.
- ROSS, Mrs. D. A. 1 Serval.
- ROTTENBURG, Miss Elizabeth and Master Tony. 1 Red-
crested Cardinal.
- RUMBO, M. Naughton. 1 Razor-billed Curassow.
- RUTTER, Miss. 1 Rhesus Monkey.
- ST. QUINTIN, W. H., F.Z.S. 5 Three-toed Scinks, 1
Bibron's Gecko, 1 Hooded Crane.

- SANDERSON, J. R., F.Z.S. 1 White-spotted Squirrel,
2 Senegal Touracous, 1 Bare-faced Fruit Pigeon,
1 Two-spotted Palm Civet, 1 Cane Rat, 1 Basilisk
Chameleon, 1 Bronze-collared Dove.
- SCOTT, Miss. 1 Flap-necked Chameleon.
- SCOTT, Peter M., F.Z.S. 1 Red-legged Partridge, 1 Redpoll.
- SEACOMBE, Miss Dorothy. 1 Brown Capuchin.
- SELBY, Mrs. H. O. 1 Pin-tailed Whydah-bird.
- SENNETT, Mrs. 1 Dwarf Chameleon.
- SENNETT, R. H. 2 Masked Lovebirds.
- SHAKSPEARE, W., F.Z.S. 4 Ceylonese Jungle Fowl,
2 Layard's Parrakeets.
- SHEPHERD, T. H. W. 1 Little Owl.
- SHEPPARD, Thomas, M.Sc. 1 Eyed Scink, 1 Marsh-Harrier,
1 Delalande's Gecko.
- SHERRIFF, Albert, F.Z.S. 2 Mexican Barred Partridges.
- SIBUNS, G. 1 Canary Island Tree Frog.
- SICH, H. L. 3 Black-breasted Bustard Quail.
- SIGNALS, "A" CORPS. 1 Llama.
- SILLEM, Richard. 1 Melba Finch.
- SIMPSON, T. W. 1 Pied Babbler.
- SKEAPING, J. R., F.Z.S. 4 Barbary Turtle Doves, 1 Bar-
bary Turtle Dove (albino), 2 Jungle Bush Quail.
- SMILEY, Lady. 1 Hybrid Black-cheeked \times Nyasa Love-
bird.
- SMITH, A. St. Alban, F.Z.S. 1 Malayan Palm Civet,
3 Plantain Squirrels, 2 Prevost's Squirrels, 2 Hama-
dryads, 1 Binturong, 1 Slow Loris, 1 Oriental Eagle-
Owl, 1 Malay Fish-Owl, 8 Java Sparrows, 1 Indian
Cobra, 1 Three-marked Palm Civet, 1 Malaccan Civet,
1 Yellow-throated Marten, 3 Fin-tailed Lizards, 1
Rough-necked Monitor, 1 Red-marked Burrowing
Snake, 2 Dog-faced Water Snakes, 1 Painted Tree
Snake, 1 Eight-lined Snake.
- SOWERBY, Mrs. Q. 1 European Pond Tortoise.
- SPEED, Hedley. 3 Green Singing Finches.

- SPURWAY, Noel. 1 Common Viper.
- STANLEY, Capt. W. B., C.M.G., M.B.E., C.M.Z.S. 1 African Elephant.
- STEELE, Mrs. 1 Moustache Monkey.
- STEVENS, Mrs. A. J. 1 Humboldt's Woolly Monkey.
- STEVENSON, L., F.Z.S. 3 Common Dormice.
- STIRLING, Major R. 1 Nicobar Pigeon.
- STIRLING, W. G., F.Z.S. 1 Red-tailed Tree Snake, 3 Black Pit Vipers, 1 Temple Viper, 1 Blood Python, 1 Reticulated Python, 1 Indian Cobra, 1 Emerald Tree Snake.
- STOKES, Capt. H. S., M.C., F.Z.S. 3 Sooty Rails, 1 White-capped Flycatcher, 2 Red-faced Barbets, 2 Indian Coursers, 2 Crimson-crowned Weavers, 2 Yellowish Weavers, 1 Brown-backed Robin, 1 Toco Toucan, 2 Lilac-crowned Fruit Pigeons.
- STOREY, A. J. 1 Tocard Toucan, 2 White-tailed Jays.
- STREET, Miss M. J. 1 Common Macaque.
- SUSSMAN, Miss Madeleine. 1 Budgerigar.
- SUTCLIFFE, Albert, F.Z.S. 2 Budgerigars (Cobalt var.)
1 Budgerigar.
- SWETE, Lyle. 1 Common Toad.
- SYKES, J. M. 1 Common Macaque.
- TANGIER TENT CLUB. 1 Wild Boar.
- TAYLOR, W. F. 2 Little Owls.
- THATCHER, Mrs. M. E. 1 Roseate Cockatoo.
- THOMAS, The Rt. Hon. J. H., P.C., M.P. 1 Lesser White-nosed Monkey.
- THOMAS, Miss M. 1 Malbrouck Monkey.
- THOMPSON, Mrs. K. 1 Caspian Terrapin.
- THOMSON, Miss C. F. 1 Gold Pheasant.
- TICKNER, H. W. 1 Barbary Turtle Dove.
- TOWNSEND, Mrs. 1 Razorbill.
- TUCKETT, Miss A. 2 Flap-necked Chameleons.
- TURNER, Martin J. 1 Algerian Tortoise.

