

LEGISLATIVE ASSEMBLY.
NEW SOUTH WALES.

AUSTRALIAN MUSEUM.

(REPORT OF THE TRUSTEES FOR THE YEAR ENDED 30TH JUNE, 1916.)

Presented to Parliament pursuant to Act No. 61, 1902, Sec. 10.

Ordered by the Legislative Assembly to be printed, 1 November, 1916.

To HIS EXCELLENCY THE GOVERNOR,—

The Trustees of the Australian Museum have the honor to submit to your Excellency their Sixty-first Report, being for the year ended 30th June, 1916.

1. TRUSTEES.

There have been no changes among the Elective Trustees. Surgeon-General W. D. C. Williams, C.B., Lieut.-Colonel R. E. Roth, M.R.C.S.E., and Professor T. W. E. David are still absent on military duty.

Among the Official Trustees Mr. J. Vernon retired from the position of Auditor-General having been succeeded by Mr. F. A. Coghlan.

The following is a list of the Trustees, with records of their attendances at Board Meetings during the year:—

Crown Trustee.

H. H. B. Bradley, Esq., President...	...	11
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Official Trustees.

His Honor the Chief Justice	...	—
The Hon. the President of the Legislative Council	...	—
The Hon. the Colonial Secretary	...	—
The Hon. the Attorney-General	...	—
The Hon. the Colonial Treasurer	...	—
The Hon. the Minister for Public Instruction	...	—
The Auditor-General (Mr. F. A. Coghlan)...	...	8
The President, Medical Board (Sir P. Sydney Jones, M.D., F.R.C.S.)...	...	6
The Surveyor-General and Chief Surveyor (Mr. F. Poate)	...	7
The Director-General of Public Works (Mr. J. Davis, M.I.C.E.)	...	—
The Crown Solicitor (Mr. J. V. Tillett)	...	—

Elective Trustees.

Surg.-Gen. W. D. Campbell Williams, C.B., L.R.C.P., London, &c. (leave of absence granted for military duty)	...	—
Prof. W. A. Haswell, M.A., D.Sc., F.R.S.	...	6
Prof. T. W. E. David, B.A., C.M.G., F.R.S. (leave of absence for military duty)	...	—
Col. Prof. J. T. Wilson, M.B., Ch.M., F.R.S.	...	7
T. Storie Dixson, Esq., M.B., Ch.M.	...	9
W. H. Hargraves, Esq.	...	10
Lieut.-Col. R. E. Roth, D.S.O., M.R.C.S. Eng. (leave of absence for military duty)...	...	—
Eric Sinclair, Esq., M.D.	...	7
Col. The Hon. James Burns, M.L.C. (leave of absence for part of the year)	...	1
The Hon. F. E. Winchcombe, M.L.C.	...	9
J. R. M. Robertson, Esq., M.D.	...	7
Ernest Wunderlich, Esq.	...	5

2. FINANCE.

The Museum has no private source of income, but is supported financially by the Government of New South Wales, first by an endowment of £1,000 provided annually by the Act of Incorporation, and secondly by annual Parliamentary appropriations, varying from year to year to meet requirements.

A summary of the income and expenditure for the year under review is as follows:—

<i>Income.</i>						£	s.	d.
Endowment	...	...	...	...	...	1,000	0	0
Appropriation	...	...	...	...	...	9,620	0	0
Sales of publications and sundries	...	...	...	...	...	75	0	6
Total	...	...	...	...	...	£10,695	0	6

<i>Expenditure.</i>						£	s.	d.
Salaries, allowances for Sunday duty, overtime on holidays, and night watching	...	...	...	...	...	7,981	5	10
Repairs to property and insurance	...	...	...	...	...	346	7	1
Purchase and preservation of specimens, books, and exhibition cases	...	...	...	...	...	837	16	10
Publication of "Records," catalogue, &c.	...	...	...	...	...	200	7	1
Stores, stationery, uniforms, and general expenses	...	...	...	...	...	551	7	10
Total	...	...	...	...	...	£9,917	4	8

The Trustees are pleased to say that on the last Estimates the vote, which had been reduced by £750, was increased by £250, which has enabled them, with the strictest economy, to carry on the work of the Museum and to partially regain its efficiency. It is still necessary to curtail the purchase of Books and Specimens, but it has been found possible to resume publication of the "Records" and to renew the winter course of Lectures; those so far delivered have been well attended.

3. STAFF.

There have been no changes among the members of the staff, except in some of the minor positions. Mr. J. Roy Kinghorn, Junior Assistant, Mr. Rex. W. Bretnall, Junior Assistant, Joseph Kingsley, Assistant to Articulator, and Alex. Mackay, Night Attendant, were granted leave of absence for military duty. Their places are being retained for them.

