

REPORTS

OF THE

COUNCIL AND AUDITORS

OF THE

ZOOLOGICAL SOCIETY

OF LONDON,

FOR THE YEAR 1934,

PREPARED FOR THE ANNUAL GENERAL MEETING

TO BE HELD ON

MONDAY, APRIL 29TH, 1935,

AT 4 P.M.

PRINTED BY

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LONDON, DUNSTABLE & WATFORD.

1935.

MEETINGS FOR SCIENTIFIC BUSINESS, At Half-past Five o'clock p.m. (5.30 p.m.)Tuesday, February ... 5 & 19 March 5 & 19 April 2 & 16 May 7 & 21 June 4 October ... 22 November... 5 & 19 MEETINGS FOR GENERAL BUSINESS, At Half-past Four o'clock p.m. (4.30 p.m.) WEDNESDAY, January 16 February 20 March ... 20 April ... 17 Monday, April 29, at 4 p.m. (Anniversary Meeting). (Annual Report and Election of Council and Officers.) WEDNESDAY, May 15

Fellows of the Society are invited to attend the above Meetings held at the Offices in the Zoological Gardens.

June

July ...

August

December

November

19

17

21

20

18

INDEX TO CONTENTS.

					PAGE
Accounts and State of Finances			 	89	9-103
Additions to Collection, 1932-1934	4	·	 		59
Admission to Gardens			 	8	34-37
Anatomy			 		32
Animals and Cinema Films			 		13
Animals, bred in 1934			 	{	59-66
,, Numbers of			 		58
Annual General Meeting			 		5
Aquarium			 		38
,, Research Fellowship			 		39
,, Rules for Admission			 		38
" Visitors in 1934			 		38
Auditors, Report of, for 1934			 		89
Band			 		43
Bequests to the Society			 		88
Biology Students, Rules for Admi	ssion		 		36
By-laws			 		46
Centenary Volumes, Reduction in	Price		 		6
Chillingham Cattle			 		56
Cinema Films]	13-15
Commissariat			 	57 aı	nd 58
Corresponding Membership			 		7
,, ,, New			 	88	and 9
De Arroyave Fund			 	44 ar	nd 87
Donors and their Donations, 1934			 	'	72-86
Electrical Department			 		43
Evening opening of Gardens			 		37
Exchange List			 		21
Fauna Society			 		12
Fellows and Members, List of			 		12
Fellows, Roll of			 		6
Finances, State of			 	86 ar	nd 87
Foreign Membership			 		7
Gardeners' Department			 		40

INDEX TO CONTENTS-continued.

								PAGE
Garden Guide and Pi	icture 1	Postcar	ds					20
Gardens, Rules for A	dmissi	on						34
,, Visitors to								34
Grants, Scientific						***	111	12
Helminthology								33
Huxley, Mr. J. S.								9
Insect House	***			***				39
Isolation Ward					***			33
Legacies					111	***		88
Library			***			***	115	22-27
Loan of Society's Ro	oms					***	1.5.4	12
Medical Attendance					***			39
Meetings, Scientific								15
Menagerie								56
Mitchell, Sir Peter Ch	almers							9-11
" Nomenclator Zoolog	gicus "							20
Ophthalmology								34
Pathology								27-32
Penguin Pond								43
Pensions Fund								87
Plymouth, Marine Bi	ologica	l Labo	ratory					15
Portrait of Secretary								11
Prosectorium								27
Publications, Scientif								15
,, ,,		hange l						21
"Record"								16-19
Refreshment Departr								44
Research Fellowship							32 8	nd 39
Sanatorium					.9%			33
Schools, Rules for Ad								36
Secretaryship								and 10
Species New to Collect					***			66-72
Thursday Evenings								37
Whipsnade Zoological				***	***	***		45-55
Wanlan								
"Zoological Record		***						40-43
Zoological Record		***	***		***		* * *	16-19

REPORT OF THE COUNCIL

for the year ended 31st December, 1934.

ANNUAL GENERAL MEETING.

- 1. The Council has pleasure in presenting the hundred and sixth Annual Report to the General Meeting of the Society, to be held on Monday, April 29th, 1935, at 4 p.m., at the Offices of the Society, in the Gardens, Regent's Park, N.W.8.
 - 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. Centenary Volumes.—The following volumes, prepared for the Centenary, are now on sale at the Office at reduced prices:—

Centenary History of the Zoological Society of London.
With many Portraits. Written by the Secretary.
Price 10s. net.

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, the habitat, 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. Price 10s. net. Vol. II.—Birds. By George Carmichael Low, M.A., M.D., F.R.C.P., F.Z.S. Price 10s. net. Vol. III.—Reptiles, Amphibians and Fishes. By Major Stanley Smyth 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 10s. net.

4. Roll of Fellows.—The number of Fellows and Fellows-Elect on January 1st, 1934, was 7,920, and on January 1st, 1935, was 7,939. In 1934, 469 Fellows were elected or re-admitted as compared with 444 in 1933.

The Council would remind Fellows that the present financial stress affects the Society as well as individuals. They hope that Fellows who have resigned recently will apply for restoration to the List when no Admission Fee will be charged, and that existing Fellows will use efforts to obtain new members. Both ladies and gentlemen are eligible. The admission fee is £5, but this is remitted in the case of the husband or wife, widower or widow of a Fellow. The annual subscription is £3 but it may be compounded for

by a single payment of £45. Proposal forms can be obtained by application to the Secretary.

in Resemble (Division I., Resi-	ut bac	1933.	1934.
Compounders at £30 (Elected before Dec., 1906)	rollo	320	296
(Elected after Nov., 1906)	wlf .	398	402
Compositions remitted		11	11
Paying annually £3		6,877	6,902
Dormant (paying £1)		255	254
Do. subscriptions remitted		10	10
Admission Fees unpaid		49	64*
	-		6 Inul 1/
		7,920	7,939

- * This entry relates almost entirely to Fellows elected at the December Meeting, 1934, who did not pay their dues until the following January.
- 5. Foreign Membership.—No election was made during the year.
- 6. 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.
- 7. New Corresponding Members (Division I., Residents Abroad).—The following were elected to fill vacancies on the List:—
 - Prof. E. Bourdelle, Musée National D'Histoire Naturelle, 57, Rue Cuvier, Paris V., France.
 - Dr. Afranio do Amaral, Instituto Butantan, Caixa Postal 65, São Paulo, Brazil.
 - W. N. Carruthers, Esq., Kelantan, Federated Malay States.
 - Miss Annie M. Alexander, c/o, University Museum of Vertebrate Zoology, Berkeley, California, U.S.A.
 - Dr. Walter H. Chute, Director of the Shedd Aquarium, Chicago, U.S.A.
 - Prof. A. Gruvel, Musée National d'Histoire Naturelle, 57, Rue Cuvier, Paris V., France.
 - Monsieur R. Legendre, Laboratoire de Zoologie et de la Physiologie Maritimes, Concarneau, France.
 - Dr. Daniel de Lange, Director, Hubrecht Laboratory, Janskerkhof 2, Utrecht, Holland.
 - V. V. Hickman, Esq., B.A., B.Sc., University of Tasmania, Hobart, Tasmania.
 - Austin Roberts, Esq., Transvaal Museum, Pretoria, South Africa.
 - Frank Ludlow, Esq., O.B.E., M.A., c/o Postmaster, Srinagar, Kashmir, India.
 - Prof. Filippo Silvestri, Director, Laboratorio di Entomologia Agraria, Portici, Italy.
 - Prof. E. Ehrenbaum, Kirchenallee 47, Hamburg, Germany.

- Docteur A. Urbain, Sous-Directeur, Menagerie du Jardin des Plantes, Parc Zoologique de Vincennes, Paris 12, France.
- 8. New Corresponding Members (Division II., Professional Zoologists).—The following were elected:—
 John M. Watson.
 Gordon E. Newell.
- 9. Secretaryship.—In February the Secretary reminded the Council that he would reach the age of 70 in November 1934, and that although he was willing to be re-nominated for another year, he had decided that in his own interest and that of the Society, he would definitely retire at the Annual General Meeting in 1935. discussion the Council accepted his decision with regret. At a subsequent meeting, Council agreed that a successor should be sought for from among Zoologists of high scientific standing, and steps were taken to draw up a list of possible candidates. At the first meeting of the new Council in May, a Committee was appointed consisting of the President, the Treasurer, the Chairman of the Garden Committee and Mr. A. Ezra, Professor J. P. Hill, F.R.S., Mr. H. G. Maurice, C.B., Dr. Sheffield Neave, the Earl of Onslow and Sir Arthur Smith Woodward, F.R.S., with the present Secretary as Secretary, to obtain further information by interview or otherwise, and to report. On their detailed report, which was previously circulated, the Council interviewed two selected candidates and unanimously chose Mr. Julian Sorell Huxley, M.A., as their nomination for election as Secretary at the Annual General Meeting of 1935.

It was further agreed that Mr. Huxley's salary should be at the rate of £1,700 a year, and that he should occupy the rooms of the present Secretary.

Mr. Julian Huxley is a grandson of Thomas Henry Huxley, the famous Zoologist. He was educated at Eton and Oxford and has been Professor of Zoology in the United States and at King's College, University of London. He is the author of many technical scientific memoirs and has made valuable observations on the habits of living British wild birds. He is also a distinguished interpreter of biology to the general public. Pending his election at the Annual General Meeting, Mr. Huxley agreed to familiarise himself with the duties of the post by attending meetings of the Council and Committees, and from April 1 he will be on full duty in association with the present secretary.

At the Monthly Meeting for General Business in August, the retirement of the Secretary and the Council's nomination of his successor were announced. The Treasurer then read the following resolution passed by the Fellows on April 16th, 1919;

"That in the event of a Secretary of the Society ceasing to hold his post, the Council of the Society shall be expected to consider all the circumstances of the case, and if they think fit, to recommend the Fellows to grant him a pension or a capital sum in lieu of pension, such resolution to specify the amount suggested and to be read at the Monthly Meeting of the Society before that at which the Fellows shall be asked to vote."

In accordance with that resolution the President gave notice that at the monthly Meeting of the Society for General Business to be held on November 21st, 1934, he would propose the following motion on behalf of the Council:—

"That a pension at the rate of £1,800 a year be paid monthly to Sir Peter Chalmers Mitchell from the date of his retirement in consideration of his long services as Secretary of the Society and his successful conduct of its affairs."

At the Monthly Meeting held on November 21st, 1934 the President proposed the motion of which he had given notice. It was seconded by Sir John Bland-Sutton and carried unanimously.

10. Presentation Portrait of the Secretary.—In December 1934, the Council agreed to a request from six Fellows of the Society that they should circulate the following letter:—

TO FELLOWS AND FRIENDS OF THE ZOOLOGICAL SOCIETY OF LONDON.

Issued with the approval of the President and Council.

DEAR SIR OF MADAM,

PORTRAIT OF THE SECRETARY.

Sir Peter Chalmers Mitchell, who has been a Member of Council since 1900 and Secretary since 1903, retires from office on April 29th, 1935. We think that a suitable memorial of the progress made by the Society during that long period would be the gift to the Society of a portrait in oils of Sir Peter by Mr. William Nicholson, to be hung in the Offices of the Society. We have ascertained that this would be more agreeable to Sir Peter than any personal gift.

If you sympathise with this proposal and wish to contribute, please send a donation, from five shillings upwards, to the—

Portrait Secretary,

c/o F. W. Bond, Accountant,
Zoological Society of London,
Regent's Park, N.W.8.

Yours faithfully,

ROTHSCHILD, F.R.S., Trustee, British Museum.
MOYNE, P.C., D.S.O., President, Marine
Biological Association.

A. HENRY McMahon, G.C.M.G., G.C.V.O.

J. Stanley Gardiner, F.R.S., Professor of Zoology, University of Cambridge.

E. S. GOODRICH, F.R.S., Professor of Zoology, University of Oxford.

D. M. S. Watson, F.R.S., Professor of Zoology, University of London.

(Signed)

It is specially requested that those who wish to subscribe should send their gifts before the Annual Meeting. The response has already been very gratifying and it is hoped that the Portrait will be presented to the Society at the Annual Meeting. A full list of the Subscribers will be printed in the Report for 1935.

- 11. List of Fellows and Members.—A revised edition will be published early in June, 1935. Any corrections should be sent to the Secretary before April 30th, 1935.
- 12. Scientific Grants.—The Council made a donation of £10 to the National Trust towards the preservation of Wicken Fen, of £25 to Mr. Rymill's Antarctic Expedition, and of £2 to the British Correlating Committee for the Protection of Nature.
- 13. Loan of the Society's Rooms.—The Society's Rooms have been lent to the Association of British Zoologists, the British Ornithologists' Union, the Avicultural Society, and the Society for the Preservation of the Fauna of the Empire, to which also office accommodation has been given.
- 14. The Fauna Society.—In previous reports the Council has referred to the admirable work being done by the Society for the Preservation of the Fauna of the Empire. It becomes increasingly evident that we must not remain indifferent to the persistent attrition to which the animal life of the world is exposed as the means of communication improve and as the economic development progresses. At first sight it would seem impossible to adjudicate justly between the claims of mankind and the interests of wild life. There is no doubt, however, that exhaustive study of the possibilities shows many ways in which wild life may be preserved without detriment to the other interests of mankind. The Fauna Society continues to do valuable work by its correspondents

throughout the Empire and by its close association with similar societies in other nations. We are glad to record that the International Convention on Wild Life in Africa, referred to in the report of last year, is to be ratified by the British Government, and there is great hope that this Convention will serve as a model for extension to other parts of the world. In the meantime the Fauna Society sent a delegate to the All India Conference at Delhi where the preservation of fauna and wild life is being discussed. It is hoped, moreover, that international conferences dealing with the preservation of fauna and flora in Asia, Indo-Malaysia and Australasia will be arranged before long. The Fauna Society, with its centre in London, is in touch with every part of the Empire and is commended to Fellows of the Zoological Society for the useful work which it is doing in collecting information and in stimulating interest in the problems of the preservation of wild life. The minimum annual subscription is only 10s., and it is hoped that many more Fellows of the Zoological Society will support it. Communications should be addressed to the Secretary of the Fauna Society, c/o this Society.

15. Animals and Cinema Films.—The inclusion in Cinema Films of incidents which either display actual cruelty to wild animals or suggest that cruelty may have been caused in their production has been an increasing cause of anxiety to lovers of animals. The Council of the Zoological Society, in association with the Fauna Society, has taken active steps in the direction of eliminating such undesirable features, by direct negotiations with the British Board of Film Censors and subsequently with the newly formed British Film Institute. The Council appointed Major E. E. Austen, D.S.O., F.Z.S., to represent the Society in the various negotiations which were necessary and is much indebted to him for the energy and time he has given to the matter. The following communication explains the attitude of the British Board

of Film Censors and further steps are being taken through the British Film Institute:

[Received from Mr. J. Brook Wilkinson, Secretary, British Board of Film Censors, 16th October, 1934.]

The inclusion of animals, both domestic and wild, in cinematograph films, has received the most thoughtful consideration of the British Board of Film Censors since its inception in 1913. During the past two years, the censorship of these films has become more involved through the introduction of trained wild animals in dramatic stories, and their interpolation in films which primarily purported to represent wild life in the jungle. It has always been the policy of the Board to disallow incidents, which in their opinion, shewed cruelty to animals, or involved cruelty in the production of the films. There has also been a tendency to produce "fake" scenes, and instances in which deliberate cruelty is simulated, but where a careful examination of the films shews that no cruelty has taken place. Even then, the Board has taken exception to some of these incidents on the ground that the public would be deceived and consider that actual cruelty had been used in the production of such films.

Owing to the controversy which has arisen, it was thought advisable to discuss the whole problem with representative societies interested in animal welfare. Several meetings have already been held, and all agree that public opinion is against the exhibition of any incident which shews cruelty, and that it is most regrettable if cruelty is used in the studios to obtain the results portrayed. This opens up a very complicated subject for consideration having regard to the fact that the standards in this country on such matters are very different to the standards in force in most other countries. If a film were produced in this country which involved cruelty in its production, it would unquestionably lead to prosecution. In some countries, the same incident could be produced with impunity. All agree that this should be prevented if possible, and at the

conferences which have been held, the subject has been very carefully considered in the hope of finding a solution which would remove this most regrettable variation.

The Board therefore welcomes the very helpful cooperation it has already received, and meetings are being held with representatives of the following organisations, which are working in close collaboration with the Board.

British Museum (Natural History).

Zoological Society of London.

Royal Society for the Prevention of Cruelty to Animals.

Royal Veterinary College.

Society for the Preservation of the Fauna of the Empire. University of London Animal Welfare Society and Mr. Bertram W. Mills.

It is fully anticipated that these deliberations should serve a very useful purpose.

Since the receipt of the document printed above, the British Board of Film Censors, in connection with films portraying animals, has on two occasions consulted representatives of the institutions and societies mentioned. In both cases the Board unhesitatingly decided to follow the advice that was tendered, and the Rt. Hon. Edward Shortt, K.C., President of the Board, has expressed his deep appreciation of the expert assistance given.

- 16. Marine Biological Laboratory at Plymouth.—No application for the use of the Society's Table in the Laboratory was received during the year.
- 17. Scientific Meetings and Publications.—The Abstract was issued as usual. The Transactions are open for memoirs deemed of unusual scientific value, and requiring quarto illustrations. Volume XXI, of which Part V was published on December 19th, 1933, has been left open to be completed as suitable memoirs may be accepted.

Of the *Proceedings*, Part I, was issued on April 5th, 1934; Part II, on July 5th, 1934; Part III, on September 14th, 1934; and Part IV, on January 14th, 1935.

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

~	· ULLU I	LIOUCCELLIA	TOT OTTO T	 Cecaro .
			Plates	Pages
	1925		51	 1585
	1926		65	 1314
	1927		59	 1009
	1928		54	 1044
	1929		47	 770*
	1930		90	 1080
	1931		142	 1418
	1932		105	 1084
	1933		89	 1122
	1934		87	 982

^{*}The first volume in the new format with larger pages.

18. ZOOLOGICAL RECORD.—The complete Volume, No. 70, dealing principally with the literature of 1933, was published on November 20th, 1934. Of the Divisions, Vermes, Insecta, Amphibia and Reptilia, were published on July 3rd; Protochordata on July 7th; Porifera, Brachiopoda and Bryozoa on August 7th; Protozoa, Mollusca, Aves, Mammalia on August 24th; Cœlenterata on September 9th; Crustacea on October 8th; Echinoderma, Arachnida, Pisces, and Comprehensive Zoology on October 13th; Names of New Genera and Subgenera on November 10th.

Volume 71, dealing with the Literature of 1934 is in active preparation.

19. Zoological Record: Prices.—On account of the greatly increased cost of production it was 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	Div	isions.	8.	d.
Comprehensive Zoology			 3	0
Protozoa			 3	0

	his that been nonlined.					8.	d.
	Porifera or Spongid	a				2	6
	Cœlenterata					2	6
	Echinoderma					4	0
	Vermes					3	6
	Brachiopoda and B	ryozo	a			2	6
	Mollusca				May 4	5	0
	Crustacea					3	0
	Arachnida and Myr	bogoi	a			4	0
0	Insecta	-		allow		15	0
	Protochordata					2	0
	Pisces					3	6
	Amphibia and Rept					3	0
	Aves					7	6
	Mammalia					3	0
	List of New Genera			lament		9	U
	List of Abbreviat	iona	J back	ournels	ary	0	0
	List of Abbieviat.	s smor	mu J	ournais		4	6

* This Division is now published only by the Imperial Institute of Entomology, 41. Queen's Gate, S.W.7.

