









# REPORTS

OF THE

COUNCIL AND AUDITORS

OF THE

# ZOOLOGICAL SOCIETY

OF LONDON,

FOR THE YEAR 1915.

PREPARED FOR THE ANNUAL GENERAL MEETING,

TO BE HELD ON

FRIDAY, APRIL 28<sup>TH</sup>, 1916.

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# ZOOLOGICAL SOCIETY.

## REPORT OF THE COUNCIL

*for the year ending 31st December, 1915.*

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### ANNUAL GENERAL MEETING.

1. The Eighty-seventh Annual General Meeting of the Society will be held on Friday, April 28th, 1916, at 4 p.m. at the Offices of the Society, in the Gardens, Regent's Park, N.W.

### REPORT.

2. All the materials for this Report have been collected as usual and are filed in the Office, but the Council has decided to print and distribute only the more important details.

### STAFF ON ACTIVE SERVICE.

3. The Society's normal permanent Staff numbers about 150 males, including those unfitted for active service on account of age or physical defect. Since the beginning of the War 54 were called up or volunteered for active service. Of these four were refused on medical grounds; five have been discharged on account of health; one has recovered from wounds, has been pensioned and has returned to work; one (H. Munro) is missing; one is in hospital dangerously wounded, and the others are still on active service, several having recovered from wounds. In addition, 24 have attested under Lord Derby's scheme. Those unable to serve, or who have not yet been called up, are doing extra work, and it has been possible to get on with little temporary assistance.

## ROLL OF MEMBERS.

4. The number of Fellows and Fellows Elect was 4,800 on January 1st, 1915, and 4,701 on January 1st, 1916. The reduction was due partly to a smaller number of new Fellows and partly to a greater number of deaths and resignations. This decrease in membership, although smaller than was anticipated, is likely to be progressive, and the Council hopes that Fellows will make a special effort to obtain candidates for the Fellowship.

## CORRESPONDING MEMBER.

5. Major Herbert Robert Wigram, Game Preservation Department, Srinagar, Kashmir, India, was elected a Corresponding Member.

## SCIENTIFIC MEETINGS.

6. The usual twelve meetings for scientific business were held, and there was no decrease in the numbers attending, or in the value of the scientific work communicated.

## SCIENTIFIC PUBLICATIONS.

7. The *Abstract* was issued as usual. The two volumes of the *Proceedings* were issued in four parts in March, June, September and December, but the numbers of pages and plates were reduced.

Of the *Transactions*, five parts were published, completing Volume XX. Parts 13, 14, 15 and 16 concluded the reports on the Collections made by the British Ornithologists' Union Expedition and the Wollaston Expedition in Dutch New Guinea, the publication of which had been undertaken before the War. Part 17 was a continuation of the study of the Foraminifera of the Kerimba Archipelago by Messrs. Heron-Allen and Earland, and its publication was made possible by the generosity of one of the authors, Mr. Edward Heron-Allen, F.Z.S., who defrayed the cost of the 14 quarto plates. The fifty-first volume of the "Zoological Record" was somewhat delayed on account of the War, but the separate divisions were issued

in January, 1916, and the complete volume in March, 1916. The fifty-second volume, relating to the literature of 1915, is now in preparation, and subscribers to the "Zoological Record" or to the "International Catalogue of Scientific Literature" may receive it in either form at the subscription price of 30s., if the order is given to this Society by August 1st, 1916.

#### LIST OF EXCHANGES.

8. The University of Illinois has been added to the list of Institutions with which the Society exchanges Scientific publications.

#### GARDEN GUIDE AND PICTURE POST CARDS.

9. The thirteenth edition of the Garden Guide was prepared as usual, and a fourteenth edition is in the Press. Since 1903, 521,674 copies have been sold. Of picture post cards, 73,435 of the 1914 series and 24,630 of the 1915 series were sold in 1915.

#### LIBRARY.

10. In 1915, 963 visits to the Library were paid by Fellows and persons introduced by them, and 1,259 volumes were borrowed. With regard to Scientific periodicals, the total output for 1915 was below the normal, but, except in the case of enemy countries, purchases and exchanges have been received as usual. No exchanges have been made with enemy countries, but some of the more important periodicals have been purchased through neutrals by special permission of H.M. Government. Of newly published zoological books, 26 have been presented by the authors or others and 38 have been purchased.

#### PROSECTORIUM.

11. The Prosector, Dr. F. E. Beddard, F.R.S., has resigned after holding his post for 32 years. In accepting the resignation, to date from January 1st, 1916, the Council conferred a pension on Dr. Beddard at the rate of £250 per annum, and resolved that in granting the pension they



desired to place on record their high appreciation of the distinguished scientific position attained by Dr. Beddard as the result of the numerous memoirs he had published during his long tenure of the Prosectorship.

The Council do not propose to appoint another Prosector during the War.

12. The Pathologist, Mr. H. G. Plimmer, F.R.S., has been appointed Professor of Comparative Pathology at the Imperial College of Science, but has agreed to continue his work for the Society until the end of the War. His report on the Deaths at the Gardens during 1915 was communicated to a Scientific Meeting of the Society on February 8th, 1916, and is printed in full in the *Proceedings* for 1916.

#### THE GARDENS.

13. The Council has continued its policy of postponing new works and of limiting expenditure to necessary upkeep and repairs.