- TWIST, Cecil J. 1 Common Stoat, 1 Common Rabbit
(Black var.).
- TYRRELL, Mrs. Gertrude. 1 Lesser White-nosed Monkey.
- UPSTONE, G. C. 1 White-spotted Squirrel, 1 Bay Duiker,
1 Hobby.
- VENNER, The Rev. P. K., F.Z.S. 2 Forsten's Lorikeets.
- VEREY, Mrs. A. F., F.Z.S. 1 Rook.
- WAIT, Miss. 1 Nonpareil Bunting.
- WAITE, D. P. 1 White-nosed Coati.
- WALKER, Geoffrey R. 2 Shaw's Gerbilles, 2 Kangaroo
Rats, 1 American Flying Squirrel, 1 Grey-headed
Lovebird.
- WARNER, Mrs. E. 1 Common Marmoset.
- WARREN, R. P. 1 Two-spotted Palm Civet.
- WARWICK, The Dowager Countess of, F.Z.S. 1 Brown
Capuchin.
- WATHON, Stanley W. 1 Common Wolf.
- WAVERTREE, Lady, C.B.E. 2 Mexican Barred Partridges.
- WEBB, J. G. 1 Smooth Snake.
- WEBB, Mrs. 2 Passerine Ground Doves.
- WHITBY, Mrs. 4 Adorned Terrapins.
- WICKHAM, Capt. G. V., F.Z.S. 2 Arabian Hedgehogs.
- WILLIAMS, C. D. Crayfish.
- WILLIAMS, Stanley, F.Z.S. 1 Banded Mongoose.
- WILLIAMS, W. L., F.Z.S. 2 Common Foxes.
- WILSON, Mrs. E. P. 1 Red-headed Cardinal.
- WINDHAM, Lady Edith. 2 Sallé's Parrots.
- WING, Bernard. 1 Vulpine Opossum.
- WISDOM, Mrs. 1 Delalande's Gecko.
- WISEMAN, A. 1 Rhesus Monkey.
- WOOD, Mrs. M. F., F.Z.S. 2 Green Lizards, 1 Indian
Shama.

WOODWARD, Stanley F. 1 Lesser White-nosed Monkey,
1 African Civet Cat, 1 Ground Rat, 1 Gambian
Squirrel, 1 Senegal River Turtle, 1 Royal Python,
1 Herald Snake, 4 Orange-flanked Scinks, 1 Odd-scaled
Snake, 9 Common Agamas.

WORKMAN, Mrs. 1 Brown Capuchin.

WORTHINGTON, E. B. 12 African Lung Fish.

YATES, A. 1 Senegal Chameleon.

54. STATE OF THE FINANCES.—The Report of the Auditors of the Accounts for 1928 is issued to Fellows, bound with this Report.

55. ASSETS 1927 AND 1928.—At the end of the year the total Assets of the Society amounted to £142,258 9s. 9*d.*, a decrease of £1,878 19s. 10*d.* on the corresponding figure for 1927. The reduction is more than accounted for by the realisation of part of the Refreshment Room Renewals Fund, which had outgrown its purpose, for special works in the Gardens.

56. PENSION FUND.—The Pension Fund, instituted in 1926, increased in 1928 by £525, being the amounts of the composition fees of five compounders who had died in the course of the year, and a contribution of £300 from the General Funds of the Society.