As the demand did not justify the additional cost, the experiment of sub-dividing the Division Insecta was dropped after Volume 67.

20. 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. The assistance given by other Societies and Institutions is shewn on the Table printed on page 19.

It has been arranged to keep accounts of the Record from Vol. 59 in the form of a "Zoological Record Fund" made up to the 31st of December each year. To this are credited all receipts (subscriptions and sales of the current Volume and of other Volumes from 59 onwards) received within the year, including the Society's own contribution of £500. From it is deducted the cost of production. The Record Fund now shows a balance sufficient to cover the cost of an annual issue, thus providing "capital"

for the undertaking. 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 the position has not improved, and the loss on each volume is still very heavy, much in excess of the contribution of £500 per annum made by this Society.

STATE OF "RECORD	FUN	ND "	AT	DI					934.	
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Balance from Vol. 68 (Annu								2,317	18	2
page 14)	d in	1024		•••				330		
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Donations to Vol. 70 received	don	1001 .			500	0	0			
Zoological Society of Lon Linnean Society	uon				15		- 554			
Barbour, Dr. Thomas						0				
Darbour, Dr. Thomas				_			_	565	0	0
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Rathbun, Miss M. J.					2	0	0			
Schmidt, W. L					2	0	0			
Shoemaker, C. R					2	0	0			
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								£3,219	15	1
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Expenses):—						_				
Letterpress					1,299		9			
Editor					200	-	0			
Recorders				•••	350		0			
Searching, and Assistance	e to R	Record	ers	•••	215		3			
Distribution					17	2	5			
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Binding				• • •	19	18	4			
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Dulano or r and		The state of the s								-

The full list of Donations since the inception of the "Record Fund" to December 31st, 1934, is as follows:—

Acad. Nat. Sci., Philadelphia American Entomological Society, Philadelphia American Ornithologists' Union Association of Economic Biologists Barbour, Dr. T. (Mus. Comp. Zool., Camb., Mass.) Blanchard, F. N. British Association British Museum of Nat. Hist British Ornithologists' Club British Ornithologists' Union Brooklyn Entomological Society of New York California Academy of Sciences Challenger Society Cockerell, Prof. T. D. A. Conchological Society Entomological Society Entomological Society Hawaiian Entomological Society Hawaiian Entomological Society Henshaw, S. (Mus. Comp. Zool., Camb., Mass.) Holland, The late Rev. W. J. Hornyold, Dr. A. G. Linnean Society Linnean Society of New South Wales McIntosh, The late Dr. W. C 10 6 10 285 (6 10 10 10 10 10 10 10 10 10 10 10 10 10	0 8 5 5 5 5 9 4 10 5 0 0 0 50 0 0 50 0 0 0 11 0 0 0 0 11 0 0 0 0 11 0 0 0 0	0 0 5 25 5 0 0 5	3 0 5 0 50 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 4 1 1 0 0 5 0 0 5 1	£ 8. d 15 0 4 50 0 0 0 0 0 10 10 0	£ 8. d 4 16 8 50 0 0 50 0 0 200 0 0 10 10 0	£ s. d 50 0 0 15 0 0	£ s. d 19
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21. A New "Nomenclator Zoologicus."—For several years past the work of systematists has been seriously impeded by the lack of a complete list of the generic names used in Zoology. The new genera that have appeared in the "Zoological Record" have not been collected together since the last volume of Waterhouse's "Index Zoologicus," which covered the period 1901–1910. The "Nomenclator Animalium Generum et Subgenerum," which has been in course of publication since 1926 by the Prussian Academy of Science, although it contains much valuable information, only includes the literature up to 1921, and only about three-fourths of it has yet appeared.

The Council of the Zoological Society of London has therefore approved a scheme for the preparation of as complete a list as possible of all the generic names that have been used in Zoology from the 10th edition of Linnaeus up to and including the literature for 1935. It is anticipated that this may involve some 190,000 names, but it is hoped that it will be found possible to publish it, at a moderate price, about the end of 1937.

All systematists and others throughout the world interested in the production of such a work are invited to report any names of genera or subgenera (with a reference to the original place of publication) that appear to have been omitted from existing records or catalogues. These should be sent as soon as possible to—

Dr. S. A. Neave, O.B.E., F.Z.S., Imperial Institute of Entomology, 41, Queen's Gate, London, S.W.7, England,

who is supervising the compilation of the work on behalf of the Society.

22. Garden Guide and Picture Postcards.—The thirty-first edition of the Garden Guide was issued in 1934, and in the course of the year, 59,763 copies were sold.

Since 1904, when the Guide became the property of the Society, 1,685,692 copies have been sold. The thirty-second edition of the Guide, which will also cover the Aquarium, has been prepared for issue early in 1935. Of picture postcards 266,857 were sold in 1934.

Of a separate guide to Whipsnade, 56,547 were sold in 1934. A new edition is in preparation. In the year 77,808 picture postcards were sold at Whipsnade.

- 23. 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 Neuchâteloise 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. Académie des Sciences de l'Ukraine, Kiew, U.S.S.R.

Johns Hopkins Institute for Biological Research, Baltimore, U.S.A.

1929. No addition.

1930. No addition.

1931. No addition.

1932. No addition.

1933. Société Royale Entomologique d'Egypte.

1934. No addition.

24. Library.—The Visitors' Book was signed by 310 Fellows and persons introduced by them, and 1,126 volumes were borrowed under the regulations.

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

PRESENTED.

Donor.

BARNETT, DR.
BURGESS, F.Z.S.

BARRAUD, P. J., F.Z.S.

Donation.

Toads and Toad Life. By Jean Rostand, 1934.

Fauna of British India. Diptera, Vol. V Culicidae. Tribes Megarhinini and Culicini. By Capt. P. J. Barraud. 1934. Bell, J. H., F.Z.S. Days with a Butterfly net. By J. H. Bell. 1934.

British Museum, Trustees of. The London Clay Flora. By E. M. Reid and M. E. J. Chandler. 1933.

Great Barrier Reef Reports. Vol. II, Nos. 4, 5; Vol. III, No. 9; Vol. IV, No. 14, 1933-34.

Diptera of Patagonia & South Chile. Part IV, Fasc. 3, 4, 1933; Part VII, Fasc. 1.2.1934.

Catalogue of the Books, Manuscripts, Maps and Drawings in the British Museum (Nat. Hist.). Vol. VII. Supplement, 1933. "Terra Nova" Reports. Zoology. Vol. VII, No. 5, 1934.

Insects of Samoa. Part II, Fasc. 4; Part VI, Fasc. 8. 1934.

Monograph of the Flat Fishes. By J. R. Norman. Vol. I, 1934.

Monograph of the Frogs of the Family Microhylidae. By H. W. Parker. 1934.

The Generic names of the Holarctic Butterflies. By F. Hemming. 1934.

Catalogue of the Fossil Cephalopoda, Part IV. 1934.

Guide to the Fossil Birds, Reptiles, and Amphibians. 1934.

Guide to the Fossil Mammals. 1934.

CHAPLIN, THE HON. ANTHONY, F.Z.S. Original Watercolour Drawing of Paradisea intermedia, painted by W. Hart in 1897 for Bowdler Sharpe's Monograph of the Birds of Paradise. CLARK, PROF. W. Early Forerunners of Man. By E. Le Gros, W. E. Le Gros Clark. 1934. F.R.S., F.R.C.S., D.Sc., F.Z.S.

CORBET, A. S. AND The Butterflies of the Malay Penin-Pendlebury, H.M., sula. By A. S. Corbet and H. M. F.Z.S. Pendlebury, 1934.

Dakin, Prof. W. J., Whalemen Adventurers. By W. J. D.Sc., F.Z.S. Dakin. 1934.

Duncan, F. Martin, The Etiology and Pathology of F.Z.S. Grouse Disease. By E. Klein. 1892.

> Nature in Eastern Norfolk. By A. H. Patterson. 1905.

EMERSON, Mrs. J. E. Two Lithograph Drawings from the Original Oil Paintings by J. L. Agasse, of Mr. and Mrs. Cross of the Exeter 'Change Menagerie.

FLOWER, MAJOR STANLEY S., O.B.E., F.Z.S. Catalogue of the Selous Collection of Big Game in the Brit. Mus. (Nat. Hist.). By J. G. Dollman. 1921.

Milestones 1830–1930. The Boston Society of Natural History. 1930.

Catalogue of Ungulate Mammals in the Brit. Mus. (Nat. Hist.). By R. Lydekker. 5 vols. 1913–1916.

An Egyptian Oasis. By H. J. L. Beadnell. 1909.

Illustrated Manual of British Birds. By Howard Saunders. 1889.

Life of the Rev. William Kirby, M.A. By J. Freeman. 1852.

Reptiles and Amphibians. By Thos. Barbour. 1926.

A Check-List of N. American Amphibians and Reptiles. By L. Stejneger & Thos. Barbour. 2nd edition. 1923.

Monograph of the Lacertidae. By G. A. Boulenger, 1920–21. 2 vols.

The Rat. Data and Reference Tables. By H. H. Donaldson. 1924.

The History of the Collections contained in the Natural History Dept. of the British Museum. Vol. II. Appendix. By A. Günther. 1912.

Extinct Monsters and Creatures of Other Days. By Rev. H. N. Hutchinson. 1910.

Abyssinian Birds and Mammals. By L. A. Fuertes. 1930.

Catalogue of Lizards in the Brit. Mus. (Nat. Hist.). By G. A. Boulenger. 3 vols. 1885–87.

10th International Congress of Zoology held at Budapest, September 1927. 1929.

Catalogue of the Snakes in the Brit. Mus. (Nat. Hist.). By G. A. Boulenger. 3 vols. 1893–1896.

Catalogue of the Mammals of Western Europe in the Collection of the Brit. Mus. (Nat. Hist.). By G. S. Miller. 1912.

Travels in Egypt and Nubia, Syria and Asia Minor during the years 1817 and 1818. By C. L. Irby and J. Mangles. 1823.

1925.

FOYLE, GILBERT, F.Z.S.

Successful Muskrat Farming. By R. G. Hodgson. 1927.

Animal Breeding. By L. M. Winters.

Jones, Surgeon-Capt. K. H., M.B., R.N., F.Z.S. Bird Life at Home and Abroad. By T. A. Coward. 1927.

Secrets of Bird Life. By H. A. Gilbert and A. Brook. 1930.

The Mind of Animals. By Sir J. A. Thomson. 1927.

LEONARD, R. M., F.Z.S. Raffles, 1781–1826. By R. Coupland. 2nd edition. 1934.

MITCHELL, SIR
PETER CHALMERS,
C.B.E., F.R.S.,
F.Z.S.

The Mammals of South West Africa. By G. S. Shortridge. 2 vols. 1934.

The Social Insects. By Wm. M. Wheeler. 1928.

OSBORN, PROF.
HENRY FAIRFIELD,
F.M.R.S., F.M.Z.S.

The Titanotheres of Ancient Wyoming, Dakota, and Nebraska. By H. F. Osborn. 2 vols. 1929.

ROULE, PROF. LOUIS, F.M.Z.S. Notice Biographique sur Alcides d'Orbigny (Commémoration du Voyage d'Alcides d'Orbigny en Amérique du Sud 1826–1833). Par Louis Roule. 1933.

Les Poissons et le Monde vivant des Eaux. Tome Septième. l'Abîme des grands fonds marins. Par L. Roule. 1934.

PURCHASED.

CAYLEY, NEVILLE W. Australian Finches in Bush and Aviary. 1932.
"What Bird" is that? A Guide to the Birds of Australia. 1933.

Gadow, H. F. The Evolution of the Vertebral Column. 1933.

Huxley, J. S. and De Beer, G. R. The Elements of Experimental Embryology. 1934.

Peacock, E. H. A Game-book for Burma and Adjoining Territories. 1933.

Plath, O. E. Bumblebees and their Ways. 1934.

Russell, E. S. The Behaviour of Animals. 1934.

Worthington, S. and E. B. Inland Waters of Africa. 1933.

Zuckerman, S. Functional Affinities of Man, Monkeys and Apes. 1933.

25. Prosectorium.—This Department continues to do great service to the Society, directly by inquiries 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.

26. Pathology.—Col. A. E. Hamerton reports:— "During the year the cause of death was investigated by post mortem examination in 1,068 cases, of which 222 were mammalian, 613 avian and 233 reptilian and amphibian.

"The 'average strength' of the Society's Collection, excluding Aquarium, Reptile and Insect Houses, for 1934 is estimated at 748 for mammals (inclusive of many tiny species, whose natural tenure of life is short) and 1532 for birds. On this estimate the ratio of deaths for the year is 29.5 per cent. among mammals and 40.0 per cent. for birds, as compared with a death rate of 28.2 per cent. mammals and 31.7 per cent. birds during the previous year.

"The death rate among mammals, though well below the average for the past 6 years, is slightly higher than that for the last year. The mortality among newly imported mammals during their period of acclimatisation, that is

within 6 months of arrival is 33.7 per cent., whereas the mortality among acclimatised mammals is only 19.6 per cent.

"The high mortality among birds, the highest on record, is mainly due to the Society accepting large collections of birds, for which a home was required, which arrived in rather battered condition. The mortality among such new arrivals was 35.7 per cent. of the total deaths in the avian collection. The mortality of birds resident over 6 months in the Gardens was 25.6 per cent. of the total strength, this figure is 2.6 per cent. higher than that reported for 1933.

"An outbreak of infectious enteritis or 'Cat Distemper' occurred almost simultaneously in 3 Felines occupying adjoining dens in the Small Cat House. The Superintendent immediately recognised the disease in the first animal affected which, together with the two contacts, were forthwith transferred to the Isolation Block. All three were mature and acclimatised animals. Two recovered after a moderately severe attack, but an Ocelot (Felis pardalis) that had been 6 years in the Gardens had the disease in its most acute form and succumbed. The diagnosis was confirmed at the post mortem examination.

"A newly imported Caffer Cat (Felis ocreata) died from Cat Distemper' soon after arrival and whilst it was in quarantine.

"The commonest causes of death are :-

- (1) Diseases of the Respiratory System; 159 or 14.8 per cent.—a slight increase on last year.
- (2) Diseases of the Digestive System; 166 or 15.7 per cent.—a considerable increase on last year.
- (3) Injuries and Accidents; 175 or 16.6 per cent.—a substantial reduction on last year's record.

"It is evident therefore that 1934 was not a particularly healthy year, despite the exceptionally fine summer and mild winter. "Although there was no epizootic disease of the respiratory or digestive system there was an increase in the incidence of sporadic cases amongst small birds in the various aviaries, except the Parrot House and its aviaries which continue to be the most healthy in the Gardens.

"Tuberculosis caused the deaths of 7 mammals, including 4 Monkeys, 2 Antelopes and 1 Civet, 13 birds and 5 reptiles. The mortality from this disease in mammals remains low viz, 3.1 per cent. a moderate reduction on the incidence for last year.

"3 of the affected Primates were Capuchin Monkeys that were presented in November. One died of tuberculosis during its customary period of quarantine; its two companions were kept under observation in the Isolation Ward and both died of tuberculosis within the year; fortunately they never had access to the Monkey House or opportunity of infecting other animals.

"A Cercopitheque Monkey that had been 7½ years in the Monkey House lost condition, tuberculosis was suspected and it was transferred to the Isolation Ward where it died shortly afterwards from pulmonary tuberculosis. The contacts in adjoining cages were removed from the Monkey House; no other case occurred among the Primates. Prior to this case no tuberculosis had occurred in the Monkey House for over 3 years.

"The Palm Civet that died from tuberculosis arrived from West Africa in an advanced stage of the disease and died in quarantine shortly after arrival.

"The two Bovidae, a Reedbuck, and a Lechwe Waterbuck that had been over 10 years in the collection and had reared several fine calves, contracted tuberculosis in the Gardens.

"Among the 15 birds that died from avian tuberculosis an Ostrich and a Humming Bird are included.

"A large Python died in quarantine from generalised tuberculosis 2 days after its arrival from West Africa.

- "Mycosis caused the deaths of 2 mammals, 28 birds, 1 amphibian and 1 reptile.
- "The mammalian cases were Actinomycosis in an Antelope and Nocardiosis in a Wallaby.
- "14 birds, including one Humming Bird, were infected with mycosis on arrival and died shortly afterwards.
- "Rickets and Allied Diseases of Bone.—Of 12 mammals that died from Rickets 8 were Primates: 7 of these were New World Monkeys, 5 of which were rickety on arrival and 2 acquired the disease in the Menagerie. One baby Baboon, rickety on arrival, had to be destroyed on account of increasing deformity, despite prolonged treatment. Two Mongooses, a Civet and a Brazilian Tree Porcupine arrived with bones so soft that they were almost immobilised and had to be destroyed. The Porcupine was treated for some months without benefit.
- "A number of young Australian Maned Geese hatched out late in September 1933, when the grass was poor, died from osteomalacia. A clutch of Snow Geese hatched early in the year and allowed to graze freely on the young growing grass, grew up fine healthy birds.
- "Subjects of special pathological interest are dealt with in my Annual Report to be published as usual in the Scientific Proceedings. They may be mentioned briefly as follows:—
- "Diseases of the Blood and Circulatory system accounted for the deaths of 5 mammals, 35 birds and 3 reptiles.
- "A Bear that had been 14 years in the collection died from chronic valvular disease of the heart; 4 other mammals died from fatty degeneration of the heart muscle associated with old age, generous diet and little exercise. 12 birds died from valvular disease of the heart, 7 from degenerative changes of the arteries and heart muscle associated with old age. 6 birds died from heart failure associated with extreme fatty degeneration of the heart which was

ruptured in 2 cases. The renowned and popular Komodo Dragon 'Sumbawa' died from acute ulcerative inflammation of the heart valves.

"Diseases of the Urinary System due to degenerative and inflammatory changes in the kidneys and impairment of renal function are, like similar changes in the cardio-vascular system, the usual causes of death in the aged inhabitants of the Menagerie, and in the year under review renal disease destroyed 9 mammals, 35 birds and 3 reptiles.

"Diseases of the Liver and Gall Bladder caused the deaths of 3 mammals, 14 birds and 2 reptiles. Cirrhosis of the liver, to which felines are peculiarly liable, destroyed a Puma and a Cheetah. A Moustached Monkey died from empyema of the gall bladder, and a Flamingo that had been over 10 years in the Menagerie died from gall stones.

"New Growths.—The following animals died from neoplastic disease. A Raccoon and a Common Fox died from cancer of the thyroid gland—with numerous secondary deposits in the lungs, and in the case of the Fox in the large veins also. This disease is common in old dogs and similar animals. A Brown Bear that had been 21 years in the Gardens died from an endothelioma of the skin and subcutaneous tissues. Surgical removal of the growth was followed by its speedy return in a more virulent form. A Field Vole died from an adenoma of the lung arising from the alveolar epithelium, a form of neoplasm which is not uncommon in small rodents, arises spontaneously, and grows rapidly.

"Animal Parasites.—Helminthic infestations caused the deaths of 9 mammals, 8 birds and 16 reptiles. It is believed the parasites were acquired before arrival in all cases.

"Material and specimens have been sent to workers specialising in various branches of Pathology and Parasitology at the undermentioned institutes, who in

return have given valuable advice and assistance which I gratefully acknowledge:—

Royal College of Surgeons.

Royal College of Veterinary Surgeons.

London School of Hygiene and Tropical Medicine.

Bland-Sutton Institute of Pathology, Middlesex Hospital.

National Institute of Medical Research, Hampstead.

Wellcome Bureau of Scientific Research.

The Field Laboratories, Cambridge.