#### FLY EXHIBITION AND INVESTIGATIONS.

14. Early in 1915, at the suggestion of Professor Maxwell Lefroy, Honorary Curator of Insects, the Council arranged to hold an Exhibition illustrating the dangers to health due to Blow-flies, Blue-bottles and House-flies and the methods of dealing with them. It was soon found that much further investigation was required into many problems connected with Flies and it was decided to undertake research work in addition to exhibition. The Local Government Board and Mr. Otto Beit made donations respectively of £90 and £50 for the purpose and the Society bore the remainder of the cost. The Imperial College of Science and the Royal Horticultural Society joined with this Society in freeing Professor Lefroy from all other duties to enable him to devote his whole time to the work. The Imperial College, the Royal Horticultural Society, the Horticultural Stations at Swanley and Reading, the Military Authorities, and the Cooper Research Laboratory at Watford, all gave most valuable opportunities for the carrying out of experimental work.

Important practical results were attained respecting the treatment of stable manure and domestic refuse, the use of traps and baits for adult flies and of fly-sprays. The results, as they were obtained, were communicated to the War Office and to the Local Government Board. The publication of a full description of the experiments has been delayed, as Professor Lefroy, in the end of 1915, went to India on Government work.

The Exhibition was visited by the general public in large numbers, and special demonstrations were given to units of the R.A.M.C., and to members of Civilian Sanitary Authorities. Sets of lectures were given to the general public and practical information was issued in two pamphlets published by the Society.

#### EXHIBITION OF INTENSIVE POULTRY CULTURE.

15. The Council has arranged to open an Exhibition in the Season of 1916, showing the most recent modes of keeping poultry on a small scale for the production of eggs. The object of the Exhibition is to show arrangements suitable for small urban households who wish to provide their own egg-supply, rather than for poultry-keeping as a commercial industry.

#### RED CROSS COURSE IN FIRST AID.

16. A course of lectures and practical work in First Aid, conducted by Professor Plimmer and Dr. Chalmers Mitchell under the regulations of the Red Cross Society, was attended by 25 members of the Office and Garden Staff. All the members of the class passed the examination and qualified for the First Aid Certificate. A small room at the Sanatorium has been fitted for First Aid Treatment and Ambulance Work.

#### REFRESHMENT DEPARTMENT.

17. The Accounts have been audited, as usual, by Messrs. Edward Moore & Sons. The gross profit amounted, after feeding the Staff, to £11,147. 10s. 9d. The working expenses for the same period amounted to £5,272. 7s. 8d., leaving a trading profit of £5,875. 3s. 1d. After making the usual allowances for rent, depreciation, and licence duties, etc., and allotting the receipts from

the lavatories on the same lines as last year, and deducting the Manager's salary and percentage, there was a net profit to the Society amounting to £2,875. 19s. 6d. Of that sum £2,000 was invested for the credit of the Refreshment Room Rebuilding Fund, and the balance carried to the Society's General Account.

The Licensing Magistrates renewed our licence for a further period of  $3\frac{1}{4}$  years and reduced the annual monopoly value payable by the Society from £100 to £75.

#### VISITORS.

18. The total number of visitors to the Gardens during the year was 1,058,728, the second largest number in the history of the Society. The large attendance was due partly to special arrangements made by the Council for the duration of the War, or until further notice, as set forth in the next paragraph.

#### SPECIAL ARRANGEMENTS FOR ADMISSION DURING THE WAR.

19. (1) The families of Soldiers and Sailors on Active Service will be admitted free, by the Time-keepers' gate, on production of the identity certificate in the case of the Regular and Territorial Forces, and of the allotment certificate in the case of Naval Ratings.

(2) Wounded Soldiers or Sailors and Officers and Men in uniform will be admitted free on Sundays, on application at the Office.

(3) Saturdays as well as Mondays will be Sixpenny days.

(4) Tickets for British and Colonial Troops or Sailors, and for Belgian Refugees, may be purchased at the Office, at the rate of 3d. each for Mondays and Saturdays, and 6d. each for other Week-days.

All other arrangements for admission to the Gardens are as usual.

#### PROVISIONS.

20. The cost of provisions has increased materially, and the Council has thought it prudent to decrease the stock by disposing of some animals that could easily be replaced.

Apart from the cost, there has been no difficulty in obtaining the necessary supplies for all the animals in the Gardens, and although special endeavours have been made to replace expensive articles of diet by less costly substitutes, the normal food has been at once supplied in those cases in which the health of the animal appeared to suffer.

21. The following table gives the chief items of expenditure paid in 1914 and 1915:—

	1914.			1915.		
	£	s.	d.	£	s.	d.
Hay ... ..	544	18	2	758	8	9
Clover ... ..	342	18	3	441	8	11
Green-food and Chaff ...	155	15	9	156	10	5
Oats ... ..	348	9	6	346	12	0
Bran ... ..	46	9	3	58	0	6
Maize ... ..	66	15	6	84	18	0
Barley ... ..	57	17	9	74	19	0
Grain and Seeds ... ..	293	5	5	253	15	0
Fish (Sea) ... ..	497	12	0	670	4	10
„ (Freshwater) ... ..	141	4	7	113	11	0
Horses ... ..	722	7	7	778	6	3
Goats ... ..	53	14	9	16	0	0
Meat ... ..	64	8	5	39	14	0
Fowls' Heads ... ..	57	11	6	6	19	3
Milk ... ..	111	18	2	101	18	5
Fruit ... ..	431	7	8	410	14	5
Vegetables ... ..	197	5	6	181	1	4
Bread ... ..	123	17	11	170	12	0
Biscuit ... ..	195	19	4	219	17	7
Eggs ... ..	145	19	1	147	9	5
Food for Insectivorous Birds, &c.	88	4	7	90	4	5
Vermin ... ..	223	7	9	150	9	0
Miscellaneous ... ..	55	4	6	57	13	10
	<u>£4966</u>	<u>12</u>	<u>11</u>	<u>£5329</u>	<u>8</u>	<u>4</u>