57. LIABILITIES 1927 AND 1928.—The liabilities amounted to £13,688 10s. 3*d.*, a decrease of £738 11s. 4*d.* on the corresponding figures for 1927.

58. BALANCE 1927 AND 1928.—The balance, a surplus of assets over liabilities, amounted to £128,569 19s. 6*d.*, a decrease of £1,140 8s. 6*d.* on the corresponding figure for 1927, representing the difference between the decrease in assets (paragraph 55) and decrease in liabilities (paragraph 57).

59. INCOME 1927 AND 1928.—There was again a net increase in income, amounting to £5,613 16s. 8*d.*, due largely to gate-money.

60. EXPENDITURE 1927 AND 1928.—There was a total increase of £8,729 15s. 8d. in expenditure, made possible by the Society's prosperity.

61. WHIPSNADDE.—This new head of expenditure appears in the Accounts for the second time. The cost of purchase appears in the Balance Sheet, under Assets, as an investment of part of the Life Composition Fund. The details are set out in the Account, and it will be seen that they relate to the development of the Estate.

62. LEGACIES AND DONATIONS.—In 1928 the Society received a legacy of £50 from the late Colonel J. W. Yerbury. In accordance with the wishes stated in a letter written many years ago to the Secretary by the testator, this is being spent on the library chiefly in the purchase of books dealing with Entomology. The late Mr. F. H. T. Streatfeild, F.Z.S., also bequeathed the sum of £300 without specifying an object. The Council employed it in erecting a shelter near the new Bird House, called the Streatfeild Shelter.

63. 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 Bye-laws, the arrangement and supervision of the Society's Scientific Publications.

64. 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.

Zoological Society,

Regent's Park,

London, N.W.8.

March 20th, 1929.

REPORT OF THE COMMITTEE OF AUDITORS OF THE ACCOUNTS

OF THE

ZOOLOGICAL SOCIETY

OF LONDON,

APPOINTED 16th JANUARY, 1929.

To

28th February, 1929.

The Zoological Society of London,
Regent's 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, 1928, as presented to us by Messrs. W. B. Keen & Co., the Chartered Accountants appointed to assist us in our duties. We report to the Society that at that date the Total Assets amounted to £142,258 9s. 9d., and the Liabilities to £13,688 10s. 3d. The General State of the Funds of the Society therefore showed a surplus of Assets over Liabilities amounting to £128,569 19s. 6d., subject to the estimated values of some of the Assets. The Cash in the Bankers' hands and at the Office amounted to £13,156 15s. 8d.

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 52 weeks to 29th September, 1928, 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) F. J. AYRE (*Chairman*).
E. HOWARD COLLINS.
DOUGLAS DEWAR.
S. R. F. FREED.
SYDNEY A. KEMP.
ALBERT SHERRIFF

Corresponding figures 31st Dec., 1927.		LIABILITIES.		Corresponding figures 31st Dec., 1927.	
£	s. d.	£	s. d.	£	s. d.
9,699	13 4	To Sundry Creditors for Rates, Taxes, Printing, &c.		8,968	3 8
707	12 2	„ Subscriptions &c., received in advance ...		699	12 5
900	0 0	„ Aquarium Tickets sold and unused—Estimated		550	0 0
		„ Reserve for Cost of “Zoological Record” being special donations towards Vols. 59 and onwards			
		—Balance at 1st January, 1928 ...	1,111 11 10		
		Add Donations received during year ...	366 3 11		
			<u>1,477 15 9</u>		
		Deduct Amount transferred to Income and Expenditure Account during year towards cost of Vol. 64 ...	540 5 10		
1,111	11 10			937	9 11
		„ Pensions Fund—			
		Amount set aside from Composition Funds—			
		Balance at 1st January, 1928 ...	2,008 4 3		
		Add—Contribution during year ...	300 0 0		
		„ Further transfer to 31st December, 1928, of Fees of deceased Compounders. ...	225 0 0		
2,008	4 3			2,533	4 3
		„ Balance, being Excess of Assets over Liabilities :—			
		Composition Funds—			
		Balance at 1st January, 1928	£15,735 0 0		
		Add 20 Fees @ £45 received during year ...	900 0 0		
			<u>16,635 0 0</u>		
		Less Transferred to Pensions Fund ...	225 0 0		
15,735	0 0			16,410	0 0
		Animals Purchase and Insurance Fund—			
		Balance at 1st January, 1928	£3,032 9 11		
		Add—Contribution during year ...	200 0 0		
		„ Interest received from Investments ...	126 5 8		
3,032	9 11			3,358	15 7
		Aquarium Reserve Fund—			
		Balance at 1st January, 1928	3,750 0 0		
		Add Contribution during year	1,000 0 0		
		„ Receipts per sale of Ivory Tickets during year...	10 0 0		
			<u>4,760 0 0</u>		
		Deduct—Expenditure on Cost of Refrigerator ...	516 0 0		
3,750	0 0			4,244	0 0
£36,944	11 6	Carried forward ...	£24,012 15 7	£13,688	10 3