Following is a list of the Museum Staff as at 30th June, 1916:—

Name and Office.	Date of first appointment in the Museum.	Date of appointment to present position.
Robert Etheridge, Junr., J.P., Curator	18 April, 1887	1 Jan., 1895
Charles Hedley, J.P., Assistant Curator	1 " 1891	20 Dec., 1908
Sutherland Sinclair, Secretary and Librarian	11 Sept., 1882	11 Sept., 1882
Alfred J. North, Ornithologist	1 Dec., 1886	4 Aug., 1891
Wm. J. Rainbow, J.P., Entomologist	— July, 1896	3 Sept., 1896
Charles Anderson, M.A., D.Sc., Mineralogist	22 " 1901	22 July, 1901
Allan R. McCulloch, Zoologist	1 Sept., 1901	1 " 1906
Wm. W. Thorpe, Ethnologist and Curator's Assistant	9 Oct., 1899	1 " 1906
E. A. Briggs, B.Sc., Zoologist	1 June, 1912	1 June, 1912
T. H. Johnston, M.A., D.Sc., Hon. Zoologist	— " 1908	5 Mar., 1909
Edw. F. Hallmann, B.Sc., Hon. Zoologist	9 " 1909	1 April, 1912
Frank T. Clark, C.A., Accountant	1 Jan., 1896	1 Jan., 1896
Wm. A. Rainbow, Assistant Librarian	1 Aug., 1904	1 July, 1906
Jas. A. Trimble, Clerk	1 July, 1909	6 Sept., 1912
T. A. Murphy, Messenger	1 May, 1911	1 June, 1911
Alfred J. Crowe, Library Clerk	14 Dec., 1914	14 Dec., 1914
Rex W. Bretnall, Junior Assistant*	11 Feb., 1907	1 July, 1911
Ellis Le G. Troughton, Junior Assistant	13 " 1908	1 Jan., 1913
J. Roy Kinghorn, Junior Assistant*	1 Sept., 1907	1 July, 1915
Anthony Musgrave, Entomologist's Assistant	7 Feb., 1910	1 Jan., 1915
F. A. McNeill, Zoologist's Clerk	18 May, 1914	14 Dec., 1914
Robert Grant, Taxidermist	— 1887	7 Aug., 1907
Benton S. Lucas, Artificer	1 Mar., 1883	4 May, 1906
Jas. W. Woodhead, Printer	27 Sept., 1897	27 Sept., 1897
Thos. A. Henson, Carpenter	1 May, 1902	8 May, 1906
Henry S. Grant, Collector and Assistant to Taxidermist	5 Oct., 1909	1 Jan., 1913
Chas. Clutton, Articulator	25 April, 1904	1 May, 1913
Herbert Jackson, Assistant to Artificer	9 June, 1910	9 June, 1910

* Absent on military duty.

Name and Office.	Date of first appointment in the Museum.	Date of appointment to present position.
Joseph Kingsley, Assistant to Articulator*	21 July, 1913	21 July, 1913
John Cronin, Chief Attendant	5 " 1909	5 " 1909
Robert Long, Senior do	3 April, 1894	8 Feb., 1897
Arthur Barnes, First Attendant	" " 1897	1 Jan., 1905
J. T. Lee, Attendant	11 Sept., 1905	5 April, 1909
J. H. Wright, do	13 May, 1908	1 July, 1908
John Flanagan, do	1 July, 1909	1 " 1909
T. Rochford, do	1 May, 1911	1 June, 1911
R. L. Carrick, do	14 June, 1911	1 July, 1911
John Watson, do	8 May, 1914	1 June, 1914
T. Johnston, do	13 Dec., 1915	13 Dec., 1915
Mrs. K. Fraser, Attendant...	1 April, 1889	1 April, 1889
Charles E. Long, Night Attendant	6 Mar., 1915	6 Mar., 1915
Alexander Mackay, Night Attendant*	13 Mar., 1915	13 Mar., 1915
Murdock Mackay, Temporary Night Attendant	11 Sept., 1915	11 Sept., 1915

* Absent on military duty.

4. VISITORS.

The Museum continued open throughout the year during the usual hours, viz.:—on week-days (Mondays excepted) 10 a.m. to 5 p.m., and on Sundays from 2 to 5 p.m. The number of visitors recorded on week-days was 125,978, averaging 583, and on Sundays 52,669, averaging 1,013 per day, making a total of 178,647. On Mondays, except when a public holiday falls on that day, the Museum is closed in the morning for cleaning; but in the afternoon students and pupils of public and private schools, with their teachers, also artists, photographers, &c., are admitted and given every facility for study.

ATTENDANCE OF VISITORS.