22. Comparative return giving the Dry Fodder, Straw and Food-stuffs consumed in the Society's Gardens during the years 1914 and 1915:—

Description.	Quantity, 1914.	Quantity, 1915.
Hay ... ..	169 $\frac{3}{4}$ Loads ...	170 $\frac{1}{4}$ Loads.
Clover ... ..	89 Loads ... ..	89 Loads.
Straw... ..	153 Loads ... ..	121 $\frac{3}{4}$ Loads.
Chaff ... ..	25 $\frac{1}{4}$ Tons ... ..	25 Tons.
Tares ... ..	4,327 Bundles ...	3,237 Bundles.
Oats ... ..	327 $\frac{1}{4}$ Quarters ...	247 $\frac{1}{2}$ Quarters.
Bran ... ..	170 Quarters ... ..	157 Quarters.
Wheat ... ..	48 Quarters ... ..	11 Quarters.
Barley ... ..	38 $\frac{1}{2}$ Quarters ... ..	50 $\frac{1}{4}$ Quarters.
Maize... ..	47 Quarters ... ..	54 Quarters.
Dari ... ..	5 $\frac{3}{4}$ Quarters ... ..	9 $\frac{1}{4}$ Quarters.
Beans... ..	4 Quarters ... ..	$\frac{1}{2}$ Quarter.
Rice ... ..	2 Tons, 16 cwts....	2 Tons, 11 $\frac{3}{4}$ cwts.
Canary ... ..	16 $\frac{1}{2}$ Quarters ... ..	13 Quarters.
Hemp ... ..	13 $\frac{1}{2}$ Quarters ... ..	14 $\frac{1}{2}$ Quarters.
Millet ... ..	7 $\frac{3}{4}$ Quarters ... ..	4 $\frac{3}{4}$ Quarters.
Millet Spray...	6 Bunches ... ..	2 Bunches.
Herrings and Whiting ... ..	67,764 lbs. ... ..	65,201 lbs.
Shrimps ... ..	668 $\frac{1}{2}$ Pints ... ..	nil.
Horses ... ..	382 = 191 tons ... ..	545.
Goats ... ..	84 = 401 $\frac{1}{4}$ stone ...	25.
Condensed Milk	3,504 Tins ... ..	2,364 Tins.
New ,,	10,443 Pints ... ..	10,257 Pints.
Spanish Nuts	30 $\frac{1}{2}$ Pecks ... ..	17 Pecks.
Monkey ,,	39 cwts. ... ..	27 $\frac{3}{4}$ cwts.
Brazil ,,	260 lbs. ... ..	140 lbs.
Bananas ... ..	116,397 ... ..	116,758.
Apples ... ..	239 $\frac{1}{2}$ Pecks ... ..	217 $\frac{1}{2}$ Pecks.
Grapes ... ..	1,931 $\frac{1}{4}$ lbs. ... ..	1,707 $\frac{3}{4}$ lbs.
Oranges ... ..	13,673 ... ..	12,306.
Lemons ... ..	240 ... ..	nil.
Pears ... ..	nil ... ..	244.
Dates... ..	3,671 $\frac{1}{2}$ lbs. ... ..	3,779 lbs.
Currants ... ..	320 lbs. ... ..	488 lbs.
Figs ... ..	135 lbs. ... ..	92 lbs.
Sultanas ... ..	288 lbs. ... ..	184 lbs.

Description.	Quantity, 1914.	Quantity, 1915.
Lettuce ...	12,085 ...	10,488.
Greens ...	1,038 Bushels ...	1,015½ Bushels.
Cress ...	493 Bunches ...	492 Bunches.
Carrots ...	5,926 lbs. ...	3,849½ lbs.
Carrots ...	493 Bunches ...	nil.
Potatoes ...	18,116 lbs. ...	15,904 lbs.
Onions ...	128 lbs. ...	312 lbs.
Onions ...	72 Bunches ...	nil.
Mangel ...	2 Tons, 16½ cwts. ...	nil.
Biscuits ...	250 cwts....	222 cwts.
Biscuits, Ground ...	44¼ cwts....	47 cwts.
Sugar ...	417 lbs. ...	649 lbs.
Bread... ..	6,188 quarterns ...	5,431 quarterns.
Eggs ... ..	29,900 ...	23,400.
Oil Cake ...	51 cwts. ...	55 cwts.
Meat & Vegetable Extracts	240 ozs. ...	172 ozs.
Fowls' Heads...	26,070 ...	2,208.
Chickens ...	44 ...	98.
Rabbits ...	839 ...	493.
Guinea Pigs ...	140 ...	nil.
Pigeons ...	339 ...	86.
Rats ... ..	7,951 ...	6,373.
Mice ... ..	18,527 ...	13,751.
Ducks ... ..	57 ...	15.
Sparrows ...	5,799 ...	1,592.
Starlings ...	172 ...	nil.

#### ANIMALS BRED IN THE GARDENS IN 1915.

23. Seventy-four Mammals were born in the Gardens, of which 32 were reared. The most interesting successes were a Capped Langur Monkey, a Puma, 2 Beavers and a Reindeer. Three hybrids between a male Markhor and a Domestic Goat died on the day of birth. 126 birds were hatched, and of these 99 were reared. The successes included 2 Diuca Finches, 2 Mexican Rose-Finches, 1 Wood-Swallow, 2 Cockatiels, 1 Lorikeet, and 9 Pheasants.