Corresponding figures 31st Dec., 1927.		ASSETS.		Corresponding figures 31st Dec., 1927.	
£	s. d.	£	s. d.	£	s. d.
		By Freehold Property—Whipsnade Estate—			
		Cost of Land and Buildings, including Redemption of Land Tax and Tithes ...	13,480 12 10		
		(see Investment of Composition Funds, below)			
		„ Fittings and Furniture in Buildings and Enclosures at the Gardens, Regent's Park (not valued) ...			
		„ Animals belonging to the Society—			
		As at 1st January, 1928 ...	34,736 0 0		
		Add Net Increase at 31st December, 1928 ...	1,180 0 0		
34,736	0 0			35,916	0 0*
2,122	2 11	„ Plant and Fittings in Refreshment Department		2,122	2 11*
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 Records” ...		500	0 0*
381	10 1	„ “ Electrical Stores (at cost) ...		416	11 9
400	0 0	„ “ Official Guides and P.P. Cards (at cost)		300	0 0
11	16 0	„ “ Photographic Films, &c. ...		12	8 3
		„ Debts due to the Society (since received or considered good)—			
		Arrears of Fellowship Subscriptions, £497 14s., estimated to realise ...	100 0 0		
75	0 0	Arrears of Fellowship Admission Fees, £275, estimated to realise ...	220 0 0		
300	0 0	Arrears of Subscriptions to “Zoological Record” ...	120 19 6		
220	4 6	“Zoological Record” Sales ...	352 17 1		
254	18 6	Publication Sales ...	210 0 0		
250	0 0	Garden Sales ...	209 13 5		
228	3 0	Cinematograph Royalties ...	6 3 4		
6	3 4	Rent of Whipsnade Hall Farm ...	107 2 4		
74	12 0	Miscellaneous ...		1,326	15 8
103	17 4			542	14 5
531	13 1	„ Rates and Insurance paid in advance ...		122	10 6
120	8 0	„ Compilation Fees, etc., paid in respect of “Zoological Record” Vol. 65 not yet published ...		2,533	4 3
1,918	4 3	„ Investment of Pensions Fund, at Cost—			
		£3,349 19s. 6d. 3½ per cent. Conversion Stock			
		„ Investment of Composition Funds, at Cost—			
		Whipsnade Estate (Purchase Price) ...	13,480 12 10		
		£254 14s. 9d. London County 3½ per cent. Stock ...	254 0 10		
		£3,228 7s. 9d. 3½ per cent. Conversion Stock...	2,315 6 4		
15,600	0 0			16,050	0 0
£86,815	8 0	Carried forward ...		£88,823	2 9

* As per Valuations by Society's Officials.

Corresponding figures, 31st Dec., 1927.		LIABILITIES.			
£	s. d.	£	s. d.	£	s. d.
36,944	11 6	Brought forward ...	24,012 15 7	13,688	10 3
To Balance, being Excess of Assets over Liabilities—continued.					
Depreciation of Investments Reserve Fund—					
Balance at 1st January, 1928		2,023	5 10		
Less—Net Loss on Realisation of Investments during year ...		486	17 4		
2,023	5 10			*1,536	8 6
Refreshment Dept.—Plant and Renewals Fund—					
Balance at 1st January, 1928		4,505	7 4		
Add Further Transfer from Profit for 52 weeks to 29th Sept., 1928, to be paid over ...		300	0 0		
Amount retained for working capital ...		300	0 0		
		5,105	7 4		
Deduct—Transfer to Extraordinary Expenditure during year ...		3,750	0 0		
4,805	7 4			1,355	7 4
Centenary Celebration Fund—					
Balance at 1st January, 1928		895	3 6		
Add—Contributions during year		200	0 0		
Dividends on Investment		44	14 7		
		1,139	18 1		
Deduct—Expenditure on Centenary Volume during year ...		175	0 0		
895	3 6			964	18 1
General Purposes—					
Balance at 1st January, 1928		99,469	1 5		
Add—Increase in value of Animals in Menagerie and Aquarium		1,180	0 0		
Excess of Income over Expenditure during year ...		13,743	4 8		
		114,392	6 1		
Deduct—Temporary advance to Refreshment Dept. New Building Account †		13,691	16 1		
99,469	1 5			100,700	10 0
				128,569	19 6
£144,137 9 7		£142,258 9 9			