Dept. of Pathology, St. Bartholomew's Hospital. Laboratories, Imperial Cancer Research Fund."

27. ANATOMICAL RESEARCH FELLOWSHIP.—On recommendation of the Prosectorial Committee, the Council continued the appointment of Dr. Burgess Barnett to the Anatomical Research Fellowship as from January

1st, 1935, but it is hoped that he will resume full duty at the Reptile House during the year and that the Fellowship

will be advertised.

28. Anatomy.—Dr. Burgess Barnett, the Society's Anatomical Research Fellow, reports:—

I. "Anatomical and other material for research has been prepared and supplied to many institutions and private workers.

II. "Research has been carried out in conjunction with other workers on the possible therapeutic applications of the toxins of snake-venoms. One branch of this work has reached a conclusion with the production of a hæmostatic agent efficient in hæmophilic and other hæmorrhage.

III. "A paper was read before a Scientific Meeting of the Society on the Coagulant Action of Certain Snake-Venoms on Hæmophilic Blood. This related to work done in conjunction with Dr. R. G. Macfarlane. A joint paper dealing with the medical aspect of the same subject has been published in the Lancet for November 3rd, 1934. Other medical and semi-medical papers have also been published."

- 29. 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 by the Society's Pathologist. The material collected has been provisionally identified and reported upon quarterly to the Prosectorial Committee. The 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 material has, as far as possible, been utilised for the study of life-cycles where no intermediate host is required. The following have participated in the scheme :- Dr. B. G. Peters, Ph.D., Professor R. T. Leiper, F.R.S., Miss P. A. Clapham, B.Sc., and Miss Enid Smedley, M.Sc."
- 30. 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.R.C.V.S., F.Z.S., Honorary Consulting Veterinary Surgeon to the Society, from Lt.-Colonel Hamerton, the Society's Pathologist, and from the Curators. After-treatment of animals which have undergone operations of various kinds has been in the hands of Mr. Hicks and the Sanatorium Staff, who are to be congratulated on their successes in many difficult cases. Fellows and the other visitors are not admitted to the Sanatorium or Sanatorium Yard, as many of the animals in them are under quarantine.
- 31. ISOLATION WARD.—The Isolation Ward, made in 1931 by bricking-off a portion of the North Mammal House,

is used for cases of cat distemper and similar diseases apt to assume epidemic form. The ward is in charge of a specially qualified keeper, and other members of the Staff. Fellows, or visitors, are prohibited from entering it.

- 32. OPHTHALMOLOGY.—The work of this department has been continued by Miss Ida C. Mann, D.Sc., M.B., B.S., F.R.C.S., the Society's Honorary Consulting Opthalmologist. Remarkably few cases of eye-disease have been reported this year. There have been no epidemics and work has been confined to the Staff.
- 33. VISITORS TO THE GARDENS.—The total number of visitors to the Gardens in 1934 was 1,639,611. The following Tables give comparative figures:—

Visitors to the Gardens.

1925	1,823,613	1930	2,101,438
1926	1,937,935	1931	1,816,052
1927	2,158,208	1932	1,552,535
1928	2,225,662	1933	1,557,791
1929	2,047,090	1934	1,639,611

Visitors on Bank Holidays.

	1933	1934
Easter Monday	 60,453	68,549
Whit Monday	 28,159	55,842
First Monday in August	 21,925	37,268
Boxing Day	 1,412	2,942

Visitors on Sundays and Week-days.

		1933	1934
Sundays	 	155,624	169,746
Week-days	 	1,402,167	1,469,865

34. 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, except on Thursdays from June 20th to August 29th, when they are open until 11 p.m. (see par. 34). 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.— Fellows, unless they choose the alternative stated below, receive each year 40 undated green cards, available on any Sunday or Week-day up to January 31 of the year following the year of issue, and also available for the Aquarium, and 20 white cards available on any Week-day up to January 31. For 20 green tickets they may receive a book of dated Sunday orders, each admitting two persons, valid only for the days printed on them, and for 20 white tickets, a similar book of Week-day orders, each valid only for the week printed on them. Expired tickets cannot be used or exchanged.

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 Office.

ADULTS.

25 to 100 @ 11d. each.

101 to 200 @ 10d. each.

201 to 300 @ 9d. each.

301 & upwards @ 8d. each.

CHILDREN UNDER 14
YEARS OF AGE.
25 to 100 @ 5d. each.
101 & upwards @ 4d. 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 for 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.

Biology Students.—Students of Zoology or Animal Physiology at Secondary or Collegiate Schools or University institutions may be admitted to the Gardens and the Aquarium at the rate of 6d. each on Tuesdays, Wednesdays, Thursdays and Fridays, with their teacher, if the Society,

through written application to the Secretary, is satisfied that visits are in connection with a serious course in Zoology or Animal Physiology.

Applications must be made at least a week in advance, addressed to the Secretary, Zoological Society of London, by the teacher of the students in question, giving full particulars of the specific purpose for which the visits are required in connection with the course, and if they are granted it will be understood that the visits are made only for the purpose in question.

35. Thursday Evenings.—The experiment of opening the Gardens on Thursday evenings, now tried for several years, appears to give pleasure to Fellows and the public, but financially the results depend too much on the weather. It is impossible to state the exact numbers of visitors, as many who came during the day remained until evening. The total number booked in on the thirteen Thursday evenings from June 21st to September 13th, 1934, inclusive, after the figures for the day had been taken as usual, was 25,619, of which 8,642 entered by Fellows' signatures or tickets, 15,899 were adults paying one shilling each, and 1,018 were children paying sixpence. The Gate money was £820 8s. and £233 18s. 6d. at the Aquarium.

This year the Thursday evenings late openings are to extend from June 20th to August 29th, both inclusive.

Dinners at 4s. 6d. only will be served in the Fellows' Restaurant during the season on the Thursday evenings on which the Gardens are open till 11.0 p.m. It would greatly assist the Catering Department if Fellows wishing to dine there on those nights would very kindly advise the Management the day before, or on the same day before noon. The Management would also be glad to receive cancellations before 6.0 p.m. for tables reserved for the evening.

36. AQUARIUM.—The Aquarium maintained its popularity and was patronised by 15 per cent. of those that entered the Gardens. The Aquarium was opened on Thursday evenings from June 21st to September 13th, the charges of admission being 1s. for adults and 6d. for children.

Large collections were received from Madeira, Folkestone, Plymouth and Brighton, and the Society is again especially indebted to Mrs. E. B. Carter, F.Z.S., for organizing the capture of specimens from the first-named locality and to the Union Castle Mail Steamship Company for transporting the specimens in Tanks built for the purpose on two of their mail steamers.

The total number of visitors to the Aquarium was 265,604 as compared with 263,438 in 1933.

Visitors to the Aquarium.

		1933	1934
Sundays		41,725	39,486
Week-days		221,713	226,118
Easter Monday		6,194	7,694
Whit Monday		2,384	5,192
August Bank Holid	ay	1,789	3,044
Boxing Day		277	441

37. AQUARIUM: RULES FOR ADMISSION.—Fellows and wives and husbands of Fellows retain their privilege of taking two visitors personally with them on Sundays and week-days, and if they desire to admit or to send others, they may provide them with additional green tickets or purchase Aquarium tickets from the Office in advance for them. In consequence of the change in the Law, visitors already in the Gardens on Sundays are now permitted to enter the Aquarium by paying 1s. each for adults and 6d. each for children. In 1934 the receipts from this source amounted to £564 1s.

The rules for admission to the Aquarium are printed on the inside page of back cover.

- 38. AQUARIUM RESEARCH FELLOWSHIP.—This has been suspended for the present, but the Council hopes to re-open it in the course of the year. It will be advertised as on former occasions.
- 39. Insect House.—As in past years, visitors to this house have appreciated the display of British and foreign insects, spiders, etc., arranged throughout the seasons. Numerous additions were made by donation, purchase and collection, and these, combined with the immature stages of various species bred, enabled a full exhibition to be maintained. A fine collection of West African land crabs has done well, as have some giant millipedes and South African scorpions. Among the insects exhibited, some spined stick-insects from New Caledonia and Atlas moths from India attracted special attention. Some miniature tanks for the smaller forms of aquatic life have been installed, while more scenic backgrounds have been added to other cases.
- 40. Medical Attendance at the Gardens.—With numbers of visitors to the Gardens, sometimes reaching 2,000,000, 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 other than Saturdays from 10 until 5 and on Saturdays from 10 until 1, Lt.-Colonel A. E. Hamerton, the Pathologist, gives first-aid, and Dr. B. Barnett, the Anatomist, also is a qualified medical man, also gives assistance. Dr. G. M. Vevers, the Superintendent, and Mr. C. H. Hicks, the Superintendent's Assistant, who is highly trained in first-aid, are never both away from the Gardens. The Prosectorium Assistant is also skilled in first-aid dressing.

The Council has arranged with the St. John Ambulance Brigade that members of their trained staff should attend at the Gardens on Bank Holidays and on Saturdays, Sundays and Mondays during the busy season. The Council pays a food allowance to the staff and makes a donation to the funds of the Brigade. This arrangement has been found to give a practical casualty service.

41. Gardeners' Department.—In spite of the long-continued drought, the Gardening Staff under the supervision of Mr. W. Wall, Head Gardener, provided a magnificent succession of bloom from April, when the first tulips flowered, until the late autumn, when the chrysanthemums and dahlias made a very fine show.

The new border of flowering shrubs and herbaceous plants between the Main Gate and Eastern Aviary, made in the spring of the year, suffered from the drought, but the losses have been replaced and it is hoped that this summer the border will become fully established.

As usual every year, the turf in all the aviaries and many paddocks was renewed.

A valuable collection of tropical plants was received as a gift from the executors of the late Mr. G. H. Gurney, F.Z.S. These were, for the most part, planted in the Tropical and Reptile Houses.

42. Works During 1934.—In addition to a long list of minor items of repair, the Works Staff, under the direction of Mr. W. Ball, Clerk of Works, have carried out the following more important works of maintenance.

Fellows' Lawn.—A new dwarf fence was erected and set in concrete. It was made especially strong to withstand the weight of the crowds which gather during the Chimpanzees' Tea Party.

Tropical House.—Additional windows were made in the public portion of this house to enable visitors to get a clearer view of birds in both aviaries.

Roads.—Road repairs were carried out in various parts of the Gardens.

Middle Gardens.—A large portion of the bank and shrubbery opposite the Elephant House was set back a distance of from two to three yards and recesses for seats were made. New shrubs and trees were planted.

Peafowl Aviaries.—These have been rewired throughout.

Monkey House.—Six of the outside cages facing south were divided into two compartments, to accommodate the surplus stock of monkeys accumulated during the winter.

Cycle Shed.—A new cycle shed for the use of members of the Gardens Staff was erected in the Stores' Yard near the Timekeepers' Gate.

Store Room.—To increase storage space for publications and stationery, a new store room was fitted with shelves in the basement of the offices, and more storage space was provided in an outhouse at the back of the offices.

Three Island Pond.—This pond was put in thoroughly good repair and new fencing erected.

Furnaces.—A trial is being made of three types of automatic stokers which will enable small coal to be burnt. If these machines prove satisfactory, it is intended to instal them in most of the boiler houses in the Gardens, thereby economising in the cost of fuel. In addition, arrangements are being made to deliver this type of fuel in bulk, and coal stores are being erected near various houses. So far the trials have proved satisfactory.

Works' Department.—A covered extension of the large carpenters' shop was completed during the year.

Painting, cleaning and disinfection have been carried out at the following:—

Lion House.

Aquarium.

Parrot House.

Small Bird House.

Works Department.

All Lavatories.

Reptile House—service portion.

Propagating Department.

North Mammal House—interior.

Birds of Prey Aviaries.

All Refreshment Bars.

Fellows' Restaurant.

Main Restaurant.

Scenery in dens of Reptile House.

Main, North & South Entrances.

Gorilla House-exterior.

Offices-main hall.

Kangaroo Sheds.

Camel House and Clock Tower.

Old Bears' Dens.

Bandstand.

Small Mammal House.

First Aid Station.

Rodent House.

Head Gardener's House-interior.

Peafowl Aviaries.

Ostrich House.

Gazelle Sheds.

Wolves' Dens.

In addition, the following have also been painted:-

Canal Bridge.

Pony and Llama carts.

Boundary Fence, Outer Circle.

Over 500 garden seats.

Old Tunnel.

- 43. Electrical Department.—This department, under the direction of Mr. H. P. Davolls, continued the extension of the Electrical supply to the Gardens. In addition to routine work and work connected with the evening openings, several overhead cables were replaced by underground cables.
- 44. Extraordinary Works, 1934.—The new Penguin Pond, referred to in the Report for 1933, paragraph 34, 42 was duly completed in time for Whitsuntide. It is constructed in modern reinforced concrete, and the architects, Messrs. Tecton, have taken full advantage of the plastic possibilities of the material. Without doubt it has proved extremely satisfactory for the penguins, and has the advantage of being easy to keep thoroughly clean. The general public have showed their appreciation of it by making it one of the most popular exhibits in the Gardens. As always happens in the case of new forms of artistic beauty, there have been unfavourable criticisms, but it has received great and flattering attention in technical architectural publications in this country, Europe and America, and the Society has been congratulated as a pioneer in artistic and practical architecture.
- 45. Extraordinary Works, 1935.—No special works have been arranged but extensive additions and improvements are being made in the Catering Department.
- 46. Band.—A Committee, appointed by Council, was given powers to select a Band and to arrange for performances on the same general lines during the season of 1935 as in 1934. In accordance with their decision, the Band of the 65th (8th London) Field Brigade, Royal Artillery, has been engaged and will play on Saturday and Sunday afternoons from May 25th, 1935, to August 25th, 1935, inclusive. On Thursday evenings from June 20th to August 29th, inclusive, when the Gardens are open late, the same Band will give performances.

47. Refreshment Department. Accounts.—Messrs. W. B. Keen and Co., the Society's General Auditors, audited the Catering accounts for the year January 1st to December 31st, 1934, thus coinciding with the other accounts of the Society.

The gross profit for the year 1934 amounted to £33,319 12s. 11d., and the manufacturing and other working expenses for the same period, including feeding the staff, Manager's salary, rent to the Society, license duties, etc., amounted to £26,873 9s. 2d., leaving a trading profit of £6,446 3s. 9d. After adding the receipts from Lavatories, etc. (£1,297 19s. 3d.), and deducting the Manager's commission (£150), and the cost of additions, renewals and repairs, etc. (£1,551 5s. 9d.) there was a net profit to the Society of £6,042 17s. 3d.

Out of the net profit, the sum of £1,911 12s. 7d. has been allotted to repay the Works' Department for work carried out at the Refreshment premises. The balance of £4,131 4s. 8d. has been passed to the General Account.

- 48. Refreshment Department Manager. Mr. Melero, who has been in charge of the Catering Department at the London Gardens since the death of the late Mr. Ridley and who has proved himself to be a careful and economical administrator in difficult financial times, retired from his post at the end of the year (1934). The Council decided that there might be advantages in bringing the catering at the London Gardens and at Whipsnade under the same control and appointed Mr. Schorno as Catering Manager to the two establishments. Mr. Schorno has been in charge at Whipsnade for 1933 and 1934 and has shewn himself to be a caterer of unusual merit.
 - 49. DE ARROYAVE TRUST FUND. The Capital of this Trust Fund is held by the Trustee of Charitable Funds (see Annual Report of the Council for 1931, page 45, par. 50). The income received by the Society during 1934 amounted

to £3,160 17s. 4d., and on the last page of the Report of the Auditors at the end of this Report there is printed a statement of the purposes to which it was assigned by the Council.

WHIPSNADE.

50. Whipsnade Zoological Park.—There was an increase in the number of visitors.

Whipsnade Vis	sitors.		 1933	1934.
Sundays			 162,865	204,849
Week-days			 270,564	311,562
Total			 433,429	516,411
Easter-Mond			 14,217	9,721
Whit-Monda			 11,003	18,962
August Bank		lay	 6,242	1,022
Boxing Day			 75	350

51. Whipsnade Park. Rules for Admission.—
Fellows. The regulations have been amended to make them similar to those in force at the London Gardens and are now as follows:—

Fellows or their wives have personal admission with two friends without payment during the hours that the Park is open to the public by signing their names in the Gate-book; Green tickets, Sunday Orders and Transferable Ivory tickets, valid at the Gardens, are also valid at Whipsnade, but not week-day white tickets or orders. Fellows may purchase from the Society's Office in Regent's Park tickets for Whipsnade at 5s. for 6.

The Public.—Visitors who are not Fellows of the Society are admitted on Sundays and Week-days at the price of one shilling each for adults and sixpence each for children under twelve, but children are admitted only when accompanied by adults who are responsible for their behaviour and safety.

Times of Admission.—The Park is open daily (except Christmas Day) throughout the year from 10 a.m. until

"lighting-up" time. A notice at the Gates states the time of closing each day.

Excursion Parties.—Special rates of admission to Whipsnade are given on the same terms as to the Gardens in London. (See p. 36 of this Report.)

- 52. Whipsnade Park Season Tickets.—Season Tickets may now be obtained at Whipsnade or in the Society's London Office at the rate of one guinea for the year from January 1st to December 31st, each giving admission at any time when the Park is open to the public to one of two persons, members of the same family and designated by their signatures on the ticket, accompanied by one friend, the holder who presents the ticket to sign in the Gate-book. These Season Tickets were sanctioned in response to local requests, but so far there has been very little demand for them.
- 53. WHIPSNADE PARK. REGULATIONS AND BY-LAWS.— The Park is under two sets of regulations, our own By-Laws and By-Laws which have been approved by the Secretary of State for Home Affairs and have legal force. Of the former the most important is that the Society disclaims responsibility for any damage caused to visitors who go too close to the fences and barriers or who try to stroke or touch any of the animals. In the London Gardens we try to make such accidents impossible so far as this can be done by specific warning notices, close wiring, double barriers, and so forth. In the new Park the cost of providing such precautionary structures would be prohibitive because of the much larger size of the enclosures, and the natural appearance of the Park would be spoiled by them. Accordingly the following general warning has been placed at the Gates, and Fellows and other visitors are allowed admission only on the condition implied in the notice:-

Warning to Visitors.—Whipsnade Zoological Park is designed to supply the most natural possible conditions

for keeping wild animals in captivity. In consequence, all visitors are warned that the Society disclaims responsibility for any damage caused to visitors who go too close to any of the fences or barriers or who endeavour to touch or to feed any of the animals. Visitors are also warned that they are allowed to bring in children under twelve only on the condition that they make themselves personally responsible for the safety of the children.

Copies of the By-Laws are posted at the Gates. Any person offending against any of them is liable on summary conviction to a penalty not exceeding £5. Any officer or servant of the Society may after due warning exclude or remove from the Park any person whom such officer or servant has reasonable ground for believing to have infringed any of the By-Laws, or behaved in a riotous or disorderly manner or in a manner likely to cause a breach of the peace.

The co-operation of visitors is requested with regard to the observation of the By-Laws, and in particular to those forbidding the leaving of any litter, the teasing or molesting of the animals, or plucking or damaging wild flowers.

54. Whipsnade Park. Cars.—When the Park was opened it was possible to buy only three acres of ground suitable for making a Car Park, and this proved insufficient. The twelve additional acres purchased in 1931 were brought into service by considerable work in draining and preparing the ground. The Coaching section was increased to hold seventy-five coaches and two shelters for visitors waiting for buses were constructed, one capable of holding 500 and the other 300 visitors. A Kiosk for cheap teas and light refreshments for chauffeurs and other workers and a covered shed for visitors waiting for 'buses were also constructed and has proved a great convenience.