24. The number of Vertebrate Animals living in the Society's Menagerie at the end of 1915 was 3,219. The

corresponding number on the 31st of December, 1914, was 3,291, as will be seen by the following Table:—

	December 31.	
	1914.	1915.
Mammals .....	733	690
Birds .....	2,073	1,989
Reptiles and Batrachians .....	371	426
Fishes .....	114	114
	3,291	3,219

The total number of registered additions to the Menagerie in 1915 was 1,703, of which 964 were acquired by presentation, 148 by purchase, 167 were born in the Gardens, 294 were received on deposit, and 130 obtained in exchange.

#### NOTABLE ADDITIONS AND SPECIES NEW TO THE COLLECTION.

25. The detailed monthly lists have been published as usual in the *Proceedings*. Of the species new to the collection, 8 were Mammals, 20 Birds, 2 Reptiles, and 2 Batrachians.

#### LIST OF DONORS AND DONATIONS.

26. Individual letters of thanks were sent to 300 Donors with respect to 964 donations made to the Society's Collection in 1915. At the present time, when purchases are being reduced, the Society is more than usually indebted to the generosity of Donors.

#### STATE OF THE FINANCES.

27. The Report of the Auditors of the Accounts for 1915 is issued to Fellows, bound at the end of this Report. As, however, some of the Fellows prefer a statement on the simple Receipts and Payments system, such information is given in the next paragraph.

28. The total sum actually received within the year was £46,261 15s. 5d. To this has to be added the balance brought forward from December 31st, 1914, amounting to £4,042 15s. 8d., giving £50,304 11s. 1d. From this there is to be deducted the sum of £300, invested to add to the Composition Account (being the fees of six new Compounders at £45 and one at £30). There was thus left the sum of £50,004 11s. 1d. available for the

expenditure of the year. The ordinary payments for the year amounted to £33,939 15s. 6d., leaving a balance on the working of the Society for the year amounting to £16,064 15s. 7d. From this has to be deducted the sum of £5,000, the portion of the loan repaid to the Bankers, £674 3s. interest on the loan, and £3,562 17s. 8d. invested for the Refreshment Room Rebuilding Fund, leaving a surplus at the end of the year amounting to £6,827 14s. 11d.

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

30. *Comparison of Assets, 1914 and 1915.*

ASSETS.	1914.			1915.			Comparison.			
	£	s.	d.	£	s.	d.	£	s.	d.	
Animals in the Menagerie.....	18,505	0	0	17,282	3	0	-	1,222	17	0
Plant and Fittings in Refreshment Department .....	2,122	2	11	2,122	2	11		—		
Freehold Premises, Hanover Square .....	30,000	0	0	30,000	0	0		—		
Books in the Library.....	23,480	15	0	23,480	15	0		—		
Unsold Publications .....	500	0	0	500	0	0		—		
„ „ “Zoological Record” .....	500	0	0	500	0	0		—		
Debts due to the Society .....	712	6	3	651	2	2	-	61	4	1
Petrol Supply Society, 50 shares of £1 each	50	0	0	50	0	0		—		
Rates and Insurance paid in advance .....	329	8	4	350	15	4	+	21	7	0
New Composition Fund (invested) .....	6,435	0	0	6,735	0	0	+	300	0	0
Animal Insurance and Purchase Fund (invested).....	300	0	0	500	0	0	+	200	0	0
Refreshment Room Rebuilding Fund (invested) .....	1,000	0	0	4,562	17	8	+	3,562	17	8
Refreshment Room Depreciation Fund (invested) .....	300	0	0	600	0	0	+	300	0	0
Refreshment Room (Current Assets and Working Capital) .....	611	13	0	390	18	11	-	220	14	1
Cash at Bank (General Account).....	4,042	15	8	6,827	14	11	+	2,784	19	3
„ „ Animal Insurance .....	74	14	11	83	11	11	+	8	17	0
„ „ Garden Improvement .....	141	9	8	115	14	8	-	25	15	0
„ „ Reserved Wages Fund .....	56	19	4	517	19	7	+	461	0	3
„ „ Refreshment Rebuilding Fund.....	38	3	4	—			-	38	3	4
„ „ Refreshment Depreciation Fund.....	5	16	9	—			-	5	16	9
	£89,206	5	2	£95,270	16	1	+	£6,064	10	11



31. The decrease in the value of the animals was due to a smaller number of additions by presentation or purchase in the course of the year. The Refreshment Room Rebuilding Fund has been increased by £1,562 17s. 8d. from 1914, held over until 1915, and £2,000 from 1915. The increase in cash at the Bank is due chiefly to some large bills relating to the year 1915 having been late, and there is a corresponding increase in the liabilities under the heading "Sundry Creditors."