NOTE.*—At Minimum Stock Exchange Quotations at 31st December, 1928, the Securities held were valued at £45,986 16 5 shewing an Appreciation of £1185 13 8 on original cost.
† A Loan of £45,000, to be taken up during 1929, has been arranged with the Society's Bankers to meet the cost of the Refreshment Department's new Building.

Corresponding figures, 31st Dec., 1927.		ASSETS.			
£	s. d.	£	s. d.	£	s. d.
86,815	8 0	Brought forward ...	88,823	2 9	
By Investment of Animals Purchase and Insurance Fund, at Cost—					
£5,847 18s. 11d. 2½ per cent. Consolidated Stock ...		3,350	0 0		
2,900	0 0				
" Investment of Aquarium Reserve Fund, at Cost—					
£4,369 10s. 9d. 4½ per cent. Conversion Stock ...		4,244	0 0		
3,710	0 0				
" Investment of Depreciation of Investments Reserve Fund, at Cost—					
£2,194 2s. 11d. 3½ per cent. Conversion Stock ...		1,536	8 6		
2,023	5 10				
" Investments on Account of Refreshment Department Plant and Renewals Fund, at Cost—					
£1,019 5s. 1d. 3½ per cent. Conversion Stock ...		755	7 4		
4,205	7 4				
" Investment of Centenary Celebration Fund, at Cost—					
£951 8s. 6d. 5 per cent. War Stock ...		964	18 1		
895	3 6				
" Refreshment Department Current Assets at 31st December, 1928—					
To be Invested ...		300	0 0		
Retained for Working Capital ...		300	0 0		
600	0 0			600	0 0
" Investment, General Fund—					
£30,373 1s. 3d. 4 per cent Treasury Bonds 1931-33 ...		28,827	17 5		
30,830	1 2				
" Cash at Bank—					
General Account ...		2,611	4 6		
3,664	3 4			10,000	0 0
Deposit Account ...		360	0 0		
8,000	0 0				
Compositions Funds ...		8	15 7		
135	0 0				
Animals Purchase and Insurance Fund ...		—	—		
132	9 11				
Aquarium Reserve Fund ...		—	—		
40	0 0				
Pensions Fund ...		176	15 7		
90	0 0				
96	10 6			13,156	15 8
" Cash in Office ...					
£144,137 9 7		£142,258 9 9			

INCOME AND EXPEN

FOR THE YEAR ENDED

Corresponding
figures,
31st Dec., 1927.

INCOME.