The fees for parking are one shilling each for private cars, sixpence each for motor cycles, and twopence each for "push" cycles. Petrol, oil, water and small motor

accessories can be obtained in the Car Park, and minor repairs can be carried out by the staff mechanic.

Motor-cars, bicycles, horse carriages or similar means of transport are not allowed to enter the Park except on Mondays, not Bank Holidays, throughout the year, and daily, except Saturdays and Sundays, in November, December, January and February, when private cars are allowed to circulate in the Park from 10 a.m. until 2 p.m. at the charge of five shillings each car, in addition to the entrance fees of the visitors.

Motor-'buses carry visitors round Central Avenue from a starting place near the Whipsnade Gate to Terminus Circle near Ouseley Kiosk; the cost of tickets, which are valid all day, is sixpence for each adult and threepence for each child.

- 55. Whipsnade Park. Routes to.—Since the new road from the main gate to Watling Street, between Markyate and Dunstable, was completed, there is excellent road access from the north through Dunstable and from London through St. Albans and Markyate. Regular 'bus services run from London, and from the railway stations at Luton.
- of Mr. A. Schorno, Catering Manager since January 1st, 1932, the catering arrangements have been greatly improved, and the accommodation at the Central Restaurant and the Kiosks has been much extended.

A notice is placed inside the Whipsnade Gate giving the refreshment arrangements for each day.

There are six fully licensed Refreshment Stations inside the Park, the licensed hours being from noon until 3 p.m. and from 5 p.m. until 10 p.m. on week-days, and on Sundays from 1 p.m. until 3 p.m. and from 6 p.m. until 9 p.m.

At the Central Restaurant at Hall Farm, hot luncheons, dinners and teas at various prices are served.

At the Fellows' Pavilion on the edge of the Downs near the end of Duke's Avenue, luncheons and teas are served, and cold dinners can be served in the season if application be made in advance. The use made of this Pavilion, which is on one of the most beautiful sites in the Park, has been disappointing. It has been decided for the present to allow Fellows to give admission to it to their friends on week-days by a dated card or letter.

At Ouseley Kiosk on the edge of the Downs, near Bison Hill, luncheons and teas are provided.

At Triangle Kiosk, which has been much improved in the winter of 1933–34, on the edge of the Downs near Triangle Wood, and at Avenue Kiosk at the end of Central Avenue, light meals, refreshments and teas are served.

Open-air spaces are provided at each Kiosk for visitors who wish to bring their own refreshments, but picnicking is not permitted in other parts of the Park, except in some specially marked areas.

Large parties can be catered for if arrangements are made in advance. Letters should be addressed to the Catering Manager, Whipsnade Park, Dunstable, Beds.

57. WHIPSNADE PARK CATERING DEPARTMENT. Accounts.—The Catering Department Accounts for the year 1934 have been audited by Messrs. W. B. Keen & Co. The Gross Profit for the year amounted to £15,497 13s. 8d. and the manufacturing and other working expenses for the same period (including feeding and lodging the staff, Manager's salary, licence duties, etc.) amounted to £10,640 12s. 3d., leaving a trading profit of £4,857 1s. 5d. After adding the receipts from Lavatories, Commission on sale of Ices, etc. (£966 5s. 1d.) and deducting the Manager's Bonus (£50) and the cost of additions, renewals and repairs, etc. (£738 15s. 11d.), there was a net profit to the Society of £5,034 10s. 7d.

Out of the net profit the sum of £636 13s. 7d. has been allotted to the Works' Department towards the cost of work carried out at the Catering premises. The balance of £4,397 17s. has been passed to the General Account.

- 58. Whipsnade Park. Management and Staff.—The Park is under the direct control of a Committee consisting of the President and Secretary of the Society, the Chairman of the Garden Committee and two other members of the Council. It meets at Whipsnade monthly, and is also attended by the Superintendent of the London Gardens. There has been no alteration in the staff during the year.
- 59. The Bedfordshire County Police have been of great assistance to the Society. Two constables are detailed for permanent duty at Whipsnade and control the traffic outside our gates. At week-ends and on Bank Holidays these numbers are considerably increased. It is by their co-operation that we are able to deal with the car traffic expeditiously.

The local Boy Scout troops send four Scouts or Rovers every Sunday throughout the summer months to assist in our anti-litter campaign.

60. Whipsnade Park. Accidents and First Aid.—An unfortunate event occurred on June 7th. S. L. Stenson, a van driver in the Catering Department, quite unnecessarily lost his life, whilst climbing into the Dell Lion Enclosure. At the inquest the Society was exonerated from blame, but additional barriers have been erected, to make folly even more difficult.

A new Ambulance Station has been built. The Area Commandant of the Local Section of the St. John Ambulance Brigade has placed at our Ambulance Station every Sunday throughout the summer, one non-commissioned Officer, two Privates and one Sister. These numbers have been doubled on the Whitsun and August Bank Holidays. They have been of great assistance in dealing with minor casualties.

61. Whipsnade Park. Development.—The Council sanctioned the surrounding of an old flint pit with iron bars for occupation by the three tiger cubs born in July 1933. The fencing was erected by our Works staff. It consists of iron bar fencing, 15 feet high, with an overhang of iron spikes, 6 feet in length. Inside the enclosure are two concrete caves, a log cabin hut and a small lake. The three cubs were released in the enclosure on May 9th. They have done well there, and the two males have grown considerably and have developed big limbs.

A further development was the building of a Giraffe House, the architects being Messrs. Tecton. Attached to the house is a sanded court-yard, so that the occupants can take exercise during the winter months, and a grass paddock for exercise in the summer. The house is provided with heat, thermostatically controlled.

62. Whipsnade Park. Works 1934. Triangle Kiosk.—
The front portion of this kiosk has been provided with a glass windscreen. The old Lavatories attached to the kiosk were pulled down and new ones erected.

Elephant Lawn.—A new kiosk has been erected on this Lawn where light refreshments and riding tickets are sold.

Tiger Pit.—An additional observation terrace has been provided to this pit, enabling the public to look down into the pit and across to the dens.

Bear Enclosure.—A new catch-up has been built.

Ouseley Kiosk.—The old Lavatories at this kiosk have been pulled down and a larger Lavatory built.

Safety Precautions.—Spiked barrier fences have been supplied to the rails at the observation terraces of the Lion Pit and Tiger Pit and Bear Garden Enclosure.

Boundary Fence.—The overhang to the boundary fence, $4\frac{1}{2}$ miles in length, which hung inwards, has been reversed and now hangs outwards. This work was

completed in February and since then no fox has got over the fence into the Park.

Fencing.—The following new enclosures were made and fenced in during the year:—(1) European Bison Enclosure, (2) Emu Enclosure, (3) White Red Deer Enclosure, (4) a new paddock alongside Sir Peter's Way.

Sewage Area.—A new lagoon was made here and is holding water successfully. The area has been planted with rushes, willows and other trees. Most of the trees were a gift from the President.

White Lion.—Whenever men could be spared they were set to work completing the "White Lion."

Roads, Paths, etc.—75 yards of first-class and 276 yards of third-class roads were made during the year. The main road round the Park was tarred. Ash footpaths were repaired, where necessary.

Engineering and Electrical Plant.—Work by the Engineers covers the Electrical and Water supplies, both of which have been well maintained. Electric light and heat have been supplied to the following:—Giraffe House, Parrot House, Chimpanzee Van. This necessitated the laying of 500 yards of cable.

Water.—2,000 feet of water conduit were put in. New Lavatories and hand basins were installed. All taps were bushed, so that only a minimum of water was allowed to flow. Water pumped for the year amounted to 3,343,441 gallons, an increase of some 82,781 gallons over the year 1933. Of this quantity 60,000 odd gallons were given away locally and the balance is accounted for by the increase in the number of visitors to the Park. 117,000 gallons of drinking water were passed through the water-softening plant, using 16,000 lb. of salt.

63. Whipsnade Park. Gardening.—As usual, much planting of trees and shrubs about the estate has been carried out, also general work in staking, weeding, care of climbers and lawns, removal of dead branches, clipping.

hedges and renewal of soil in borders. A new nursery has been fenced in and is gradually being stocked. The lagoon in the Sewerage Area was made under the supervision of Mr. Puddle, the Head Gardener.

64. Whipsnade Park. Agriculture.—Owing to the year being exceptionally dry, roots, thousand-headed kale and maize crops were a failure. About 18 tons of hay were made and stacked and are being held in reserve. The agricultural area known as 18 Acres is in readiness to be sown down with permanent grass for a new enclosure for animals later on. A field near the boundary fence at Newtons has been ploughed and will be taken on as a new area for crops.

The whole of the undeveloped portion of the estate has been limed with agricultural lime, half a ton to the acre. Several of the paddocks have been treated with one ton of lime to the acre. This is done to keep down helminthic infection, to encourage clovers, and to sweeten the ground in case of acidity. Soil tests have proved the advisability of this and at the same time have shown that our land is not acid in reaction.

Sheep.—Owing to the scarcity of grazing, our movable flock of sheep has been considerably reduced. A breeding flock of 40 ewes is being kept, their lambs being killed off yearly and supplied to the Catering Department.

Rabbits.—2,845 rabbits have been killed, of which 1,350 were supplied to the London Gardens.

Vermin.—A special effort has been made to keep down rats. A youth has been taken on for this work. During the summer months he is employed with the riding ponies, and during the winter months, principally on rat-catching. 2,022 rats have been caught. This number is nearly a thousand more than that for 1933.

65. Whipsnade Park. Menagerie.—The general health of the animals throughout the year has been good. The

summer was arid, brilliant sunshine for several months enabling animals to store up energy for counteracting the effects of winter. Events worth recording are as follows :-(a) In January the Emus laid 12 eggs, the cock bird hatching out and rearing one chick. A second egg hatched out, but the chick was crushed by the parent in the nest. (b) 14 eggs were laid by the Rheas and 3 chicks were raised. (c) A hen Ostrich laid 2 eggs, but as the cock bird is a capon, they were given to the Catering Department. One egg weighed 3 lb. 10 oz., equivalent to 25 hen's eggs. (d) A Brindled Gnu calf was born, but owing to an accident it lived only 24 hours. (e) The Brush Turkey mound this year was 4½ feet high, 44 feet in circumference and weighed 98 cwt. When the mound was opened it was seen that 19 eggs had been laid, 13 had been hatched and 6 were found addled. All the eggs were laid in two layers and deposited in the centre of the mound. The first layer was 18 inches above ground and the second 12 inches above it. It was noticed that the cock bird did not shut in the top of the mound at night this year as he did last year. Eight young birds were reared. (f) The breeding pair of Sarus Cranes raised two chicks this year. (g) During June we received a very fine pair of young Giraffes. male unfortunately died within 48 hours of arrival and the post mortem revealed septicæmia, following injuries at the base of the neck.

The same species as were on exhibit for 1933 were on view in 1934. Additions included:—Giant Tortoises, Duncan, Saddleback, and Blackish Tortoises; Matschie's Tree Kangaroo; European Bison; Oryx; Tapir; Yellow-billed Duck; Jungle Fowl; Grey Lag Goose.

The chief gifts of animals were :-

4 European and 5 American Bison, by the President; 2 young Brown Bears by Viscount Downe.

The most interesting births included:—

2 Chapman's Zebra foals; 3 Tiger cubs; 1 Yak calf; 3 Common Rheas; 1 Emu; 2 Sarus Cranes; 4 Canadian

Beavers; 13 Brush Turkeys; 1 Sambar Deer; 5 Nylghaie; 1 Brindled Gnu calf; 1 Anoa; 1 Porcupine.

Our chief losses were :-

1 Brindled Gnu calf; 4 Canadian Beavers; 5 Brush Turkeys; 1 Ostrich; 2 Virginian Deer; 3 Axis Deer; 2 Western Waterbuck; 1 Giraffe; 2 Chapman's Zebras; 1 Hog Deer; 6 Swamp Deer.

66. Whipsnade Park. New Works for 1935.—The Council found it possible at the end of 1934 to sanction some new works for Whipsnade and it is hoped that these will be ready before Whitsuntide.

Elephant House.—Although the four elephants now at Whipsnade are taken out for exercise every morning when the weather is suitable, the quarters for three of them are only temporary wooden huts, in which for reasons of safety it has been necessary to hobble the animals when they are indoors. A new Elephant House, of fireproof re-inforced concrete, is being built on the great lawn at one end of the existing elephant ride. It consists of four circular huts with a bathing pool and a covered shelter for visitors. It will be properly ventilated and heated. The elephants will have much more room, and because of the strength of the construction of the house, it will be unnecessary to hobble them.

Extension to Farm Restaurant.—A glass-fronted extension to the loggia of the central Restaurant will be in use, it is expected, before this Report is in circulation. During the summer season it will give large additional accommodation for luncheons, teas and dinners, and it has windows opening on the deer-park. In winter it will provide sufficient room for all classes of visitors without the need of opening the Cloisters which are difficult to warm.

Lavatories and Waiting Room.—These, with accommodation for both sexes, are being constructed at a few yards from the Main Entrance at the point where the road leading to the Restaurant leaves Central Avenue.

67. CHILLINGHAM WHITE PARK CATTLE.—As described in the Report for 1931, p. 58, paragraph 65, the Council, in view of the grave danger threatening the existence of the unique herd of English White Park Cattle at Chillingham Castle, Northumberland, agreed to contribute the sum of £100 a year for seven years towards their support. Three Trustees, Sir Peter Chalmers Mitchell, Chairman, the late Viscount Grey of Fallodon and Mr. Hugh S. Gladstone, with the approval of Council, took a lease from the Earl of Tankerville of the Park and Cattle for a period of seven years at £500 per annum of which £250 was the rental value and £250 towards the cost of maintenance.

After the death of Viscount Grey of Fallodon, the Council, after giving local residents the opportunity of suggesting a successor, approved the nomination of Captain Cecil Graves, M.C., Lord Grey's heir, as a third Trustee.

The herd and the arrangements made by the Trustees, with the approval of Council, were fully described in the Annual Report for 1932 (pp. 55 and 56). The need for preservation remains and it is hoped that individual Fellows of this Society will contribute towards the cost. During 1934, in addition to the Society's contribution of £100, subscriptions and donations amounted to £73 2s. A balance carried forward from 1933 amounted to £94 10s. 1d., and the balance of the £500, amounting to £232 7s. 11d. was defrayed from the income of the De Arroyave Trust Fund.

(Since the Society's accounts were printed, certified accounts with vouchers for 1934 have been received from the Trustees showing a balance of £7 16s. 11d. to be carried forward to the cost of maintenance during the current year.)

68. 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 1934 are Mr. Alfred Ezra, F.Z.S., Mr. Eric C. Johnson, C.M.Z.S., The Hon. Anthony Chaplin,

F.Z.S., Mr. G. C. Upstone, C.M.Z.S., Mr. Stanley Woodward, C.M.Z.S., Mr. J. J. Morris, C.M.Z.S., Captain P. Jeffs, C.M.Z.S., Mr. A. St. Alban Smith, F.Z.S., the Bombay Natural History Society, the Zoological Gardens of Calcutta, Messrs. Alfred Holt & Co., Messrs. Henderson & Co., the Ellerman Line, the P. & O. Steamship Co., the Union-Castle Steamship Co., Messrs. Elders & Fyffes, and the British India Steam Navigation Co., through Messrs. Gray, Dawes & Co., and Messrs. Mackinnon, Mackenzie & Co.

69. Commissariat.—In the following table are given the quantities of the principal kinds of food, etc., consumed in the Gardens in 1934:—

Class.	Description.	Number or Quantity.	
Fodder, etc	Hay	145 tons.	
,,	01	140½ tons.	
,,	Straw	122 tons.	
,,	Tares	24,472 bundles.	
,,	Peat-Moss Litter	35 bales.	
Grain, etc	Oats	450 qtrs.	
,,	Bran	182 qtrs.	
,,	Wheat	66½ qtrs.	
,,,	Wheat-Mixture	30½ qtrs.	
,,	Barley Meal	141 cwts.	
,,	Maize	47\frac{3}{4} qtrs.	
,,	Locust Beans	73 cwts.	
,,	Danna	14½ qtrs.	
,,	Rice	55 cwts.	
,,	Canary Seed	24 qtrs.	
,,	Hemp Seed	11½ qtrs.	
,,	Millot	61 qtrs.	
,, .	Millet Spray	54 bunches.	
,,	Sunflower-seed	20 qtrs.	
Fish	Dlaige	1 ton, 17½ cwts.	
,,	Hamings and Whiting	42 tons, 161 cwts.	
,,	Cl. minor o	1,089 pints.	
Flesh	Horse-flesh	2691 tons.	
Milk	Condensed—Sweetened		
,,	Unamastanad		
Nuts	Chanish	156 qtrs.	
	Manlan	189 cwts.	
	D '1	104 lbs.	
,,	M' 1	00 W 11	

Class.	(Yazis	Description	on.		Number or Quan	tity.
Fruit, etc.		Bananas	:.		203,064.	STATE OF
,,		Apples			10 tons, $4\frac{1}{2}$ cw	ts.
,,		Grapes			3 tons, $4\frac{3}{4}$ cwt	s.
,,		Oranges			21,344.	
,,		Dates			14 cwts., 11 qr	s.
,,		Currants			12 cwts.	
,,		Sultanas			52 lbs.	
,,		Lettuce			25,236.	
,,		Greens			2,8181 bushels	
,,		Carrots			11 tons, 5 cwts.	
,,		Tomatoes				nches
-,,		Potatoes			26 tons	
,,		Onions			$7\frac{3}{4}$ cwts.	
,,		Mangolds			31 tons, 3 cwts	3.
,,		Beetroot			91 roots.	and a st
,,		Celery			184 heads.	
,,		Cucumbers			154.	
Miscellaneo		Biscuits			21 tons.	ahba'
		Biscuit Meal			12 tons, 6 cwts	
,,		Honey			4 cwts.	
,,		Bread			5 tons, 13\frac{3}{4} cw	ts
",		T			26,100.	us.
,,		Sugar			10½ cwts.	
,,		Ant-eggs			440 lbs.	
,,		Mealworms			686 lbs.	
,,		Dried Flies		10000	728 lbs.	
,,		T) TT 11			100 11	
,,		~ 17 ~		100000	257 lbs.	
,,		11 35 11 11				
,,		Oilcake			Many jars. 30 cwts.	
,,	•••	Oncaro	••	• •	JO CW US.	
70. No	JMBI	ERS OF THE CO	LLECT	TON		
Animals	in	the London Gar	dens	on D	ecember 31st, 1	934.
		kinds (except				1
					and the second s	9 75
						3,75
Animals o	fall	kinds (except	Fish a	and.	Invertebrates)	
received	l in	1934 by p	resent	tatio	n, exchange,	
		chase or birth				2.34
deposit,	Par	onder of onth	•••			-
4	. 11	1:1/	77. 1			6,10
		kinds (except				
dead, se	old,	sent in excha	ange,	or	returned to	
					molt	2 33
					Invertebrates)	
in the G	rard	ens on Decemb	er 31	St. I	934	3.77

Additions to the Collection, 1932-34.

Prese	entation.	Purchase.	Deposit.	Exchange.	Birth.	TOTAL.
1932	960	587	182	118	311	2,158
1933	929	569	123	209	251	2.081
1934	1,098	541	96	197	417	2,349

Animals at Whipsnade on December 31st, 1934.

Mamma	ls	equiand	 	 524
Birds		This	 ona. 5	 404

[In the case of the Chinese Water Deer and the Muntjac, loose in the Park and breeding freely, the numbers are only an estimate.]

71. Bred in the London Menagerie. 1934.

Mammals.