*Comparison of Liabilities, 1914 and 1915.*

LIABILITIES.	1914.			1915.			Comparison.			
	£	s.	d.	£	s.	d.	£	s.	d.	
Sundry Creditors and Rent and Taxes ...	1,753	17	6	3,144	12	7	+	1,390	15	1
Messrs. Drummond, Loan Account.....	21,000	0	0	16,000	0	0	-	5,000	0	0
Subscriptions received in advance .....	262	8	2	257	4	0	-	5	4	2
	£23,016	5	8	£19,401	16	7	-	3,614	9	1

*Comparison of Balances, 1914 and 1915.*

	1914.			1915.			Comparison.			
	£	s.	d.	£	s.	d.	£	s.	d.	
BALANCE, being Excess of Assets over Liabilities—										
Composition Fund (not separately invested) .....	1,576	0	0	1,124	0	0	-	452	0	0
New Composition Fund (separately invested) .....	6,435	0	0	6,735	0	0	+	300	0	0
General Purposes .....	55,713	1	10	60,747	3	7	+	5,034	0	9
Garden Improvement Fund .....	135	9	8	103	14	8	-	31	15	0
Animal Insurance and Purchase Fund .....	374	14	11	583	11	11	+	208	17	0
Refreshment Rebuilding Fund .....	1,038	3	4	4,562	17	8	+	3,524	14	4
Refreshment Room Depreciation Reserve.....	605	16	9	900	0	0	+	294	3	3
Refreshment Room Current Assets and Working Capital .....	311	13	0	90	18	11	-	220	14	1
Reserve for Depreciation of Investments .....	—			1,021	12	9	+	1,021	12	9
	£66,189	19	6	£75,868	19	6	+	9,679	0	0

32. The improvement of the balance of £9,679 is the net increase in Assets *plus* the net decrease of Liabilities. It will be noticed that £5,000, instead of £2,000 as required by the agreement with the Bankers, has been repaid on account of the loan. The decrease in the item "Refreshment Room Current Assets" is due to a loss in the last quarter of the year. The Refreshment Rooms are kept open in the winter months for the convenience of Fellows and Visitors, but the receipts seldom cover the expenditure during that period.

33. *Comparison of Income, 1914 and 1915.*

	1914.			1915.			Comparison.			
	£	s.	d.	£	s.	d.	£	s.	d.	
Admission Fees .....	1,380	0	0	805	0	0	—	575	0	0
Subscriptions (Fellowship) .....	11,195	0	0	10,972	3	2	—	222	16	10
Composition Fees (proportion of uninvested Fund transferred in respect of the year) .....	530	0	0	452	0	0	—	78	0	0
Interest and Dividends received .....	201	2	11	337	2	0	+	135	19	1
Sale of Animals, &c. ....	364	15	0	366	15	8	+	2	0	8
Rent of Refreshment Rooms .....	1,000	0	0	1,000	0	0		—		
Rent of Bath-chairs .....	11	0	0	11	0	0		—		
Rents—Hanover Square .....	1,200	0	0	1,200	0	0		—		
Rent—British Beekeepers' Association ...	45	14	0	10	4	6	—	35	9	6
Admission to Gardens .....	24,647	5	10	23,382	3	0	—	1,265	2	10
Riding Receipts .....	972	13	8	1,110	18	10	+	138	5	2
"Garden Guide" and Post-card sales, less expenses, printing, &c. ....	902	9	8	821	3	3	—	81	6	5
Rent of Lavatories .....	249	8	6	283	2	3	+	33	13	9
"Zoological Record" Sales .....	87	11	6	80	4	0	—	7	7	6
Sale of Ivory Tickets, and Artists' and Photographers' Permits .....	43	2	6	48	15	0	+	5	12	6
Miscellaneous Receipts .....	5	17	3	2	18	0	—	2	19	3
Lectures, Grant from London County Council, less expenses .....	12	6	0	—			—	12	6	0
Refreshment Room profits <i>less</i> amounts invested and credited to Works Department.....	2,292	18	5	875	19	6	—	1,416	18	11
	£45,141	5	3	£41,759	9	2	—	£3,381	16	1

34. The large decrease in the item "Refreshment Room profits" is a matter of book-keeping, £1,562 17s. 8d., the net profits under this head in 1914, having been retained until 1915, as the Council thought it possible that they would be required to meet current expenditure. They were invested in the course of 1915.

35. *Comparison of Ordinary Expenditure, 1914 and 1915.*

	1914.			1915.			Comparison.			
	£	s.	d.	£	s.	d.	£	s.	d.	
Rent, Rates, &c., Gardens .....	1,751	12	6	1,674	2	11	-	77	9	7
Amount set aside for Insurance and Purchase of Animals Fund.....	—			200	0	0	+	200	0	0
Reserve for Depreciation of Investments .....	—			1,021	12	9	+	1,021	12	9
Reserve for contingent Income Tax liability .....	—			750	0	0	+	750	0	0
Property Tax, Refreshment Department .....	69	14	1	123	1	7	+	53	7	6
Property Tax, Hanover Square .....	92	10	0	—			-	92	10	0
Salaries, Gardens .....	7,987	16	0	8,036	2	4	+	48	6	4
Do. Office .....	2,087	1	11	2,094	19	4	+	7	17	5
Pensions, Gardens .....	598	0	0	578	18	8	-	19	1	4
Do. Office .....	262	0	0	262	0	0	—			
Provisions .....	4,924	15	10	5,062	9	3	+	137	13	5
Cost and Carriage of Animals .....	1,867	7	10	455	7	2	-	1,412	0	8
Menagerie Expenses .....	3,483	8	6	3,001	18	0	-	481	10	6
Prosectorium Expenses.....	839	7	4	831	9	2	-	7	18	2
Works (Ordinary) .....	5,628	15	3	2,912	11	9	-	2,716	3	6
Gardeners' Expenses .....	1,925	13	1	1,651	6	2	-	274	6	11
Advertisements .....	731	7	7	391	16	9	-	339	10	10
Band Expenses (Net) .....	152	18	4	227	19	9	+	75	1	5
House and Office Expenses, Gardens .....	288	4	0	303	19	10	+	15	15	10
Do. do. Principal Offices...	1,160	18	0	1,064	1	10	-	96	16	2
Stationery and Printing (Miscellaneous) .....	474	12	4	376	11	5	-	98	0	11
Cost of Publications (Net).....	715	14	1	550	7	1	-	165	7	0
Cost of "Zoological Record" (Net).....	229	3	0	675	3	0	+	446	0	0
Library Expenses .....	449	4	9	629	15	4	+	180	10	7
Law Expenses and Fees .....	24	6	10	94	10	1	+	70	3	3
Cost of Medals .....	13	19	0	—			-	13	19	0
Scientific Grants, &c. ....	425	0	0	245	0	0	-	180	0	0
Fly Exhibition (Net cost) .....	—			50	5	7	+	50	5	7
<b>TOTALS .....</b>	<b>£36,183</b>	<b>10</b>	<b>3</b>	<b>£33,265</b>	<b>9</b>	<b>9</b>	<b>-</b>	<b>£2,918</b>	<b>0</b>	<b>6</b>