£	s.	d.		£	s.	d.	£	s.	d.
3,290	0	0	Admission Fees (Fellows)				3,180	0	0
19,704	9	0	Subscriptions (Fellows and Corresponding Members)			20,989	19	0	
790	1	4	Dividends and Interest received			1,523	6	11	
			Income Tax (deducted from Dividends) recovered						
264	6	4	during year			701	18	11	
1,000	0	0	Rent of Refreshment Rooms			1,000	0	0	
74	12	0	Rent of Whipsnade Hall Farm			138	0	0	
11	0	0	Rent of Bath Chairs			11	0	0	
68,432	14	8	Admissions to Gardens	17,740	8	9	71,655	17	11
			Admissions to Aquarium						
			Dividend received from Aquarium Reserve Fund						
			Investment	129	11	9			
19,009	16	11	Riding Receipts			17,870	0	6	
3,006	17	9	Sale of Animals, &c.			3,013	17	2	
217	14	2	Sale of Garden Guides and Picture Post Cards			499	13	3	
3,986	14	10	Sale of Aquarium Guides			4,975	19	9	
100	13	6	Sale of Photographic Films and Cameras			86	15	0	
487	11	10	Sale of Transferable Ivory Tickets and Photo-			595	14	11	
			graphers Permits						
166	17	6	Sale of "Zoological Record"—			111	12	6	
			Vols. 59 to 63 (inclusive)	279	19	5			
			" 64	205	18	8			
			Vol. 58 and previous Volumes	485	18	1			
860	19	3	Subscriptions to "Zoological Record"—	294	0	5	779	18	6
			Old Vols.	2	10	0			
			Vols. 59 to 63 (inclusive)	39	5	0			
			" 64	374	18	7			
812	0	0	Subscriptions to Publications			416	13	7	
560	11	0	Sale of Publications			565	16	0	
633	6	5	Royalties from Cinematograph Films, etc.			457	7	3	
6	3	4	Lavatory Receipts						
856	7	7	Refreshment Department Profit to 29th September,			910	13	9	
			1928						
18,400	0	0	Miscellaneous Receipts			18,800	0	0	
2	5	0				4	14	0	
			Carried forward						
£142,675	2	5		£148,288	19	1			

DITURE ACCOUNT.

31st DECEMBER, 1928.

Corresponding
figures,
31st Dec., 1927.

EXPENDITURE.

£	s.	d.		£	s.	d.	£	s.	d.	
2,649	13	8	Rent, Rates, Taxes and Insurance, Gardens				2,586	12	3	
4,208	14	0	Income Tax (Schedule D)				3,418	19	0	
224	6	0	Do. Refreshment Department (Schedule A)				224	6	0	
19,562	0	2	Salaries, Staff and Keepers, Gardens				21,097	17	5	
4,679	16	2	Do. Office				5,474	12	0	
			Pensions, Gardens			1,703	6	8		
			Do. Office			397	0	0		
						2,100	6	8		
			Less Dividends on Pension Fund Investments			75	13	10		
2,088	10	0								
13,846	6	6	Provisions, including Storekeeper's Wages					2,024	12	10
			Cost and Carriage of New Animals			4,975	6	4		
			Add Contribution to Animals Purchase and							
			Insurance Fund			200	0	0		
5,693	4	9						5,175	6	4
			Menagerie Expenses:—							
£1,676	19	4	Fuel			1,365	18	10		
354	19	8	Straw			440	14	6		
1,259	10	11	Water			1,541	9	4		
41	12	2	Upkeep of Well							
595	2	11	Keepers' Uniforms			609	17	2		
450	6	4	Tools, Implements, Fittings, &c.			460	16	11		
254	17	9	Labels and Drawings			360	19	11		
163	16	1	Sand, Sawdust, Turf, &c.			188	13	7		
74	4	11	Medical Attendance			124	7	4		
183	9	0	Sanatorium and Veterinary Expenses			159	3	6		
88	14	5	Cart repairs, Saddlery, &c.			58	12	3		
654	16	10	Upkeep of Motors (Net Cost)			207	9	8		
492	8	1	Cleaning Materials and Disinfectants			536	4	0		
31	0	0	Police Attendance			31	7	0		
1,164	4	6	Electricity—New Reptile House			2,128	10	10		
			" New Monkey House			705	5	9		
612	14	8	Electricity and Gas—Other Houses			288	4	8		
38	1	0	Electrical Sundries			71	15	6		
29	13	7	Garden Seats			17	18	1		
55	10	1	Sundries			84	3	4		
						9,381	12	2		
8,222	2	3	Less—Donation from Miss							
			Reckitt							
8,122	2	3						9,381	12	2
			Aquarium Maintenance:—							
1,012	1	1	Cost and Carriage of Fish			1,089	3	6		
284	18	8	Provisions			230	10	0		
3,167	14	2	Salaries and Wages			3,449	4	0		
491	4	6	Fuel			493	8	0		
1,130	8	1	Gas and Electricity			1,145	15	2		
58	12	10	Rates, Taxes and Insurance			35	5	6		
			Carried forward			£6,443	6	2		
£61,074	13	6		£6,144	19	4	£64,615	19	0	

INCOME AND EXPEN

Corresponding
Figures,
31st Dec., 1927.

INCOME.