- January 1 Indian Fruit Bat (Pteropus giganteus), died when a few days old.
 - ", 1 Matschie's Tree Kangaroo ♀ (Dendrolagus matschiei), reared.
- February 2 Sumichrast's Night Mice (Nyctomys sumichrasti), reared.
 - ,, 2 Fat Sand Rats (Psammomys obesus), reared.
- March 6 Dingoes ♂♂♂♀♀♀ (Canis familiaris dingo), reared.
- ,, 1 Black Wallaby 3 (Macropus ualabatus), reared.
 - " 1 Brown Lemur 3 (Lemur fulvus), reared.
 - ,, 2 Grey Squirrels (Sciurus carolinensis), reared.
 - ,, 1 Binturong (Arctictis binturong), died when young.
 - ", 2 Lechwe Waterbuck 33 (Kobus leche), reared.
 - " 1 Grévy's Zebra Q (Equus grevyi), reared.

April	1	Mouflon ♀ (Ovis musimon), reared.
,,	1	Patagonian Cavy 3 (Dolichotis magellanica), reared.
2481	1	Pygmy Hippopotamus Q (Choeropsis liberiensis), reared.
,,	2	Barbary Wild Sheep $\Im Q$ (Ammotragus lervia), reared.
,,	3	Blackbuck 399 (Antilope cervicapra), reared.
,,	2	Eland Antelopes Q (Taurotragus oryx), 1 reared.
,,	3	Barbary Wild Sheep ♂♂♀ (Ammotragus lervia), reared.
,,	3	Mouflon ∂♀♀ (Ovis musimon), reared.
,,	1	Red Wallaroo & (Macropus robustus rubens), reared.
,,,	3	Fat-tailed Gerbils (Pachyuromys duprasi), reared.
,,	5	Shaw's Jirds (Meriones shawii), reared.
,,	2	Timber \times Common Wolves $3Q$ (Canis lupus occidentalis \times C. lupus), reared.
May	1	Patagonian Cavy (Dolichotis magellanica), reared.
,,	3	Barbary Wild Sheep ♂♀♀ (Ammotragus lervia), reared.
,,	2	Moholi Bush Babies (Galago moholi), died when young.
,, ,,	1	Reindeer & (Rangifer tarandus), reared.
,,	1	Brown Lemur & (Lemur fulvus), reared.
,,	1	Big-horned Sheep 3 (Ovis canadensis), died when a few days old.
,,	2	Hybrid Punjab × Cyprian Wild Sheep QQ (Ovis vignei × O. ophion), reared.

1 Sooty Mangabey (Cercocebus fuliginosus), died May when a few days old. 1 Pig-tailed Monkey ♀ (Macaca nemestrina). reared. 1 Reedbuck ♀ (Redunca arundinacea), reared. 1 American Bison & (Bison bison), reared. 1 Grecian Wild Goat 3 (Capra hircus aegagrus). reared. 1 Persian Gazelle 3 (Gazella subgutturosa). reared. June 2 Caucasian Wild Goats 3♀ (Capra caucasica). died when young. 1 Hartmann's Mountain Zebra 3 (Equus zebra hartmanni), reared. 6 Common \times Indian Wolves (Canis lupus \times C. pallipes), died when young. 1 Hog Deer (Hyelaphus porcinus), died when young. 1 Californian Sea Lion 3 (Zalophus californi-23 anus), reared. 2 Hangul Deer ♂♀ (Cervus hanglu), reared. 23 1 Cape Buffalo & (Syncerus caffer), reared. 33 3 Lesser Egyptian Gerbilles (Gerbillus gerbillus), 22 2 reared. 2 Short-headed Flying Opossums (Petaurus breviceps), reared. 3 Polecats (Putorius putorius), reared. 1 Thar 3 (Hemitragus jemlahicus), reared. " July 2 Hairy Armadillos (Euphractus villosus), died when young. 2 Salt Desert Cavies 3♀ (Dolichotis salinicola). reared. 3 Thar ∂QQ (Hemitragus jemlahicus), reared.

,,

July	1 Crested Porcupine Q (<i>Hystrix cristata</i>), reared.	
,,	1 Pig-tailed Monkey 3 (Macaca nemestrina),	
	reared.	
,,	1 Patagonian Cavy (Dolichotis magellanica),	
	reared.	
,,	2 Nylghaie ♀♀ (Boselaphus tragocamelus), reared.	
,,	1 Hog Deer ♀ (Hyelaphus porcinus), reared.	
August	1 Hog Deer ♀ (Hyelaphus porcinus), reared.	
,,	1 Brazilian Tapir ♀ (Tapirus terrestris), reared.	
,,	1 Yak \circ (Poephagus grunniens), reared.	
,,	1 Llama of (Lama glama), reared.	
September	r 1 Hog Deer ♀ (Hyelaphus porcinus), reared.	
,,	1 Hybrid Kiang × Circassian Donkey ♀ (Equus	
	$kiang \times E. asinus$), reared.	
,,,	1 Shetland Pony (Equus caballus), died when a	
	day old.	
,,	1 Yak Q (Poephagus grunniens), died when a	
	few days old.	
,,	1 Red Wallaroo & (Macropus robustus rubens), reared.	
Ootobor	1 Red Wallaroo (Macropus robustus rubens),	
October	reared.	13
	5 Fat-tailed Gerbils (Pachyuromys duprasi),	
,,	reared.	
November	r 4 Blackbuck (Antilope cervicapra), reared.	
***************************************	2 Binturong ♂♀ (Arctictis binturong), reared.	
	1 Lion cub (Felis leo), died when young.	
"	1 American Bison (Bison bison), died when a	b
,, lan	day old.	
December	r 1 Hairy-rumped Agouti 3 (Dasyprocta prymnolopha), still alive.	9
,,	1 American Bison & (Bison bison), still alive.	
,,	1 Arabian Camel & (Camelus dromedarius), stil	1
reared.	alive.	

Birds.

March	1 Swainson's Lorikeet (Trichoglossus moluc- canus), reared.
April	3 Hybrid Fischer's & Nyasaland Lovebirds (Agapornis fischeri × A. lilianae), reared.
May	1 Swainson's Lorikeet (Trichoglossus moluc- canus), reared.
June	2 Australian Black-breasted Plovers (Zonifer tricolor), reared.
,,	2 Masked Grass Finches (Poephila personata), reared.
- ,,	2 Night Herons (Nycticorax nycticorax), reared.
,,	3 African Sacred Ibis (Threskiornis æthiopicus), reared.
"	3 Fischer's Lovebirds (Agapornis fischeri), reared.
,,	4 Silver Gulls (Larus novæ-hollandiæ), reared.
July	3 Black-tailed Parrakeets (Polytelis anthopeplus), reared.
,,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,	2 Elegant Grass Parrakeets (Neonanodes elegans), reared.
12.25 (S)	1 Barnard's × Red-rumped Parrakeet (Barnardius barnardi × Psephotus hæmatonotus), reared.
,,	6 Australian Wild Ducks (Anas superciliosa), reared.
,,	3 Mandarin Ducks (Aix galericulata), reared.
,,	2 Carolina Ducks (Aix sponsa), reared.
,,	1 Ross's Snow Goose (Chen rossi), reared.
August	4 Hybrid Fischer's × Nyasaland Lovebirds (Agapornis fischeri × A. lilianae), reared.
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3 Elegant Grass Parrakeets (Neonanodes elegans), reared.

- 2 Illiger's Macaws (Ara maracana), reared. August
- September 1 Chinese Silver Pheasant (Gennœus nycthemerus), reared.
 - 2 Masked Lovebirds (Agapornis personata), reared.
 - 1 Bel's Pheasant (Gennœus beli), reared.
 - 2 Black-breasted Kalij Pheasants (Gennœus horsfieldii), reared.
- 3 Hybrid Fischer's × Nyasaland Lovebirds October (Agapornis fischeri × A. lilianæ), reared.
 - 40 Budgerigars (Green)
- 24 Budgerigars (Blue var.) During 4 Budgerigars (Olive var.)

1934.

1 Budgerigar (Yellow var.) 5 Budgerigars (White var.)

(Melopsittacus undulatus), all reared.

Reptiles.

- 83 Cape Snakes (Pseudaspis cana), died when April young.
- 24 Russell's Vipers (Vipera russelli), died when June young.
- September 4 Oregon Rattlesnakes (Crotalus oreganus), died when young.

BRED AT WHIPSNADE. 1934.

Mammals.

- 7 Tibetan Mastiffs 4332 (Canis familiaris var.), reared.
 - 1 Llama (Lama glama), reared.
- February 5 Dingoes 2332 (Canis familiaris dingo), 3 reared.

February 1 Llama 3 (Lama glama), reared.

" & March. 26 Spanish Sheep (Ovis aries var.), reared.

" & March. 20 Park Sheep (Ovis aries), reared.

March 1 Chartley calf (Black var.) (Bos taurus), died when 4 days old.

1 Spotted Deer (Axis axis), reared.

April 1 Highland calf ♀ (Bos taurus), reared.

3 Mouflon ♂♂♀ (Ovis musimon), reared.

May 1 Yak ♀ (Poephagus grunniens), reared.

23

23

1 Highland calf of (Bos taurus), reared.

1 Anoa ♀ (Anoa depressicornis), reared.

1 Brindled Gnu ♀ (Connochætes taurinus), died when 1 day old.

2 Shetland Ponies QQ (Equus caballus), reared.

2 Nylghaie (Boselaphus tragocamelus), reared.

June 1 Nylghaie (Boselaphus tragocamelus), reared.

1 Chartley calf & (Bos taurus), reared.

8 Red Deer (4 White var.) (Cervus elaphus), reared.

1 Grey Kangaroo Q (Macropus giganteus), reared.

1 Chapman's Zebra & (Equus burchellii chapmanni), reared.

2 Sika Deer ∂♀ (Cervus sika), 1 reared.

1 Highland calf o (Bos taurus), died when young.

1 Virginian Deer Q (Odocoileus virginianus), reared.

1 Shetland Pony ♀ (Equus caballus), reared.

1 Sambar Deer & (Rusa unicolor), reared.

July 3 Tiger cubs (Felis tigris), reared.

15 Hybrid Common × Timber Wolves (Canis lupus × C. l. occidentalis), 8 reared.

July 8 Fallow Deer (Dama dama), reared.

August 4 Canadian Beavers (Castor canadensis), died when young.

2 Nylghaie (Boselaphus tragocamelus), reared.

September 1 Llama ♀ (Lama glama), reared.

1 Sumatran Porcupine (Hystrix longicauda), reared.

December 1 Llama (Lama glama), still alive.

30 Chinese Water Deer (Hydropotes inermis), reared.

During 1934.

12 Muntjac (Muntiacus muntjak), reared.

10 Bennett's Wallabies (Macropus ruficollis bennetti), reared.

5 Woodchuck (Marmota monax), reared.

Birds.

March 1 Emu (Dromiceius n. hollandiæ), reared.

July 2 Sarus Cranes (Megalornis antigone), reared.

3 Common Rheas (White var.) (Rhea rothschildi), reared.

8 Brush Turkeys (Alectura lathami), reared.

15 Common Peafowl (Pavo cristatus), reared.

23 North American Turkeys (Meleagris americana).

During 1934.

22

12 Japanese Long-tailed Fowl (Domestic var.).

20 Jungle Fowl (Gallus gallus), reared.

6 Indian Chukor Partridges (Alectoris græca chukar), reared.

20 Lady Amherst's Pheasants (Chrysolophus amherstiæ), reared.

73. LIST OF SPECIES NEW TO THE COLLECTION IN 1934.

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

I.—MAMMALS.

- 155a. Galago senegalensis Geoffroy. Senegal Galago. Hab. Gambia.
 - a. Presented by E. C. Johnson, Esq., C.M.Z.S., September 17th, 1934.
- 158a. Galago panganiensis Matsch. Pangani Galago. Hab. Aberdare Mountains, Kenya. a-b. Purchased July 12th, 1934.
- 166a. Erinaceus algirus caniculus Thomas. Canarian Hedgehog.

Hab. Teneriffe.

- a. Presented by J. J. Morris, Esq., C.M.Z.S., July 28th, 1934.
- 189a. Pteropus eotinus Anderson. Reddish Fruit Bat. Hab. New Hebrides.
 a-c. Purchased April 20th, 1934.
- 189b. Pteropus geddei MacGillivray. Geddes' Fruit Bat. Hab. New Hebrides.
 a-b. Purchased April 20th, 1934.
- 765a. Giraffa camelopardalis rothschildii Lydekker. Baringo Giraffe.

Hab. Kenya.

a-c. Purchased June 21st, 1934.

II.—BIRDS.

195c. Myzomela cardinalis (Gm.) Cardinal Honeyeater.

Hab. New Hebrides.

a-d. Deposited April 18th, 1934.

206a. Hypargos margaritatus (Strickl.) Verreaux's Spotted Fire Finch.

Hab. S.E. Africa.

a-b. Deposited January 10th, 1934.

243a. Erythrura regia (Scl.) Royal Parrot Finch.

Hab. New Hebrides.

a-b. Purchased April 20th, 1934.

374a. Hesperiphona vespertina (Cooper). Evening Grosbeak.

Hab. Canada.

a-f. Presented by Prof. W. Rowan, F.Z.S., April 30th, 1934.

597a. Glyciphila incana flavotincta (Gray). Yellowtinted Honey-eater.

Hab. New Hebrides.

a-c. Deposited April 20th, 1934.

641a. Dendrornis eytoni (Sclater). Eyton's Tree Runner.

Hab. Amazon.

a. Presented by R. de Quincey, Esq., July 23rd, 1934.

748a. Myiophoneus flavirostris Horsf. Yellow-billed Whistling Thrush.

Hab. Java.

a-b. Deposited October 20th, 1934.

795a. Mimus lividus (Licht.) Blue-grey Mocking Bird. Hab. E. Brazil.

a. Deposited March 5th, 1934.

799a. Pycnoptilus floccosus Gould. Pilot Bird. Hab. S.E. Australia.

a. Presented by Norman Nicholson, Esq., May 29th, 1934.

836a. Chloropsis viridis (Horsf.) Javan Fruitsucker. Hab. Java.

a. Deposited July 20th, 1934.

928a. Monacha nigrifrons (Spix). Black-fronted Puff Bird.

Hab. Brazil.

a. Presented by C. Cordier, Esq., December 4th, 1934.

982b. Phaethornis pygmaeus Bp. Pygmy Hermit Humming Bird.

Hab. Brazil.

a. Received in exchange, May 18th, 1934.

989d. Agyrtrina affinis (Gould). Short-billed Emerald Humming Bird.

Hab. Brazil.

a. Presented by R. de Quincey, Esq., May 8th, 1934.

989e. Agyrtrina leucogaster (Gm.). White-bellied Emerald Humming Bird.

Hab. Brazil.

a-c. Presented by R. de Quincey, Esq., May 8th, 1934.

990a. Discura longicauda (Gm.). Racquet-tail Humming Bird.

Hab. Brazil.

a-b. Presented by R. de Quincey, Esq., May 8th, 1934.

991a. Heliothrix auriculata (Nordm). Auriculated Humming Bird.

Hab. Brazil.

a. Deposited December 3rd, 1934.

1355a. Otus capensis socotranus. O. Grant & Forbes. Socotran Scops Owl.

Hab. Sokotra.

a. Presented by Lt.-Col. the Hon. M. T. Boscawen, April 30th, 1934.

1818b. Scarciophorus tectus (Bodd.). Abyssinian Crowned Lapwing.

Hab. Abyssinia.

a-b. Purchased July 12th, 1934.

1941a. Creciscus melanophais (Gray). White-breasted Crake.

Hab. Brazil.

a-b. Purchased December 4th, 1934.

1976b. Treron nipalensis (Hedg.). Thick-billed Green Pigeon.

Hab. Malaya.

a-d. Presented by W. N. Carruthers, Esq., C.M.Z.S., March 12th, 1934.

2153a. Colinus cubanensis Gould. Cuban Quail.

Hab. Cuba.

a-f. Purchased March 6th, 1934.

2186a. Margaroperdix madagascariensis (Scop.). Madagascar Partridges.

Hab. Madagascar.

a-b. Presented by Alfred Ezra, Esq., O.B.E., F.Z.S., September 28th, 1934.

III.—REPTILES.

62a. Kinixys natalensis Hewitt. Hewitt's Hinged Tortoise.

Hab. South Africa.

a. Presented by John Hewitt, Esq., C.M.Z.S., October, 9th, 1934.

280a. Uromastyx ornatus Von Heyden. Ornate Dabb Lizard.

Hab. Kuwait, Arabia.

a-c. Presented by Mrs. V. P. Dickson, F.Z.S., July 4th, 1934.

486b. Natrix maculatus Edeling. Edeling's Grass Snake.

Hab. Malaya.

a. Presented by A. St. Alban Smith, Esq., F.Z.S., July 5th, 1934.

506b. Zaocys fuscus Gunther. Reddish Rat Snake. Hab. S. Asia.

a-b. Presented by A. St. Alban Smith, Esq., F.Z.S., December 28th, 1934.

689a. Aspidelaps lubricus Laurenti. South African Coral Snake.

Hab. S. Africa.

a-b. Purchased March 12th, 1934.

IV.—AMPHIBIANS.

98e. Hyla corticalis Burmeister. Fringe-Armed Tree Frog.

Hab. Brazil.

a. Presented by H. Rew, Esq., July 20th, 1934.

V.—PISCES.

35a. Nannæthiops unitaeniatus Gunther. Goldenlined Fish.

Hab. South America.

a-l. Purchased June 15th, 1934.

40a. Hyphessobrycon serpae Durbin. Black-and-white-finned Fish.

Hab. South America.

a-l. Purchased June 15th, 1934.

83a. Clarias senegalensis Cuv. & Val. Senegal Catfish.

Hab. West Africa.

a-c. Purchased November 24th, 1934.

189a. Tilapia zilii Gerv. Lake Galilee Cichlid. Hab. Africa.

a. Purchased November 24th, 1934.

223a. Ophicephalus obscurus Gunther. Blotched Snakeheaded Fish.

Hab. West Africa.

a. Purchased November 24th, 1934.

237a. Eleotris vittata A. Dum. West African Goby. Hab. West Africa.

30. Purchased November 24th, 1934.

74. List of Donors.

I.—TO LONDON GARDENS.

Adams, Mrs., 1 White-headed Mannakin, 2 Cut-throat Finches, 1 Paradise Whydah Bird, 1 African Silver Bill, 4 Common Waxbills, 2 Lavender Finches, 1 Crimson-eared Waxbill, 1 Bronze-winged Mannakin, 1 Zebra Waxbill.

APTHORP, Miss M., 1 Two-spotted Palm Civet.

Aranha, Dr. O. E. de S., 4 Fulvous Tree Ducks, 2 Whitefaced Tree Ducks, 2 Javan Tree Ducks, 4 Bahama Ducks, 2 Scarlet Ibis.

ARUNDELL, The Rev. D., 1 Greater Spotted Woodpecker. Ashdown, Miss D., 1 Greek Tortoise.

ASTLEY, Mrs., 2 Buzzards.

Augen, Mrs. E., 1 Brown Capuchin Monkey.

AYLESFORD, The Earl of, F.Z.S., 1 Wolf.

Bahr, Dr. P. H. Manson-, D.S.O., F.R.C.P., F.Z.S., 1 Pin-tailed Whydah Bird, 3 Red-legged Partridges.

Baily, Mrs. D. Shore, 2 Harris's Sparrows.

Ball, R., 3 Butterfly Fish.

BARFORD, Captain L. H., 1 Shaw's Jird.