36. The contribution of £200 to the reserve for purchase of animals, suspended in 1914, was paid as usual in 1915. The reserve for depreciation is a new item,

credited in the Balance. It has been invested in 1916. The Income Tax liability was still under discussion at the end of 1915. The Property Tax at Hanover Square has been remitted by the Commissioners. The increase in the net cost of the "Zoological Record" is due to the inability, possibly temporary, of the Royal Society to continue their agreement with this Society in regard to the publication of the Record. The reductions are in most cases due to limitation of expenditure to what was thought necessary for maintenance.

37. The Council, with renewed confidence, is able, after experience of a full year of the conditions of war, to repeat its expression of hope that all the Society's activities can be maintained on a reduced but efficient scale for several years without trenching on reserves. The income has been larger than was anticipated, and the expenditure has been limited rigidly to what was necessary for maintenance, with the result that the Society's Capital financial position has been strengthened in the course of the year.

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

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

Signed (for the Council),

P. CHALMERS MITCHELL,  
*Secretary.*

Regent's Park, N.W.,  
15th March, 1916.

**REPORT**  
 OF THE  
**AUDITORS OF THE ACCOUNTS**  
 OF THE  
**ZOOLOGICAL SOCIETY**  
 OF LONDON,  
 APPOINTED, 19th JANUARY, 1916.

The Committee of Auditors of the Zoological Society of London (with the assistance of the Professional Auditor who has certified the whole of the Accounts in detail, except those of the Refreshment Department, which are separately audited), having examined the Books and Accounts for the year ended 31st December, 1915, submit to the Society an Abstract of the Accounts, together with a Statement of Assets and Liabilities at the close of the year.

It will be seen that the excess of Ordinary Income over Expenditure has been £8,493 19s. 5d., while there has been an Extraordinary Expenditure of £674 3s. 0d. in respect of interest on the Loan from the Bankers for the New Buildings, which Loan has been reduced this year by £5,000 and now stands at £16,000, for which the Bankers hold security.

The Old Composition Fund not separately invested has been reduced by the transfer of £452 to Income and Expenditure Account in accordance with the usual practice, while the New Composition Fund has been increased by Composition Fees received amounting to £300. This Fund now stands at £6,735 and is separately invested, the income therefrom being carried to the Income and Expenditure Account.

The Investments in:—

£1,017 14s. 2d. West Australian 4% Stock, 1942/62,  
 £312 17s. 1d. New South Wales 4% Stock, 1942/62,  
 £5,615 13s. 4d. India 3½% Stock,  
 £1,443 19s. 1d. London County 3½% Stock,  
 £706 16s. 4d. Consolidated 2½% Stock,  
 £4,072 3s. 7d. War Stock 4½%

which appear among the Assets in the Balance Sheet at the cost price of £12,397 17s. 8d., were at the quoted prices at 31st December, 1915, of the value of £11,376 4s. 11d., and a Reserve of £1,021 12s. 9d. has been provided to meet Depreciation, and appears on the other side of the Balance Sheet.

The Auditors are glad to learn that since the close of the year the sum of £382 19s. 6d. has been recovered for Property Tax and Income Tax on dividends in respect of the three years ended 5th April, 1915. As questions are pending as to the liability of the Society for Income Tax on other accounts, this amount is not brought to the credit of the Income and Expenditure Account, but a net sum of £750 is reserved out of income to meet any possible liability. The income received on investments in respect of the Refreshment Room Re-building Fund and the Refreshment Department Depreciation Fund are not accumulated but brought into the General Income and Expenditure Account.

The Audit Committee have had submitted to them the Balance Sheets and Accounts of the Refreshment Department as separately audited by Messrs. Edward Moore & Sons and have incorporated the results in the General Accounts.

It will be seen that the profit on the Refreshment Department for the year to 2nd October, 1915, was £2,998 5s. 5d., which is after charging the sum of £1,000 by way of rent to the Society, and after taking credit for three-fifths of the receipts from Cloak-Rooms and Lavatories (the remaining two-fifths being credited to the Society's General Account). From the profits there has been deducted £48 5s. 4d. in respect of work carried out by the Society's Staff, and £74 0s. 7d. for legal expenses in connection with licence and monopoly value, leaving the sum of £2,875 19s. 6d., out of which the sum of £2,000 has been set aside and credited to the Refreshment Department Rebuilding Fund. The balance of the Refreshment Department profit amounting to £875 19s. 6d. is brought to the credit of the Society's General Account.