£	s.	d.		£	s.	d.
142,675	2	5	Brought forward	148,288	19	1
<hr/>						
£142,675	2	5	Carried forward	£148,288	19	1

DITURE ACCOUNT—continued.

Corresponding
Figures,
31st Dec., 1927.

EXPENDITURE.

£	s.	d.		£	s.	d.		£	s.	d.		£	s.	d.		
61,074	13	6	Brought forward	6,144	19	4	Brought forward	6,443	6	2	64,615	19	0			
<hr/>																
Aquarium Maintenance—continued.																
			83	18	4	Sea Water					137	18	11			
			1	9	7	Glass for Tanks, etc.					5	14	11			
			189	5	10	Electrical Sundries					191	14	11			
			226	5	4	Upkeep of Plant and Machinery					371	1	1			
			64	0	2	Tools, Utensils, etc.					96	5	0			
			175	10	5	Repairs, Materials, Fittings, etc.					255	15	1			
			95	14	0	Labels					73	9	0			
			40	0	3	Sand and Shingle					12	2	3			
			3	15	0	Printing Tickets					—					
			72	0	0	Advertising					70	5	6			
			37	16	0	Uniforms					40	6	5			
			31	16	6	Sundries					14	18	0			
			262	10	0	Research Fellowship—Salary					335	8	4			
			10	15	2	Do. —Apparatus					37	12	7			
7,439	15	11												8,085	18	2
<hr/>																
Prosectorium Expenses:—																
			954	8	9	Salaries					1,236	13	3			
			238	12	8	Chemical Apparatus, &c.					205	2	1			
1,193	1	5												1,441	15	4
<hr/>																
Works Department: Upkeep of Buildings, Paths, &c., in Gardens, Regents Park:—																
			5,441	12	2	Wages					8,072	11	11			
			4,186	9	4	Materials, &c.					5,887	15	5			
											13,960	7	4			
<hr/>																
Less—Legacy from the late F. H. T. Streatfeild F.Z.S.																
											300	0	0			
9,628	1	6												13,660	7	4
<hr/>																
Upkeep of Whipsnade Estate:—																
			46	18	2	Wages					1,289	5	9			
			144	0	6	Repairs to Buildings					886	18	7			
			41	13	7	Fencing, Hedging and Ditching					291	13	2			
			6	16	0	Clearing Refuse from Land					—					
			38	19	2	Repairs to Roads and Paths					86	14	0			
			22	0	0	Compensation to Tenants					718	17	6			
			24	10	3	Legal Expenses re Lease of Hall Farm					—					
			—			Survey Expenses					588	8	4			
			—			Workshops					68	12	11			
			2	1	9	Tools and Implements					185	7	6			
			—			Trees, Plants and Gardeners Expenses					219	3	1			
			—			Provisions					7	19	6			
			—			Fuel					17	18	0			
			30	4	0	Rates, Taxes and Insurance					123	9	8			
			—			Telephone Rental and Calls					14	5	8			
			—			Freightage and Travelling Expenses					203	15	9			
			11	3	11	Miscellaneous					43	3	11			
368	7	4												4,745	13	4
£79,703	19	8												£92,549	13	2

INCOME AND EXPEN

Corresponding
Figures,
31st Dec., 1927.

£ s. d.

142,675 2 5

INCOME.

Brought forward

£ s. d.
148,288 19 1

£142,675 2 5

Carried forward

£148,288 19 1

DITURE ACCOUNT—continued.

Corresponding
Figures,
31st Dec., 1927.

£ s. d.
79,703 19 8

EXPENDITURE.

£ s. d.

£ s. d.
92,549 13 2

Brought forward

Gardeners' Expenses:—

3,279 1 7 Wages

779 14 11 Seeds, Plants, Implements, &c.

4,058 16 6

3,651 10 6
1,077 12 9

4,729 3 3

329 1 2

Fuel, Light, etc., at Resident Curator's and Keepers' Offices and Houses at Gardens

458 17 3

House and Office Expenses, Central Offices:—

£ s. d.

Wages of Housekeeper, Servants and Messengers

620 12 5

644 8 5

23 19 6

Uniforms

37 6 11

206 0 4

Fuel, Light and Water

130 3 5

109 18 1

Telephone

116 15 8

442 5 10

Postages, Parcels, etc.

450 14 4

Refreshments at Scientific Meetings, etc.