BARKER, R., 1 Cormorant.

Barraclough, F., 1 Kestrel.

Bartlett, Mrs. Wathen-, 4 South American Giant Toads.

Barwise, D. R., 1 Mona Monkey.

Beckett, T. R., 1 West African Marsh Buck.

Bedford, H.G. The Duke of, K.G., F.R.S., President, A Collection of Golden Trout and Salmon parr.

Bell, Miss St. John, 1 Greek Tortoise.

Bellerby, C. W., 6 Smooth-clawed Frogs.

Berkeley, R. G. W., F.Z.S., 1 Jackdaw.

BEVAN, The Hon. Dame Maud, D.B.E., 1 Carolina Duck.

Blake, J. H., 2 Chinese Mynas.

Borman, Major F. W., F.Z.S. (in conjunction with Major L. Coleman Smith), 3 Polecats.

Boscawen, Lt.-Col. the Hon. Mildmay T., D.S.O., M.C., 1 Socotran Scops Owl.

Bowen, A. E., 2 Common Waxbills, 2 Crimson-eared Waxbills.

Bowles, J., 1 Diamond Python.

BOWMAN, Miss C., 5 Mealy Redpolls, 17 Budgerigars.

Boyd, A. Lennox-, M.P., 1 Bosman's Potto.

Boyd, B. J., 1 Albino Grey Squirrel.

BOYT, Mrs., 1 Calandra Lark.

Brebner, Mrs., 3 Pygmy Chameleons.

Breen, J. P., 1 Slender Tree Snake.

Brion, Mrs. H. H., 1 Dwarf Sulphur-crested Cockatoo.

Bristow, Miss Sidney, 1 Shaw's Jird.

Brown, C., 1 Marmoset.

Brown, Mrs. L. T., 1 Northern Blue-tongued Lizard.

Brundell, Thomas, 1 Martinique Gallinule.

Buck, Mrs. M., 1 Carolina Duck.

Burton, Peter, 2 European Tree Frogs.

Buxton, Mrs. D. A. J., 2 Shaw's Jirds.

Buxton, Dr. P. A., F.Z.S., 1 Fat-tailed Gerbil.

CAIRNS, Mrs., 1 Little Owl.

CAMBRIDGE, R. A., 1 North African Jackal.

CAMPBELL, G., 1 European Pond Tortoise, 1 Reeves' Terrapin.

CANTEVATT, Miss Pamela, 1 Greek Tortoise.

Carden, Miss Heather, 1 Blue-fronted Parrot.

Carruthers, W. N., C.M.Z.S., 1 Sambar, 3 Argus Pheasants, 1 Bornean Fire-backed Pheasant, 1 Rufoustailed Pheasant, 2 Malay Necklace Doves, 1 Barred Ground Dove, 2 Indian Pied Hornbills, 5 Baya Weaver Birds, 6 Red-eared Bulbuls, 1 Malayan Yellow-vented Bulbul, 4 Thick-billed Green Pigeons, 3 Water Rails, 1 Grey-headed Gallinule, 1 Black-crested Bittern, 5 Javan Tree Ducks.

CATESBY, J. F., 1 Roseate Cockatoo.

CECIL, H. K., 1 Marmoset.

CHANCE, Miss A. E. R., 1 Marmoset.

CHAPLIN, The Hon. Anthony, F.Z.S., 2 Pandas, 1 Aztec Jay, 1 Falkenstein's Sunbird.

Chapman, the late, G. B., F.Z.S., 2 Stanley Parrakeets, 4
Crimson-winged Parrakeets, 1 Black-tailed Parrakeet,
17 Bauer's Parrakeets, 1 Brown's Parrakeet, 2 Manycoloured Parrakeets, 1 Yellow-collared Parrakeet, 1
Pennant's Parrakeet, 1 Cockatiel, 3 Leadbeater's
Cockatoos, 4 Banksian Cockatoos, 2 Swainson's
Lorikeets, 2 Red-collared Lorikeets.

CHESTER, Mrs., 2 Duikers.

CLARE, Mrs. George, 1 Ceylon Myna.

CLARKE, F. W., 1 Thigh-striped Wallaby.

CLARKE, Miss, 1 Brown Capuchin.

CLAYTON, Mrs., 1 Weeper Capuchin Monkey.

Congreve, Lady, 1 Malay Shama.

Connolly, Mrs., 1 Ring-tailed Lemur.

CORDIER, C., 1 Black-fronted Puff Bird.

Crabbe, Major A. Bingham, 2 Siamese Terrapins.

CRANMER, Mrs. H. T., 1 Greater Sulphur-crested Cockatoo.

CROWTHER, W. C., M.A., F.Z.S., 3 Budgerigars, 1 Budgerigar (Cobalt var.).

Cubitt, Dr. H. G. F., F.Z.S., 1 Indian Shama.

Daux, M., 2 Greek Tortoises.

DAWKINS, Mrs. Clinton, 1 Hoolock Gibbon.

Delacour, J., F.Z.S., 3 American Kestrels.

Delysia, Madame, 1 Horned Cerastes Viper.

Dennis, C. B., 5 Viviparous Lizards.

DE QUINCEY, R., 2 Racquet-tailed Humming Birds, 3 White-bellied Emerald Humming Birds, 1 Short-billed Emerald Humming Bird, 1 Blue-chined Humming Bird, 2 Lesson's Emerald Humming Birds, 1 Jacobin Humming Bird, 2 Wood Nymph Humming Birds, 1 Sooty Grosbeak, 1 Eyton's Tree Runner.

DEW, H., 1 Brazilian Tree Frog.

DEWHURST, Major F. W., R.M., 1 Great Eagle Owl.

Dickson, Mrs. V. P., F.Z.S., 4 Lesser Egyptian Jerboas, 3 Lesser Egyptian Gerbilles, 3 Ornate Dabb Lizards, 1 Caffer Cat.

Domone, M., 1 Bushy-tailed Bush Baby.

Downs, Commander M. B., 3 Bowfins.

Du Maurier, Lady, 4 Collared Turtle Doves (White var.).

DVORKOWITZ, B., 1 Common Waxbill.

EDGAR, A. T., 1 Slow Loris (White var.).

EDWARDS, W. Harold, 1 Binturong.

ELDRIDGE, H. A., 1 Flap-necked Chameleon.

Ellis, O. R. S., 1 Spectacled Cayman.

Elphick, Dr. G. J. F., F.Z.S., 1 Martinique Gallinule, 1 Purplish Guan.

EMERY, A. C., 1 Tawny Owl.

English, Dr. W. L., F.Z.S., 1 Three-banded Douroucouli.

Ezra, Alfred, O.B.E., F.Z.S., 2 Houbara Bustards, 2 Madagascar Partridges, 4 Delalande's Fruit Pigeons, 2 Stair's Monkeys, 4 Red-headed Squirrels, 2 Leopard Tortoises, 8 Mandarin Ducks, 2 Fulvous Tree Ducks, 3 Humboldt's Bare-throated Francolins, 2 Blyth's Horned Pheasants.

Fabre, L. W., 1 Red Kangaroo.

FAHN, K. S., F.Z.S., 1 Giant Toad.

FAIRBAIRN, P. E., 1 African Civet.

FAIRBANK, H. A. T., F.R.C.S., D.S.O., O.B.E., 1 Zebra Waxbill.

FARNDALE, Mrs., 1 African Silverbill.

FARRANT, Mrs., 1 Grey Parrot.

Feaver, J. S., 1 Combasou.

FINDLAY, G. M., 1 Pruner's Hedgehog.

FITT, Malcolm, F.Z.S., 1 Humboldt's Woolly Monkey.

Forbes, Mrs. Rosita, 2 Marmosets.

FOSTER, M. (in conjunction with V. W. Ryves), 1 Tiger.

Frederick, Miss L. M., F.Z.S., 1 Pygmy Chameleon.

FRENCH, William, 1 Grass Snake.

FRIEND, V. C., 1 Hawkbill Turtle.

Frost, N., 1 Greater Sulphur-crested Cockatoo.

Frost, W. J. C., 1 White-throated Ground Thrush, 2 Silver-eared Mesias, 2 Victoria Crowned Pigeons.

GARDINER & Sons Ltd., Messrs. J., 1 Common Viper.

GARDNER, Mrs. D., 1 Wild Rabbit, 2 Greek Tortoises.

GERRARD, Thomas, F.Z.S., 6 Edible Frogs.

GIBSON, A., 1 Greek Tortoise.

GLADITZ, Mrs. W. J., 1 Serrated Terrapin.

GLOSSOP, C. W. H., M.P., 2 Pygmy Chameleons.

GOLDBERG, Mrs. P. J., 1 Budgerigar.

Graham, Mrs. Maxtone, 1 Barn Owl.

GREEN, Mrs. Kirby, 2 North African Jackals.

Greet, Mrs. D. V., 1 African Silverbill, 2 Orange-cheeked Waxbills, 1 Avadavat, 1 Yellow-throated Rock Sparrow, 4 Heck's Long-tailed Grass Finches, 1 Long-tailed Grass Finch, 1 Masked Grass Finch, 1 Sparrow, 6 Canaries, 2 Malay Shamas, 1 Virginian Cardinal, 1 Red-crested Cardinal, 1 Dominican Cardinal, 2 Pekin Robins, 1 Common Hangnest, 1 Southern Hill Myna, 3 Java Sparrows (2 white var.), 3 Orange Weaver Birds, 5 Red-beaked Weaver Birds, 2 White-throated Finches, 2 Pectoral Finches, 3 Pin-tailed Whydah Birds, 1 Common Waxbill, 1 Nonpareil Finch, 2 Little Masked Weaver Birds, 1 Red-headed Bunting, 2 Paradise Whydah Bird.

Grove, Capt. A. Dudley, 1 Striped Hyæna, 1 Spotted Hyæna, 1 Red River Hog, 4 Saddle-billed Storks, 6 West African Crowned Cranes, 1 Hammer-headed Stork, 1 African Spoonbill, 2 Senegal Thicknees, 1 White-bellied Stork.

Hall, Mrs. W. D., 1 Kinkajou.

Hanson, Mrs., 1 Cuckoo.

Hanson & Sons Ltd., Messrs. Samuel, 1 Barn Owl.

Harris, Capt. C. F., R.N., 1 Dorcas Gazelle, 1 Arabian Gazelle.

HARRISON, D., 1 Small-lobed Chameleon.

HAWKINS, L. W., 1 Hybrid Parrot Finch.

HAYES, Mrs. C., 1 Jacarini Finch, 1 Common Waxbill.

Heathershaw, D. C. A., 1 Northern Blue-tongued Skink, 2 Bearded Lizards, 11 Stump-tailed Lizards.

Hewer, Dr. A. G., F.Z.S., 1 Red-crested Cardinal, 1 Dominican Cardinal.

Hewitt, John, C.M.Z.S., 3 Kuhl's Tortoises, 1 Tent Tortoise, 1 Hewitt's Hinged Tortoise.

HICKS, Mrs., 1 Little Masked Weaver Bird.

HILL, Mrs. M. S., 2 Chilean Eagles.

Hill, Prof. W. C. Osman-, M.D., C.M.Z.S. (P.Z.), 5 Starred Tortoises, 4 Toque Monkeys.

Hogan, Miss, 2 Eastern Chipmunk.

HOLDER, N. F., F.Z.S., 4 Shaw's Jirds.

Hollis, M. W., 1 White-fronted Capuchin.

Holmes, Mrs. Frank, 2 Arabian Foxes.

HOPKINS, F., 1 Giant Whydah Bird.

Hoskin, Dr. Jenner, 1 Elegant Grass Parrakeet.

Hughes, A., 1 Greek Tortoise.

Hughes, Lt.-Cdr. A. M., R.N., 1 Greater Flamingo.

Jackson, H. T. H., 1 Black-headed Mannakin, 1 Nutmeg Finch, 1 Pekin Robin, 1 Lavender Finch, 2 Common Waxbills, 2 Orange-cheeked Waxbills, 1 Zebra Waxbill, 1 Red-headed Bunting.

Jackson, Lady, 10 Budgerigars.

JARROD, Mrs. N. W., 1 Greek Tortoise.

JEFFRIES, Mrs., 1 Bushy-tailed Bush Baby.

JEFFS, Capt. P., M.C., C.M.Z.S., 24 Land Crabs.

Joel, Miss, 1 Brown Capuchin Monkey.

Johnson, E. C., C.M.Z.S., 3 Harnessed Antelopes, 1
Senegal Striped Weasel, 1 Serval, 1 Crested Porcupine,
1 Wart Hog, 2 Lion cubs, 1 Caracal Lynx, 1 Redflanked Duiker, 1 Side-striped Jackal, 3 Marsh Mongooses, 1 Giant Rat, 1 Senegal Galago, 8 Grey-breasted
Helmet Guineafowl, 5 Black-necked Crowned Cranes,
7 Red-beaked Weaver Birds, 1 Rufous-necked Weaver
Bird, 1 Napolean Weaver Bird, 1 Grey-headed
Sparrow, 1 Common Waxbill, 2 Marabou Storks, 1
Gannet, 28 African Pythons, 10 Bosc's Monitors, 4
Nile Monitors, 4 Nile Crocodiles, 2 Royal Pythons,
1 Graceful Chameleon, 12 Common African Toads,
90 Land Crabs.

Jolis, Mrs., 1 Blue-fronted Parrot.

Jones, J. W. Bertram, F.Z.S., 2 Black-winged Peafowl.

KENT, A., 1 Gannet.

KING, K. E. King-, 1 Ring-tailed Coati.

Kingdon, Sir Donald, 4 White-crested Tiger Bitterns, 2 Green-backed Little Bitterns, 1 Gambian Goshawk, 3 One-Lined Hawks, 1 Angolan Vulture, 1 Blackcrested Eagle, 1 Speckled Pigeon, 11 Schlegel's Doves, 4 Barn Owls.

KINGSTON WORKMEN'S CLUB ANGLING SOCIETY, 1 Common Carp.

KNOBEL, Miss E. M., F.Z.S., 1 Salle's Parrot, 1 Goldenfronted Fruitsucker, 1 Yellow-fronted White Eye, 1 Natal Robin Chat.

Kutch, H. H. the Maharao of, G.C.S.I., G.C.I.E., F.Z.S., 2 Indian Wild Asses.

Laing, Dr. D. F., 1 Pygmy Chameleon.

LAWRENCE, C. G., 2 Greek Tortoises.

LAWRENCE, D. G., 1 Fox.

LENNARD, Mrs. W. Barrett, 1 Brown Capuchin Monkey.

Lennon, J. R., 3 Schweigger's Hinged Tortoises.

LEPHARD, Mrs., 1 Greek Tortoise.

LEROY, Miss M., 1 European Pond Tortoise.

LEVICK, Mrs. Carlton, 1 Small Hill Myna.

"LLANDAFF CASTLE," Chief Officer, S.S., 1 Moholi Bush Baby.

LLOYD, Executors of the late V. H., 1 Seychelles Vasa Parrot.

Low, Mrs. Stanley, 1 Marmoset.

LUNDGREN, Col. F. J., C.M.Z.S., 1 Puma, 1 Ring-tailed Coati, 1 Boa Constrictor, 1 White Amphisbæna.

MacFarquhar, Mrs. J., 2 Laughing Kingfishers.

Magor, Mrs. R., 1 Kinkajou.

Mann, Mrs. E. M., 1 Red-eared Bulbul.

MARCHANT, A. E., 1 Cenchoa Snake.

MARTIN, Mrs. B. E., 2 Cheetahs.

MATTHEY, C., 1 Raddi's Skink.

Mellor, J., 1 Merlin, 1 North American Shore Lark.

METROPOLITAN POLICE, 1 Diced Water Snake, 1 Coot.

MILES, J., 1 Pruner's Hedgehog.

MILLER, A., 5 Black & White Cobras.

MILLS, Mrs. C. E., 1 Chameleon.

MILWAIN, Mrs. J., 1 Budgerigar.

Montague, Ernest, 7 Slowworms, 1 European Hedgehog.

Montgomery, David, 1 Golden Agouti.

MOORE, H., F.Z.S., 2 Black Mambas.

Moore, J., F.Z.S., 1 Grey Squirrel, 2 European Squirrels.

Morley, Edward, 2 Common Vipers.

Morris, J. J., C.M.Z.S., 2 Golden Agoutis, 1 Ring-tailed Coati, 1 Canarian Hedgehog, 1 Short-eared Owl, 2 Common Boas, 10 Gallot's Lizards, 1 Brazilian Tree Frog, 3 Ridged Escuerzos, 3 White-lipped Tree Frogs, 4 Iguanas, 2 Brazilian Tortoises, 7 South American Sand Toads, 1 Spotted Bladder Frog, 5 South American Giant Toads.

Morris, Dr. K., 11 Taurican Lizards, 1 Orsini's Viper, 20 Pupæ of Pine Hawk Moth, 8 Wolf Spiders.

Napier, Mrs., 1 Thomas's Pygmy Mongoose.

Nash, Miss G. M., 1 European Tree Frog.

NATIONAL INSTITUTE FOR MEDICAL RESEARCH, 2 Golden Hamsters.

NAWANAGAR, H.H. the Jam Sahib of, 1 Lion.

NAYLOR, S. A., 1 Magpie, 1 Yellow Bunting, 1 Blackbird, 1 Redwing, 1 British Song Thrush.

Nicholson, Norman, 2 Musk Lorikeets, 1 Pilot Bird, 1 Coachwhip Bird.

NORMAN, Geoffrey, 1 Hawfinch.

NORMAN, Mrs., 1 Humboldt's Woolly Monkey.

OLIPHANT, Frank, 1 Blue & Yellow Macaw.

OSLER, Miss Helen, 1 Shaw's Jird.

OTTER, Mrs., 2 Dominican Cardinals.

OVALLE, J. R. de Aragon, 1 Brown Capuchin.

OVER, Mrs., 1 Common Kingfisher.

PARKER, Master F. B., 1 Common Waxbill.

PARKER, Windsor D., F.Z.S., 2 Hooded Crows.

PEEK, Mrs. B. M., 1 Common Waxbill.

Pinto, Oreste, F.Z.S., 1 Bateleur Eagle, 1 Syrian Hyrax (Deposited 1931).

Piper, Mrs., 1 Greater Sulphur-crested Cockatoo.

PITT, A., 1 Humboldt's Woolly Monkey.

PLATTS, W., 1 Woodcock.

PLENTY, Miss M. P., 1 Budgerigar.

Plummer, Miss E. M., 1 Red-billed Toucan.

Pollard, Mrs. H. D. C., F.Z.S., 1 Southern Hill Myna, 1 Green Toad, 1 South American Giant Toad.

Ponsonby, C. G. Talbot-, F.Z.S., 1 Ring-necked Pheasant, 2 Pheasants (Light var.).

Porritt, Mrs., 1 Greek Tortoise.

Portal, Maurice, D.S.O., F.Z.S., 1 Blackcap, 3 Heineken's Blackcaps, 2 Madeiran Pigeons.

Porter, W. A., 1 Brazilian Tree Frog.

POTTER, Mrs., 1 European Pond Tortoise.

Powrie, Miss M. R., 1 Roseate Cockatoo.

PRIOR, Mrs. H. S., F.Z.S., 1 Black-footed Penguin.

RAY, P. H., 1 Kinkajou.

Rew, H., 1 Fringe-armed Tree Frog.

REYNOLDS, Miss E., 1 Moholi Bush Baby.

RHODES, F. A., 1 Jack Snipe.

RICHARDSON, C., 1 Hairy Armadillo.