The result of the year's working is, in the opinion of the Committee of Auditors, most satisfactory, the careful supervision of all expenditure having led to a considerable strengthening of the financial position, notwithstanding the reduction in receipts for admissions to the Gardens, and the high prices paid for food and materials.

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ACCOUNTS.

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## BALANCE SHEET

Corresponding  
figures,  
31st Dec., 1914.

## LIABILITIES.

£	s.	d.	£	s.	d.	£	s.	d.	
87,250	12	1	Brought forward ... ..	69,293	10	2	19,401	16	7
Refreshment Room Rebuilding Fund—									
			As at 1st January, 1915 ...	1,038	3	4			
			Less Dividends transferred to Income and Expenditure Account ... ..	38	3	4			
				1,000	0	0			
Add—									
			Portion of Refreshment Department Profits 1914 transferred ... ..	1,562	17	8			
			Amount set aside out of Refreshment Department Profits 1915 ... ..	2,000	0	0			
1,038	3	4		4,562	17	8			
Refreshment Department—									
			Depreciation Fund, as at January 1st, 1915... ..	605	16	9			
			Less Dividends transferred to Income and Expenditure Account ... ..	5	16	9			
				600	0	0			
Add further Transfer out of profits for year to 2nd Oct., 1915, to be paid over									
605	16	9		300	0	0			
				900	0	0			
311	13	0	Amount retained for Working Capital ... ..				90	18	11
			Reserve for Depreciation of Investments ... ..	1,021	12	9			
							75,868	19	6

£89,206 5 2

£95,270 16 1

£89,206 5 2

31st DECEMBER, 1915—continued.

Corresponding  
figures,  
31st Dec., 1914.

## ASSETS.

£	s.	d.	£	s.	d.	£	s.	d.
84,234	12	6	Brought forward ... ..	87,334	16	1		
611	13	0	By Refreshment Department Current Assets net at 1st January, 1916 ... ..	390	18	11		
			„ Cash at Bank, General Account ... ..	6,827	14	11		
4,359	19	8	„ Cash at Bank, Animal Insurance and Purchase Fund ... ..	83	11	11		
			„ Cash at Bank, Gardens Improvement Fund ...	115	14	8		
			„ Cash at Bank, Reserved Wages Account ...	517	19	7		

£89,206 5 2

£95,270 16 1

## INCOME AND EXPEN

FOR THE YEAR ENDED

ORDI

Corresponding  
figures,  
31st Dec., 1914.

£ s. d.		INCOME.		£ s. d.		£ s. d.	
1,380	0 0	Admission Fees (New Fellows)	...	805	0 0		
11,195	0 0	Subscriptions (Fellows)	...	10,972	3 2		
		Compositions—					
		Proportion of uninvested Fund transferred in respect of the year—					
		34 Fellows deceased during the year	...	32	0 0		
		210 Fellows at £2	...	420	0 0		
530	0 0			452	0 0		
201	2 11	Dividends and Interest received	...	337	2 0		
364	15 0	Sale of Animals, &c.	...	366	15 8		
1,000	0 0	Rent of Refreshment Rooms	...	1,000	0 0		
11	0 0	Rent of Bath Chairs	...	11	0 0		
1,200	0 0	Rent, Hanover Square	...	1,200	0 0		
45	14 0	British Bee Keepers' Association, Rent	...	10	4 6		
24,647	5 10	Admissions to Gardens...	...	23,382	3 0		
972	13 8	Riding Receipts...	...	1,110	18 10		
		Sale of Official Guides and Postcards	...	1,156	2 8		
		Less Expenses, Printing, &c.	...	334	19 5		
902	9 8			821	3 3		
249	8 6	Lavatories	...	283	2 3		
87	11 6	Sale of "Zoological Records"	...	80	4 0		
		Sale of Transferable Ivory Tickets and Artists' and Photographers' Permits	...	48	15 0		
43	2 6	Miscellaneous Receipts...	...	2	18 0		
5	17 3	Lecture Grant from London County Council	...				
12	6 0	Refreshment Department Profit	...	2,998	5 5		
		Less Transferred to Works Account £48	5 4				
		Legal Expenses <i>re</i> Licence and Monopoly Value	...	74	0 7		
				122	5 11		
				2,875	19 6		
		Less Amount transferred to Refreshment Department Rebuilding Fund	...	2,000	0 0		
2,292	18 5			875	19 6		

## DITURE ACCOUNT.

31ST DECEMBER, 1915.

NARY.

Corresponding  
figures,  
31st Dec., 1914.