43 15 6

53 0 2

Rates, Taxes and Insurance

291 8 3

301 19 3

Books of Reference

17 1 1

25 19 0

Repairs, Office Fittings and Appliances

325 11 11

322 0 7

Sundries

157 14 5

72 3 4

2,214 19 11

2,177 18 6

Cinematograph Expenses

14 6 4

Library Expenses:—

703 16 7

Salaries

765 0 0

735 10 11

Books and Binding, etc.

910 13 2

1,675 13 2

Less—Legacy from late Col. J. W. Yerbury, F.Z.S.

50 0 0

1,625 13 6

1,439 7 6

Band Expenses

547 13 6

Advertisements

418 0 6

Stationery and Miscellaneous Printing

1,437 3 3

Garden Guides and Picture Post Cards: Preparation and Printing of

1,460 15 1

Aquarium Guides: Preparation and Printing of

50 12 7

"Zoological Record," Preparation and Printing of Volume 64

Add Expenditure re previous Vols.

Deduct Transfer from Davis Fund

" Transfer from Donations Reserve Account

60 16 0
540 5 10

1,940 7 6
10 11 0

1,950 18 6

601 1 10

1,349 16 8

1,797 17 7

2,760 19 10

Publications, Cost of

342 9 1

Photographic Films and Cameras, Cost of

9 18 11

Law Expenses and Compensation

179 0 0

Scientific Grants

2,591 3 3

418 18 8

461 18 8

87 0 0

£110,526 14

£96,728 0 0

Carried forward

INCOME AND EXPEN

Corresponding figures 31st Dec., 1927.

INCOME.			
£	s. d.	£	s. d.
142,675	2 5	Brought forward	148,288 19 1
£142,675 2 5		£148,288 19 1	

DAVIS

£1,520 Southern Railway

£60 16 0 Dividends £60 16 0

We hereby certify that we have audited the Books, Accounts and Vouchers of the and that the above Balance Sheet and accompanying Income and Expenditure truly set forth the position as shown by the Books of the Society. We have verified explanations we have required.

23, Queen Victoria Street, London, E.C. 4,
28th February, 1929.

DITURE ACCOUNT—continued.

Corresponding figures 31st Dec., 1927.

EXPENDITURE.			
£	s. d.	£	s. d.
96,728	0 0	Brought forward	110,526 14 7
3 14 6	Medals, Cost of		
6 15 1	Miscellaneous Expenses		8 11 6
1,000	0 0	Contribution to Aquarium Reserve Fund	1,000 0 0
200	0 0	" Centenary Celebration Fund	200 0 0
		" Pensions Fund	300 0 0
			1,500 0 0
Expenditure on Special Works:—			
		Construction of Monkey House (balance)	1,799 1 4
		Rebuilding Bird House (balance)	4,418 16 3
		Construction of New Reptile House	1,256 16 2
		" " " Tortoise House	1,158 8 4
		Extension to Hippo. House (balance)	511 7 1
		" " Tapir House	597 12 9
		Model, New Parrot House	148 6 1
		Resurfacing Ostrich House path	154 6 10
		" Roads in Gardens	874 10 9
		Contribution re Boundary Fence	411 4 9
		Rebuilding Main Gate	6,874 12 1
		Renewal of Drains	350 4 2
Whipsnade Estate—			
		Construction of Well	£ 325 17 0
		" " Reservoir	2,704 19 0
		Boundary Fencing	2,400 17 1
		Construction of Roads	38 12 0
		Purchase of Land	91 0 0
		Award to Eaton Bray R.D.C.	187 0 0
		Promotion of Act of Parliament	1,848 0 10
		Sundry Materials, etc.	108 15 10
			7,705 1 9
			26,260 8 4
Deduct—Transfer from Refreshment Dept.			
		Renewals Fund	3,750 0 0
27,877	9 2		22,510 8 4
16,859	3 8	Balance, being excess of Income over Expenditure for year, carried to Balance Sheet	13,743 4 8
£142,675 2 5		£148,288 19 1	

TRUST FUND.

5 per cent. Preference Stock.

£60 16 0 Applied towards Fees of Editor of "Zoological Record" £60 16 0

Society for the year ended 31st December, 1928, and have found them to be in order Account have been drawn up in strict conformity therewith and that they fully and the Investments and the Cash Balances, and have received all the information and

W. B. KEEN & Co.,
Chartered Accountants.