Rose, H. G., F.Z.S., 1 Bearded Lizard, 1 Baya Weaver Bird, 1 Diced Water Snake, 2 Grass Snakes, 1 Pintailed Whydah Bird.

Rowan, Prof. William, F.Z.S., 8 Evening Grosbeaks, 7 Harris Sparrows, 1 Snow Bird, 4 White-crowned Song Sparrows, 3 Field Sparrows, 1 Song Sparrow.

ROYAL GARDENS, KEW, 8 Angel Fish.

Rushbrooke, Commander J., 1 Ring-tailed Coati, 1 Two-toed Sloth.

Russell, D., 1 Egg-eating Snake.

Russell, Dr. E. S., F.Z.S., 3 Golden Hamsters.

Russell, Mrs. Gilbert, 1 Fischer's Lovebird.

Russell, J. A., 2 Reticulated Pythons.

Ryves, V. W., F.Z.S. (in conjunction with M. Foster), 1 Tiger.

St. Ruth, Mrs., 1 Green Lizard.

SARMAR, Hugh, 1 Cockatiel.

Scholefield, Capt. H. L., 1 European Roller, 2 Green Glossy Starlings, 1 Hobby.

Schweitzer, Dr. A., 1 Red River Hog.

Sebille, W., 2 Prairie Marmots.

SEVASTOPULO, Mrs. M. G., F.Z.S., 1 Pekin Robin.

Shakspeare, Mrs., 1 Dominican Cardinal, 2 Red-crested Cardinals.

Sharpe, A., 1 Nose-horned Viper.

Shaw, The Ven. Archdeacon Archibald, C.M.Z.S., 2 Heckel's African Lung-Fish.

Sheffield, Sir Berkeley, Bt., M.P., F.Z.S., 2 Coral King Snakes.

SIEVWRIGHT, Mrs., 1 Cuckoo.

SIMPSON, J. T., M.D., 1 Common Waxbill.

SIMPSON, W. W., 1 Jungle Striped Squirrel.

SMART, Miss, 1 Blue-fronted Parrot.

SMITH, A. St. Alban, F.Z.S., 39 Hamadryads, 44 Black & Gold Tree Snakes, 11 Orange Striped Snakes, 7 Emerald Tree Snakes, 1 Sealing Wax Snake, 9 Common Malayan Tree Frogs, 2 Wagler's Pit Vipers, 3 Gold-lined Frogs, 5 Broad-headed Water Snakes, 8 Gray's Temple Vipers, 2 Red-marked Burrowing Snakes, 1 Iridescent Snake, 6 Common Malayan Frogs, 1 Edeling's Grass Snake, 4 Reticulated Pythons, 2 Fordonia Water Snakes, 6 Painted Tree Snakes, 2 Malayan Grass Snakes, 2 Black Cobras, 6 Cerberus Water Snakes, 2 Boie's Cat Snakes, 1 Tail-lined Tree Snake, 1 Ganjam Snake, 1 Eight-lined Snake, 2 Indian Wolf Snakes, 2 Reddish Rat Snakes.

Sмітн, Sir Drummond Cunliffe, Bt., 1 Great Crested Grebe.

SMITH, Miss Leigh, 3 Pekin Robins, 3 Zebra Finches, 2 Goldfinches, 1 Grey Singing Finch, 2 Hybrid Green & Grey Singing Finches, 1 Green Singing Finch, 1 Red-crested Cardinal, 1 Orange Weaver Bird, 1 Indian Silverbill, 2 Brazilian Tortoises, 1 Dumeril's Greaved Tortoise.

SMITH, Major L. Coleman (in conjunction with Major F. W. Borman), 3 Polecats.

SMITH, Mrs. L., 1 Tovi Parrakeet.

SNELL, H., 1 Top-tailed Gecko.

SPEER, J. Litchfield-, 1 Red & Blue Macaw.

SPENCER, G., 1 European Pond Tortoise.

Spencer, S. A., 2 Budgerigars, 1 European Viper.

Spiller, R., 6 Yellow-spotted Lizards.

Stennings, Miss J. M., 1 Greek Tortoise.

Stevens, Noel, F.Z.S., 1 Barrow's Golden Eye.

STEVENS, R., 2 Red-billed Pintails.

Stevens, Mrs. S., 1 Paradise Whydah Bird, 1 Pin-tailed Whydah Bird, 2 Orange-cheeked Waxbills, 1 Avadavat, 1 Cut-throat Finch, 1 Nutmeg Finch, 1 Black-headed Mannakin, 1 Bronze-winged Mannakin, 1 African Silverbill, 1 Indian Silverbill, 1 Canary.

Stoneham, J. A., 2 Yellow-winged Sugar Birds.

STOWER, The Rev. Bertram, F.Z.S., 1 Red Cichlid.

STUART, D. M., 1 Stump-tailed Lizard.

SUDAN, H.E. The Governor-General of, 1 African Elephant.

SWAYON, Mrs., 1 Greek Tortoise.

TAYLOR, F. W., F.Z.S., 1 Chameleon.

THOMAS, Mrs. Margaret, 1 European Hare.

THOMPSON, Mrs. J. R., 2 Jays, 1 Magpie.

THORNTON, Mrs., 1 Mona Monkey.

TILBY, J., 2 Green Singing Finches.

TURNER, Mrs. H. B., 1 Pleurodele Newt.

Twist, M. F., 1 Little Owl.

Twist, R. F., 3 Stoats.

Upstone, G. C., C.M.Z.S., 1 Patas Monkey, 1 Bay Duiker, 2 White-spotted Squirrels, 2 Great Cane Rats, 1 Yellow-headed Parrot, 1 Jardine's Parrot, 3 Lord Derby's Terrapins, 1 Schweigger's Hinged Tortoise.

URQUHART, Mrs. H. A., 1 Syrian Bear.

Verey, Mrs. A. F., F.Z.S., 2 Blackbirds.

Vickers, Angus, 1 European Wild Cat.

Wade, Mrs., 1 Marmoset.

Waldron, Miss Fanny, F.Z.S., 3 Great Cane Rats.

Waldron, J. F., 1 Chameleon.

WALKER, G. R., 1 Blue Sugar Bird.

Wall, Mrs. J. N., 2 Marmosets.

Walmsley, J. W., 1 Salle's Parrot.

WALTER, Miss F. G. V., F.Z.S., 1 Kusimanse.

WATNEY, Mrs. V. M., 1 Green Lizard.

WATTS, H. C., 1 Ratel.

Webb, C. S., 4 Tambourine Doves.

Webb, Miss O. M., 1 Greater Sulphur-crested Cockatoo.

WESTMINSTER, H.G. The Duke of, G.C.V.O., D.S.O., F.Z.S., 1 Concolor Gibbon.

Wнетнам, Capt. E. K. Boddam-, D.S.O., R.N., 1 Guilding's Parrot.

WILLIAMS, Mrs. Gregson, 1 Humboldt's Woolly Monkey.

Williams, J. C., 2 Tschudi's Coral Snakes, 4 Yellow-spotted Lizards, 1 Elegant Small Spotted Tree Snake.

WILLIAMS, V. O., F.Z.S., 1 Canary.

Windsor, E., 1 Madagascar Weaver Bird, 1 St. Helena Waxbill.

WINSTEDT, Mrs. R. O., 1 Hamadryad.

Wood, Mrs. M. H., F.Z.S., 1 Yellow Bunting, 2 Chaffinches, 1 Pin-tailed Whydah Bird.

Woodward, S. F., C.M.Z.S., 1 White-bellied Pangolin, 1 Great Cane Rat, 1 Royal Python, 1 African Python, 1 Black & White Cobra, 1 Puff Adder, 1 West African Wolf Snake, 1 Reinhardt's Earth Snake, 18 Pug-faced Frogs, 1 Schweigger's Hinged Tortoise.

Woodward, Mrs. S. F., 1 Rail.

WOOSTER, S. J., 1 Great Crested Grebe.

YULE, Lady, F.Z.S., 1 American Mink.

II.—TO WHIPSNADE PARK.

Bedford, H.G. The Duke of, K.G., F.R.S., President, 5 American and 4 European Bison.

BROADBENT, Miss S., 7 Fantail Pigeons.

Brooks, Miss, 1 Mute Swan.

Dawkes, R. H., 1 Greater Sulphur-crested Cockatoo.

Dodd, Mrs. N., 1 Blue-fronted Parrot.

DOWNE, The Viscount, F.Z.S., 2 Brown Bears.

FISHER, Dr. R. A., 12 Red Jungle-Fowl.

FRY, Mrs. Roderic, 2 Common Peafowl.

Mair, Miss H., 2 European Squirrels.

Pike, Oliver G., F.Z.S., 2 European Squirrels.

Prior, C. M., 1 Greater Sulphur-crested Cockatoo.

SIMPKINS, Master P., 1 European Squirrel.

SWAN KEEPER, H. M., 1 Canada Goose.

III.—TO THE AQUARIUM.

BALL, R., Butterfly Fish.

Bedford, H.G. The Duke of, K.G., F.R.S., F.Z.S., Golden Trout, Salmon.

Budd, J. C. W., Eels, Gobies.

Downs, Commander Morton B., Bowfin.

FRIEND, V. C., Hawksbill Turtle.

Kew, The Royal Gardens, Angel Fish.

LEAVEY, G. K., Squat Lobsters.

Shaw, Venerable Archdeacon Archibald, C.M.Z.S., African Lung-fish.

SIMPSON, J. T., M.D., Goldfish.

STOWER, The Rev. B. H. R., F.Z.S., Red Cichlid.

TIBBITT, G. T., F.Z.S., Roach.

Trist, Miss Beryl, F.Z.S., Goldfish.

75. STATE OF THE FINANCES.—The Report of the Auditors of the Accounts for 1934 is issued to Fellows, bound with this Report.

- 76. Assets 1933 and 1934.—At the end of the year the total Assets of the Society amounted to £217,176 15s. 7d., an increase of £13,556 16s. 1d. on the corresponding figure for 1933. The Assets do not include the de Arroyave Fund.
- 77. Pensions Fund.—The Pensions Fund, instituted in 1926, increased in 1934 by £373 19s. 11d., being the amount of the composition fees of 9 compounders who had died in the course of the year, and £13 19s. 11d., the profits from the sale of matches. It now amounts to £5,448 0s. 3d.
- 78. LIABILITIES 1933 AND 1934. The liabilities amounted to £43,693 7s. 9d., a decrease of £3,631 4s. 3d. on the corresponding figures for 1933.
- 79. Balance 1933 and 1934.—The balance, a surplus of assets over liabilities, amounted to £173,483 7s. 10d., an increase of £17,188 0s. 4d. on the corresponding figure for 1933, representing the sum of the increase in assets (paragraph 76) and decrease in liabilities (paragraph 78).
- 80. Income 1933 and 1934.—There was a total increase of income, amounting to £8,356 10s. 4d., representing the sum of the increase in income in London, amounting to £1,809 11s. 1d., and the increase in income from Whipsnade, amounting to £6,546 19s. 3d.
- 81. EXPENDITURE 1933 AND 1934.—There was a total increase of £6,630 9s. 9d., being an increase of £2,455 18s. 1d. at Whipsnade and £2,424 11s. 8d. in London, plus a repayment to the Life Composition Fund of £1,750.
- 82. DE ARROYAVE FUND.—The Capital of this is shewn separately, as it is a Trust Fund and not part of the assets of the Society (see pp. 102, 103).

- 83. Legacies to the Society.—A bequest of £100 was received from the executors of the late Mr. J. A. Youlton in 1934 and another of £25 from the executors of the late Lt.-Col. R. E. Crichley-Salmonson. In neither case was any wish stated as to the wishes of the testators or relatives, and the allocation of the bequests, not yet settled, will be stated in the Report for 1935.
- 84. The Council wishes to acknowledge the assistance received during the past year from the members of the Committee of Publication, upon whom devolved, in accordance with the By-laws, the arrangement and supervision of the Society's Scientific Publications.
- 85. 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, 1935.

REPORT OF THE COMMITTEE OF AUDITORS OF THE ACCOUNTS

OF THE

ZOOLOGICAL SOCIETY

OF LONDON,

APPOINTED 16th JANUARY, 1935.

To

28th February, 1935.

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, 1934, 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 £217,176 15s. 7d., and the Liabilities to £43,693 7s. 9d. The General State of the Funds of the Society therefore showed a surplus of Assets over Liabilities amounting to £173,483 7s. 10d., subject to the estimated values of some of the Assets. The Cash in the Bankers' hands and at the Office amounted to £27,786 8s. 6d.

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 accounts include the result of the working of the Catering Departments in London and Whipsnade for the year. We have examined the Statements of Account and in our opinion the Balance Sheet is properly drawn up so as to exhibit a true and correct view of the state of the Funds of the Society (subject to the estimated values of some of the Assets) according to the best of our information and the explanations given to us and as shewn by the Books of the Society.

(Signed) Fred A. Jordan (Chairman).
A. L. Allen.
H. A. Judge.
Ernest Poulter.
W. H. Sawyer.
H. S. Watkins.
Harry Wilmot.

Cor

31st

65

45

28

£148

5

Corresponding Figures, 31st Dec., 1933.	LIABILITIE	ES.							
£ s. d. 69,351 17 9	Brought for				£ 21,519	8.	$\frac{d}{1}$	£ 43,693	s. d. 7 9
DE	To Balance being Excess of Assets over continued—	Liabilit	ies-						
	Aquarium Reserve Fund— Balance at 1st January, 1934 Add Transfer from Income and	7,439	17	5					
	Expenditure Account Receipts from Sale of Ivory	1,000	0	0					
7,439 17 5	Tickets during year	10	0	0	8,449	17	5		
nanet in a	Regent's Park Catering Department Plant and Renewals Fund—	2							9
	Balance at 1st January, 1934 Add Further transfer from	2,555							
	Profit for the year	300		0					
	Deduct Transfer to Income and Expenditure Ac-	2,855	,	4					
2,555 7 4	count	1,000	0	0	1,855	7	4		
	Elephant House Re-building Fund— Transfer from Income and								
	Expenditure Account				1,500	0	0		
	Legacy from the late J. A. Youlton, Esq., unappropriated				100	0	0		
	General Purposes Account— Balance at 1st January, 1934 19	24,272	17	0					
. 00	Add Increase in value of Animals								
	Transfer from Income and Expenditure Account being part repayment of								3.5
	amount borrowed from Composition Fund re Whipsnade Park Excess of Income over	1,750	0	0					
24,272 17 0	Expenditure during year	12,236	1		40,059	3	0		

19,90

£203,6]

£217,176 15

£203,619 19 6

EE7	31st D	EC	EN	MBER, 1934—continued.						20
	Correspo	- Company	ost on the	TOTAL COMMINGE.						93
	Figur 31st Dec.	res,		ASSETS.						
s. d.	~		d.	STRONY STREET	£	8	. d.	£	8	. d.
•	148,242	0	4	Brought forward By Rates, Insurances, etc., paid in advance—				151,957	6	. d. 9
				783 8 S General Account	862	2 0	8			
	1,067	2	5	283 13 9 Catering Departments	281	. 5	5 9	M M 05		
				" "Zoological Record" Compilation Fees, etc.,	al Francisco			1,143	6	5
	168	3 16	6	paid in respect of Vol. 71, not vet published				176	8	9
				,, Investment of Pensions Fund (at cost)—			0			
				£5,831 15s. 8d. Conversion 3½ per cent. Stock £1,270 4s. 8d. Consolidated 2½ per cent. Stock	4,408 1,025					
	4,051	13	2		1,020	10		5,434	0	4
				,, Investment of Composition Fund (at cost)— Whipsnade Park (Part Purchase Price)	10.004					
				£254 14s. 9d. London County 31 per cent. Stock	254	4 0	10			
				£5,749 Os. 6d. Conversion 31 per cent. Stock	4.631	14	10			
	18,225	0	0	£1,550 8s. 1d. Consolidated $2\frac{1}{2}$ per cent. Stock	1,335				0	0
				,, Investment of Animals Purchase and Insurance				18,315	0	0
				Fund (at cost)—						
				£5,262 8s. 10d. Consolidated 2½ per cent. Stock		0	0			
	3,290	0	0	£509 15s. 9d. Funding 3 per cent. Stock		0 0				
						_	_	3,069	0	1
				,, Investment of Aquarium Reserve Fund (at cost)—	2 400	- 11				
	6,409	17	5	£8,056 2s. 6d. Conversion $3\frac{1}{2}$ per cent. Stock £1,275 7s. 1d. Consolidated $2\frac{1}{2}$ per cent. Stock	6,409 1,030					
Yes					1,00	-	_	7,439	17	5
				,, Investment of Regent's Park Catering Depart-						
				ment Plant and Renewals Fund (at cost)— £1,604 10s. 2d. Conversion 3½ per cent. Stock	955	7	4			
				£777 2s. 4d. Consolidated 2½ per cent. Stock	600	0	0			
	2,255	7	4	£288 16s. 10d. Funding 3 per cent. Stock	300			0 0 19		
	-,		4	" Cash at Bank—				1,855	7	4
				General Accounts—Deposit Account	17,000	0	0			
				Catering Departments—Current Account	3,633	17	2			
				Do. —Deposit Account Composition Fund	The All 1997					
				Elephant House Re-building Fund	12 170200					
				Aquarium Reserve Fund	1,010	0	0			
7 10				Pension Fund	13	19	11	*		
					30,292	17	1			
				Less General Accounts—Current Account						
				Overdrawn	3,932	17	10			
					26,359	19	3			
				,, Cash Floats—						
				General Account 680 0 0 Catering Departments 234 8 9						
	1				914	.8	9			
				,, Cash in Office—						
				General Account 438 7 7 Catering Departments 73 12 11						
				Catering Departments 73 12 11	512	0	6			
-	19,909 1	16	4		-			27,786	8	6
15	£203,619 1	19	6				-	2017 176	1 5	7
			-				_	£217,176 1	.5	-
		y	Nor	re.—At Minimum Stock Exchange quotations at 31st December valued at £33,988 2 9 showing an appreciation of £9,969 1	r, 1934, the	e Se	curit	ries held		
				articular 200,000 2 o showing an appreciation of 20,000 1	II on one	llla	COS	t.		