£ s. d.		EXPENDITURE.		£ s. d.		£ s. d.	
1,751	12 6	Rent, Rates, Taxes and Insurance, Gardens	...	1,674	2 11		
		Amount set aside for Insurance and Purchase of Animals' Fund	...	200	0 0		
		Reserve for Depreciation of Investments	...	1,021	12 9		
		Amount set aside to meet contingent liability for Income Tax	...	750	0 0		
69	14 1	Property Tax, Refreshment Department	...	123	1 7		
7,987	16 0	Salaries, Staff and Keepers, Gardens	...	8,036	2 4		
2,087	1 11	Do. Office	...	2,094	19 4		
598	0 0	Pensions, Gardens	...	578	18 8		
262	0 0	Do. Office	...	262	0 0		
4,924	15 10	Provisions, including Storekeeper's Wages	...	5,062	9 3		
1,867	7 10	Cost and Carriage of Animals	...	455	7 2		
		Menagerie Expenses:—					
		Fuel	...	954	19 1		
		Straw	...	251	11 8		
		Water and Pumping	...	867	14 2		
		Keepers' Uniforms	...	122	11 11		
		New Cages, Fittings, &c.	...	86	10 3		
		Sand, Sawdust, Turf, &c.	...	90	7 10		
		Medical Attendance	...	24	11 0		
		Labels and Drawings	...	57	12 8		
		Sanatorium and Veterinary Expenses	...	88	15 10		
		Carts Repairs, Saddlery, &c.	...	13	5 11		
		Net Cost of Upkeep of Motors	...	157	5 4		
		Cleaning Materials and Disinfectants	...	130	6 6		
		Refuse removal	...	52	10 0		
		Police Attendance	...	43	11 6		
		Sundries	...	60	4 4		
3,483	8 6			3,001	18 0		
		Prosectorium Expenses:—					
		Salaries	...	779	0 0		
		Chemicals, Apparatus, &c.	...	52	9 2		
839	7 4			831	9 2		
		Maintenance of Buildings, Paths, &c., Gardens:—					
		Wages	...	1,916	5 6		
		Materials, &c.	...	996	6 3		
5,628	15 3			2,912	11 9		
		Gardener's Expenses:—					
		Wages	...	1,484	0 4		
		Seeds, Plants, Implements, &c.	...	167	5 10		
1,925	13 1			1,651	6 2		
731	7 7	Advertisements	...	391	16 9		
152	18 4	Band Expenses (net cost)	...	227	19 9		
		Fuel, Light, &c., at Superintendent's and Keepers' Offices and Houses at Gardens	...	303	19 10		
288	4 0						
		House and Office Expenses, Central Office:—					
		Wages of Housekeeper, Servants and Messengers	...	311	17 4		
		Fuel, Light and Water	...	171	16 0		
		Postage	...	182	5 0		
		Rates, Taxes and Insurance	...	256	11 6		
		Repairs, Office Fittings and Appliances	...	17	2 3		
		Sundries	...	124	9 9		
1,160	18 0			1,064	1 10		
474	12 4	Stationery and Miscellaneous Printing	...	376	11 5		
		Cost of Publications	...	1,268	18 11		
		Less Subscriptions and Sales	...	718	11 10		
715	14 1			550	7 1		

INCOME AND EXPEN  
ORDI

Corresponding  
Figures,  
31st Dec., 1914.

INCOME.

£	s.	d.		£	s.	d.
45,141	5	3	Brought forward ... ..	41,759	9	2
<hr/>				<hr/>		
£45,141	5	3		£41,759	9	2

EXTRA

£	s.	d.		£	s.	d.
4,059	17	5	Balance, being Extraordinary Expenditure carried to Balance Sheet ... ..	674	3	0
<hr/>				<hr/>		
£4,059	17	5		£674	3	0

DAVIS

£	s.	d.		£	s.	d.
71	9	9	Dividends ... ..	£68	9	0
<hr/>				<hr/>		

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

Zoological Society of London,  
Regent's Park, N.W.,  
February 24th, 1916.

DITURE ACCOUNT—continued.  
NARY.

Corresponding  
Figures,  
31st Dec., 1914.

EXPENDITURE.

£	s.	d.		£	s.	d.
34,949	6	8	Brought forward ... ..	31,570	15	9
<hr/>				<hr/>		
			Preparation and Printing of "Zoological Record" ...	944	12	7
			Less Transfer from Davis Fund ... ..	68	9	7
<hr/>				<hr/>		
			Less Subscriptions to Vol. No. 51 ... ..	876	3	0
229	3	0		201	0	0
<hr/>				<hr/>		
			Library Expenses:—			
			Salaries ... ..	313	10	0
			Books and Binding ... ..	307	5	6
			New Fittings, &c. ... ..	8	19	10
449	4	9		629	15	4
<hr/>				<hr/>		
			Fly Exhibition and Research:—Total Cost ...	190	5	7
			Less Grant from Local Government Board ... £90			
			Donation, Mr. O. Beit ... ..	£50	140	0
<hr/>				<hr/>		
			Cost of Silver Medals ..			
13	19	0				
24	6	10	Law Expenses ... ..			
110	0	0	Scientific Grants ... ..	215	0	0
<hr/>				<hr/>		
			Honorary Life Fellowship Fees paid to New			
			Composition Fund ... ..	30	0	0
<hr/>				<hr/>		
			Property Tax—Hanover Square ... ..			
92	10	0	Balance, being Excess of Income over Ordinary			
8,957	15	0	Expenditure, carried to Balance Sheet ..	8,493	19	5
<hr/>				<hr/>		
£45,141	5	3		£41,759	9	2

ORDINARY.

£	s.	d.		£	s.	d.
3,250	15	5	Extraordinary Expenditure during 1914 ... ..	674	3	0
809	2	0	Interest on Loan at 4% less Income Tax ... ..			
<hr/>				<hr/>		
£4,059	17	5		£674	3	0

TRUST FUND.

£	s.	d.		£	s.	d.
<i>New 4 per cent. Preference Stock.</i>						
71	9	9	Payments to Editor of "Zoological Record" ... ..	£68	9	7
<hr/>				<hr/>		

Vouchers of the Society, and have found them to be in accordance therewith.

PERCIVAL ETHERIDGE (*Chairman*), COL. FREDERIC B. BUNNY,  
STANLEY EDWARDS, THOMAS W. GITTENS, FREDERICK J. GOOD-  
CHILD, JOHN HOPKINSON, WILLIAM HUNTSMAN, } *Committee of*  
*Auditors.*

W. B. KEEN,  
*Chartered Accountant.*