INCOME AND EXPENDIT

FOR THE YEAR ENDED 31ST

Co

318

2, 22, 6,

3, 10,

2,0

8,

8,6

1,6

10,7

4,2

			-
Corresponding Figures, 31st Dec., 1933.	INCOME.		
£ s. d.	REGENT'S PARK.	£ s. d.	6
		£ s. d.	£ 8. d.
1,735 0 0	Admission Fees (Fellows)		1,855 0 0
21,209 16 6	Subscriptions (Fellows and Professional Zoologists)		21,075 12 0
343 8 9	Interest on Investments		423 11 10
47,531 17 0	Admissions to Gardens		51,035 15 6
	Admissions to Aquarium	9,063 15 0	- or our
	Interest on Aquarium Reserve Fund Investment	289 18 9	,
9,100 12 4			9,353 13 9
2,640 13 5	Riding Receipts		2,422 19 8
546 16 4	Automatic Feeding Machines—Receipts		435 16 10
72 2 4	Bath Chairs, Hire of		67 6 4
263 10 4	Animals, etc., Sale of		256 5 0
2,654 4 2	Official Guides, Sale of		2,869 0 10
991 13 8	Picture Post Cards, Sale of		980 8 10
366 1 8	Photographic Films, Cameras, etc., Sale of		387 9 10
20 0 0	Transferable Ivory Tickets, Sale of		20 0 0
25 15 0	Photographers and Artists Permits, Sale of		29 0 0
_	Cinamatagraph Film Damita Cala of		138 0 0
2 4 6	Gramophona Pagard Povalties		17 4
2 1 0	"Zoological Record," Sale of—		1, 4
	Vols. 1-58	44 8 10	O TROUT
		44 8 10	
	,, 59–69 176 17 3		100
	,, 70 219 3 2		
	200 0 5		21 000
	396 0 5		
	"Zoological Record," Subscriptions to—		
	Vols. 59–69 34 10 0		
	,, 70 536 0 0 570 10 0		
1 000 10 11		966 10 5	
1,369 12 11			1,010 19 3
382 0 0	Publications, Subscriptions to		394 16 0
339 16 2	Publications, Sale of		307 15 4
5 1 2	Donations		13 9 0
2 5 10	Miscellaneous Receipts		2 16 1
	The Table of the Control of the Cont		
89,602 12 1			93,080 13 5
	Catering Department, Regent's Park—		
	7,349 16 4 Profit for the year	6,042 17 3	
	4,000 0 0 Rent of Department	4,000 0 0	
	900 0 0 Tantain	845 5 11	
	809 9 8 ,, Lavatories	010. 0 11	172.40
	12,159 6 0	10,888 3 2	
		10,000 5 2	
	Less Cost of Repairs, Alterations, etc., carried out by Works Dept., etc.—		
	1,303 13 6 Department 1,557 12 3		
	210 11 8 Lavatories 354 0 4	1 011 10 5	100
10,645 0 10	1.514 5 0	1,911 12 7	0.070.10.7
10,040 0 10	1,514 5 2	1100	8,976 10 7

Carried forward

£1,959 17

3 £84,153 14 3

£81,243

£1,907 17 4

Corresponding Figures, 31st Dec., 1933

INCOME.

£ s. d. 100,247 12 11

REGENT'S PARK.
Brought forward ...

£ s. d. £ s. d. 102,057 4 0

2,

Corre F 31st

81,

1,

1,

1,

1,

3,

Total Expenditure Regent's Park (see page 101)

£99,645 13 4

197,221 1 8

								-
Corresponding Figures,	INCO	ME.						N.
31st Dec., 1933.	11.00							
£ s. d.	WHIPSNADE	PARK.		£ s.	d.	£	8.	d
	on to Park—							
	14 10 Visitors			22,247 5	2			
	15 0 Cars			234 14				1
18,946 9 10						22,481	19	5
	k Receipts—							
	10 4 Admissions			3,856 4	10			1
	14 11 Petrol, Oil,			1,211 5				Ш
4,538 5 3						5,067	10	4
	s Receipts					897	12	6
	Receipts					784	1	6
	nairs, Hire of					65	5	9
	lasses, Hire of					5	16	0
	s, etc., Sale of					287	5	0
1,259 11 6 Official	Guides, Sale of					1,453	10	177
191 15 6 Picture	Post Cards, Sale of					238	12	2
1 5 0 Photogr	aphers' and Artists'	Permits, Sale	of			1	17	6
36 0 0 Cinemat	tograph Film Permit	s, Sale of				12	0	0
Cottages	8—							
53				52 0	0			1
	Subsidy un	der Housing	(Financial					
44	0 0 Provisi	ons) Act, 192	4	44 0	0			
97 0 0				-	-	96	0	0
15 0 Miscella	neous Receipts						15	9
						01 000		-
26,843 6 10						31,392	5	LU
	g Department, Whipe			- 004 10	-			1
2,671	13 11 Profit for th		4.14	5,034 10	1			
		of Repairs,						
2=1		carried out	by Works	000 10				-
271	17 2 Dept.			636 13	7	4 207	17	1
2,399 16 9 —				1		4,397	17	V

20,

Carried forward

s. d

5 1

Corresponding							
Figures, 31st Dec., 1933.	EXPENDITURE.						
Olbo Decit, 12001							1
£ s. d.	WHIPSNADE PARK.	£	8.	d.	£	8.	d.
867 4 7	Rent, Rates and Insurances				826	7	8
40 18 9	Income Tax (Schedule A, Cottages, etc.)				27	19	8
6,372 5 4	Salaries, Staff and Keepers				6,941	15	8
2,001 2 8	Provisions, including Cultivation of Land, etc						1
312 7 6	Animals, Cost and Carriage of				71	0	3
1	Menagerie Maintenance:-Fuel, Water, Uniforms,						
	Cleaning Materials, Electricity, Gas and Other						
1,509 6 4	Expenses				1,630	18	10
	Works Department :- Upkeep of Buildings, Paths,				-,		
THE OWNER.	etc.—						1
100,000	3,468 13 0 Wages	3,314	11	0			
	2,428 4 0 Materials and Sundries	3,265		8			1
5,896 17 0				_	6,580	6	8
0,000	Gardeners' Expenses—				0,000		
	866 11 0 Wages	823	15	3			1
	71 19 6 Seeds, Plants, Implements, etc		12				
938 10 6					910	8	2
000 10 0	Office, Bothy and Cottages—	11011-217-2			010	0	~
326 15 7	Fuel Light Wages etc				416	16	4
415 11 0	A 3					3	6
32 14 11	Stationery and Miscellaneous Printing					19	4
02 14 11	Car Park—				00	10	7
	1049 19 T D 4 1 02 4 C 4 C	1,068	18	2			
	98 9 5 Hire Purchase Instalments on Pumps		9				
1,142 2 0	35 5 5 Hite Luichase Histainients on Lumps	21	9	0	1,096	8	0
1,142 2 0	Official Guides, Cost of	100000000000000000000000000000000000000	Aminores		1,000	0	U
11	700 0 0 D: 4:	800	15	2			
	116 2 0 Printing, etc	100000	4				
414 7 0	2 0 Less Income from Advertisements	120	4	10	677	10	5
46 15 6	Picture Post Cards, Cost of Printing, etc				60	9	
40 10 0	Tam Funance and Companyation					12	
	Denetions				OT	14	
	Donations					0	0
						0	0
20 316 18 8					10		-
20,316 18 8	Total Maintenance						6
20,316 18 8	Total Maintenance Whipsnade Park Development—				10		-
20,316 18 8	Total Maintenance Whipsnade Park Development— Improvement and Extension of County Roads—				10		-
20,316 18 8	Total Maintenance Whipsnade Park Development— Improvement and Extension of County Roads— Moiety of Loan Charges repaid to the	061	10		10		-
20,316 18 8	Total Maintenance Whipsnade Park Development— Improvement and Extension of County Roads— Moiety of Loan Charges repaid to the Bedfordshire County Council	961	10	0	10		-
20,316 18 8	Total Maintenance Whipsnade Park Development— Improvement and Extension of County Roads— Moiety of Loan Charges repaid to the Bedfordshire County Council Catering Department—	961	10	0	10		-
20,316 18 8	Total Maintenance Whipsnade Park Development— Improvement and Extension of County Roads— Moiety of Loan Charges repaid to the Bedfordshire County Council Catering Department— Monopoly Value—Purchase of Capital Value				10		-
20,316 18 8	Total Maintenance Whipsnade Park Development— Improvement and Extension of County Roads— Moiety of Loan Charges repaid to the Bedfordshire County Council Catering Department—	875	0	0	10		-
20,316 18 8	Total Maintenance	$\frac{875}{1,836}$	0	0	10		-
20,316 18 8	Total Maintenance Whipsnade Park Development— Improvement and Extension of County Roads— Moiety of Loan Charges repaid to the Bedfordshire County Council Catering Department— Monopoly Value—Purchase of Capital Value (£3,500)—2nd Instalment Deduct Transfer from De Arroyave Trust Fund	875	0	0	10		-
20,316 18 8	Total Maintenance Whipsnade Park Development— Improvement and Extension of County Roads— Moiety of Loan Charges repaid to the Bedfordshire County Council Catering Department— Monopoly Value—Purchase of Capital Value (£3,500)—2nd Instalment Deduct Transfer from De Arroyave Trust Fund Catering Department—	$\frac{875}{1,836}$	0	0	10		-
20,316 18 8	Total Maintenance Whipsnade Park Development— Improvement and Extension of County Roads— Moiety of Loan Charges repaid to the Bedfordshire County Council Catering Department— Monopoly Value—Purchase of Capital Value (£3,500)—2nd Instalment Deduct Transfer from De Arroyave Trust Fund Catering Department— Additions and Alterations to Hall Farm	875 1,836 1,836	0 10 10	0	10		-
20,316 18 8	Total Maintenance Whipsnade Park Development— Improvement and Extension of County Roads— Moiety of Loan Charges repaid to the Bedfordshire County Council Catering Department— Monopoly Value—Purchase of Capital Value (£3,500)—2nd Instalment Deduct Transfer from De Arroyave Trust Fund Catering Department— Additions and Alterations to Hall Farm Premises and Kiosks, etc	875 1,836 1,836	0 10 10 -	0	10		-
20,316 18 8	Total Maintenance Whipsnade Park Development— Improvement and Extension of County Roads— Moiety of Loan Charges repaid to the Bedfordshire County Council Catering Department— Monopoly Value—Purchase of Capital Value (£3,500)—2nd Instalment Deduct Transfer from De Arroyave Trust Fund Catering Department— Additions and Alterations to Hall Farm Premises and Kiosks, etc Construction of Tiger Enclosure	875 1,836 1,836 - 879 1,284	0 10 10 -	0 0 0 7 1	10		-
20,316 18 8	Total Maintenance Whipsnade Park Development— Improvement and Extension of County Roads— Moiety of Loan Charges repaid to the Bedfordshire County Council Catering Department— Monopoly Value—Purchase of Capital Value (£3,500)—2nd Instalment Deduct Transfer from De Arroyave Trust Fund Catering Department— Additions and Alterations to Hall Farm Premises and Kiosks, etc Construction of Tiger Enclosure , Giraffe House	875 1,836 1,836 879 1,284 1,159	0 10 10 - 1 1 5	0 0 0 7 1 4	10		-
20,316 18 8	Total Maintenance Whipsnade Park Development— Improvement and Extension of County Roads— Moiety of Loan Charges repaid to the Bedfordshire County Council Catering Department— Monopoly Value—Purchase of Capital Value (£3,500)—2nd Instalment Deduct Transfer from De Arroyave Trust Fund Catering Department— Additions and Alterations to Hall Farm Premises and Kiosks, etc Construction of Tiger Enclosure	875 1,836 1,836 - 879 1,284	0 10 10 - 1 1 5	0 0 0 7 1 4	10		-
20,316 18 8	Total Maintenance Whipsnade Park Development— Improvement and Extension of County Roads— Moiety of Loan Charges repaid to the Bedfordshire County Council Catering Department— Monopoly Value—Purchase of Capital Value (£3,500)—2nd Instalment Deduct Transfer from De Arroyave Trust Fund Catering Department— Additions and Alterations to Hall Farm Premises and Kiosks, etc Construction of Tiger Enclosure "", Giraffe House White Deer Enclosure	875 1,836 1,836 879 1,284 1,159	0 10 10 - 1 1 5 8	0 0 0 7 1 4	10		-
20,316 18 8	Total Maintenance Whipsnade Park Development— Improvement and Extension of County Roads— Moiety of Loan Charges repaid to the Bedfordshire County Council Catering Department— Monopoly Value—Purchase of Capital Value (£3,500)—2nd Instalment Deduct Transfer from De Arroyave Trust Fund Catering Department— Additions and Alterations to Hall Farm Premises and Kiosks, etc Construction of Tiger Enclosure "", Giraffe House White Deer Enclosure	875 1,836 1,836 879 1,284 1,159 198	0 10 10 - 1 1 5 8	0 0 0 7 1 4	10		-
20,316 18 8	Total Maintenance Whipsnade Park Development— Improvement and Extension of County Roads— Moiety of Loan Charges repaid to the Bedfordshire County Council Catering Department— Monopoly Value—Purchase of Capital Value (£3,500)—2nd Instalment Deduct Transfer from De Arroyave Trust Fund Catering Department— Additions and Alterations to Hall Farm Premises and Kiosks, etc Construction of Tiger Enclosure , , , Giraffe House , , , White Deer Enclosure	875 1,836 1,836 879 1,284 1,159 198	0 10 10 - 1 1 5 8	0 0 0 7 1 4	10		-
20,316 18 8	Total Maintenance Whipsnade Park Development— Improvement and Extension of County Roads— Moiety of Loan Charges repaid to the Bedfordshire County Council Catering Department— Monopoly Value—Purchase of Capital Value (£3,500)—2nd Instalment Deduct Transfer from De Arroyave Trust Fund Catering Department— Additions and Alterations to Hall Farm Premises and Kiosks, etc Construction of Tiger Enclosure , , Giraffe House , , White Deer Enclosure Deduct Transfer from De Arroyave	875 1,836 1,836 879 1,284 1,159 198	0 10 10 - 1 1 5 8	0 0 0 7 1 4	10		-
20,316 18 8	Total Maintenance Whipsnade Park Development— Improvement and Extension of County Roads— Moiety of Loan Charges repaid to the Bedfordshire County Council Catering Department— Monopoly Value—Purchase of Capital Value (£3,500)—2nd Instalment Deduct Transfer from De Arroyave Trust Fund Catering Department— Additions and Alterations to Hall Farm Premises and Kiosks, etc Construction of Tiger Enclosure , , Giraffe House , , White Deer Enclosure Deduct Transfer from De Arroyave Trust Fund 542 9 11	875 1,836 1,836 879 1,284 1,159 198	0 10 10 - 1 1 5 8	0 0 0 7 1 4	10		-
20,316 18 8	Total Maintenance Whipsnade Park Development— Improvement and Extension of County Roads— Moiety of Loan Charges repaid to the Bedfordshire County Council Catering Department— Monopoly Value—Purchase of Capital Value (£3,500)—2nd Instalment Deduct Transfer from De Arroyave Trust Fund Catering Department— Additions and Alterations to Hall Farm Premises and Kiosks, etc Construction of Tiger Enclosure , , , Giraffe House , , , White Deer Enclosure Deduct Transfer from De Arroyave Trust Fund 542 9 11 Transfer from Regent's Park	875 1,836 1,836 879 1,284 1,159 198	0 10 10 - 1 1 5 8	0 0 0 7 1 4	10		-
20,316 18 8	Total Maintenance Whipsnade Park Development— Improvement and Extension of County Roads— Moiety of Loan Charges repaid to the Bedfordshire County Council Catering Department— Monopoly Value—Purchase of Capital Value (£3,500)—2nd Instalment Deduct Transfer from De Arroyave Trust Fund Catering Department— Additions and Alterations to Hall Farm Premises and Kiosks, etc Construction of Tiger Enclosure , , , Giraffe House , , , White Deer Enclosure Deduct Transfer from De Arroyave Trust Fund 542 9 11 Transfer from Regent's Park Catering Dept. Plant and	875 1,836 1,836 879 1,284 1,159 198	0 10 10 1 1 5 8 16	0 0 0 7 1 4 11	10		-
20,316 18 8	Total Maintenance Whipsnade Park Development— Improvement and Extension of County Roads— Moiety of Loan Charges repaid to the Bedfordshire County Council Catering Department— Monopoly Value—Purchase of Capital Value (£3,500)—2nd Instalment Deduct Transfer from De Arroyave Trust Fund Catering Department— Additions and Alterations to Hall Farm Premises and Kiosks, etc Construction of Tiger Enclosure , , , Giraffe House , , , White Deer Enclosure Deduct Transfer from De Arroyave Trust Fund 542 9 11 Transfer from Regent's Park Catering Dept. Plant and	875 1,836 1,836 879 1,284 1,159 198 3,520	0 10 10 1 1 5 8 16	0 0 0 7 1 4 11	10		-
1,442 15 9	Total Maintenance	875 1,836 1,836 879 1,284 1,159 198 3,520	0 10 10 1 1 5 8 16	0 0 0 7 1 4 11 11	10 22,237	5	-
	Total Maintenance Whipsnade Park Development— Improvement and Extension of County Roads— Moiety of Loan Charges repaid to the Bedfordshire County Council Catering Department— Monopoly Value—Purchase of Capital Value (£3,500)—2nd Instalment Deduct Transfer from De Arroyave Trust Fund Catering Department— Additions and Alterations to Hall Farm Premises and Kiosks, etc Construction of Tiger Enclosure , , , Giraffe House , , , White Deer Enclosure Deduct Transfer from De Arroyave Trust Fund 542 9 11 Transfer from Regent's Park Catering Dept. Plant and	875 1,836 1,836 879 1,284 1,159 198 3,520	0 10 10 1 1 5 8 16	0 0 0 7 1 4 11 11	22,237	5	-

Corresponding Figures, 31st Dec., 1933.

INCOME.

DE ARROYAVETR

Corr

31st

1,

£3,

Trustees-The Official Trusteef Ch

£103,305 7 9 Funding per

s. d. \pounds s. d. \pounds s. Interest on Investment (per Official Trustees of

3,160 17 4 Charitable Funds) 3,160 1,7 4

3 11 1 Income Tax Recovered (less expenses) — 3,160 17

£3,184 8 5

£3,160 17

CHILLINGHAMCA'

Trustees-Sir Peter Chalmers Mitchell, C.B.E., D.Sc., F.R.St. S.

 47 17 0 Balance brought forward from 1932 ...
 ...
 ...
 ...
 ...
 73 2 0

 93 2 6 Subscriptions and Donations ...
 ...
 ...
 ...
 ...
 73 2 0

Contribution by the Society transferred from the

359 0 6 De Arroyave Trust Fund... 332 7 11

£500 0 0

405

£405

DAVITRI £1,520 Southern Railwoo. 5

76 0 0 Interest on Investment 76 0

£76 0 0

£76 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 in explanations we have required.

23, Queen Victoria Street, London, E.C.4, 28th February, 1935.

s. d.

Corresponding Figures, 31st Dec., 1933.

EXPENDITURE.

AVERUST FUND.

rusteen Charitable Funds.

unding	per	cent.	Stock.
--------	-----	-------	--------

8.	£	8.	d.		£	8.	d.	
	3	3	0	Upkeep of the De Arroyave Grave at Highgate	 3	3	0	
	3	0	0	Expenses re Inspection of Tomb at Westbury	 3	0	0	
-		_		Fee re Repairs to Mausoleum at Westbury	 2	6	в	
17	20	5	0	Cost of Cleaning and Glazing Portrait				

16 4 9 Cost of Cleaning and Glazing Portrait leum at Westbury

Balance of Income appropriated to—

1,198 12 0 Whipsnade Park Development Account ... 542 9 11

Improvement and Extension of Bedfordshire
County Roads—Moiety of Loan Charges ... 961 10 0
Whipsnade Park Catering Department—

Monopoly Value—Purchase of Capital Value

(£3,500)—2nd Instalment 875 0 0

359 0 6 Chillingham Cattle Fund—Contribution ... 332 7 11

424 0 0 "Zoological Record"—Cost of Vol. 69 424 0 0

77 0 0 Scientific Grants 17 0 0

21 13 2 International Fauna Conference Expenses ... _____

£3,160 17 4

7 10

3,152

HAMCATTLE FUND.

£3,184 8 5

F.R.St. S. Gladstone, Esq., and Captain Cecil G. Graves, M.C.

250	0	0	Rent of Park	 	250	0	0
250	0	0	Contribution towards cost of Maintenance	 	155	9	11

405 9 11

9 1 500 0 0

17

9 1

0

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nditu

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£405 9 11

VITRUST FUND.

Railuro. 5% Preference Stock.

76 0 0 Applied towards Fees of Editor of "Zoological Record"

76 0 0

£76 0 0

£76 0

ociety for the year ended 31st December, 1934, and have found them to be in order counts have been drawn up in strict conformity therewith and that they fully and Investments and the Cash Balances and have received all the information and

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