SUMMARY.					Week-days.	Sundays.	Total.
1860	...	...	...	...	11,300		11,300
1861-1870, average	...	...	...	...	67,145		67,145
1871-1880	...	...	...	...	91,500	35,123*	102,046
1881-1890	...	...	...	...	84,764	43,360	128,124
1891-1900	...	...	...	...	87,788	33,338	121,126
1901-1910	...	...	...	...	125,666	38,790	164,456
1911	...	...	...	...	102,148	43,874	146,022
1912	...	...	...	...	161,557	60,726	222,283
1913 (January to June)	...	...	...	...	73,702	22,683	96,385
1913-1914	...	...	...	...	104,830	49,313	154,243
1914-1915	...	...	...	...	109,922	46,611	156,533
1915-1916	...	...	...	...	125,978	52,669	178,647

* For 1878-79-80 only.

5. LECTURES.

As indicated in a previous paragraph, it has been found possible to partially resume the Monthly Lectures.

The following were therefore given in the Lecture Hall, on Thursday evenings, at 8 o'clock:—

April 13—"Life on the Sea-shore," C. Hedley,

May 11—"Colours of Insects," W. J. Rainbow,

June 8—"War among the Mangroves," A. R. McCulloch,

and it is intended to give the following before the close of the year 1916:—

July 13—"The Origin of the Earth," C. Anderson, M.A., D.Sc.,

August 10—"Curiosities of Aquatic Life," W. J. Rainbow,

September 14—"Scenery and its Causes," C. Anderson, M.A., D.Sc.

6. ACQUISITIONS.

Purchase of Specimens having been almost entirely suspended, very few articles were acquired by that means, and Exchange transactions have also been curtailed from the generally depressed state of affairs.

During October last the Trustees received from His Excellency the Lieut.-Governor of British New Guinea, the whole of the New Guinea Official Ethnological Collection, in trust, for the purpose of storage and safe keeping, until such time as suitable arrangements can be made elsewhere for the proper housing and arrangement of this valuable series. It has been placed in a dry and commodious store-room, and each and every specimen duly catalogued and entered in a Register set apart for the purpose.

The

The following is a list of the principal accessions during the year :—

() DONATIONS.

Mammals	...	...	Mole Rat (<i>Spalax typhlus</i>) from Lemnos, J. R. Kinghorn.
Birds	...	...	Cabots' Horned Tragopan (<i>Cerionnis caboti</i> , Gould); Sooty Owl (<i>Strix tenebriosa</i> , Gould), Council, Royal Zoological Society of New South Wales; Australian Cassowary (<i>Casuarius australis</i> , Wall), Director, Botanic Gardens, Sydney; Peafowl (<i>Pavo cristatus</i> , Linn.), Mrs. George Nicholls; Semi-albino Stubble Quail (<i>Coturnix pectoralis</i> , Gould), Mr. W. G. Banks.
Reptiles	...	...	Melanistic Brown Snake (<i>Diemenia textilis</i> , Dumeril and Bibron); Tuatara Lizard (<i>Sphenodon punctatus</i> , Gray), Council, Royal Zoological Society of New South Wales.
Fish	...	...	Little Tunny (<i>Gymnosarda alleuterata</i> , Rafinesque), Mr. C. H. Gorrick; Collection of Fishes, chiefly Rays obtained by State Trawlers, Manager (D. G. Stead), State Trawling Industry; Black Bream, record weight 7½ lb., Committee, Amateur Fishermen's Association.
Shells	...	...	Three Hundred Foreign Marine Shells, including a set of <i>Spondylus</i> recently described by Mr. Fulton, C. Hedley; One Hundred and Twenty-one Marine Shells, including co-types, from New Zealand, Mr. H. Suter; Twenty-four marine shells from Anson Bay, Northern Territory, Mr. R. J. Winters.
Insects and Arachnida	...	...	Arachnida from Cairns District, Queensland, Mr. A. A. Girault; Insects (chiefly Coleoptera from Blue Mountains), A. Musgrave; Rhopalocera, from Morolee, German New Guinea, Private G. Atcheson; Australian Coleoptera, including co-types, Mr. H. J. Carter; Coleoptera from the Blue Mountains, Mr. B. L. C. Stoyles.
Crustacea	...	...	Collections made by the Mawson Antarctic Expedition, including types of a new genus— <i>Marestia</i> , Rathbun—Sir Douglas Mawson.
Echinodermata	...	...	Co-types of the "Endeavour" Echinoderms recently described by Professor H. Lyman Clark; Collection from Masthead Island, Queensland, with the type of a new Starfish, <i>Asterina leptalacantha</i> .
Hydroids	...	...	<i>Ascidoclava parasitica</i> , a remarkable form found in the peripharyngeal groove of certain Ascidians, Wellington Harbour, N.Z., Professor H. B. Kirk.
Sponges	...	...	Sponges obtained by the State Trawler, "Gunnundaal," in Disaster Bay, New South Wales, Manager (D. G. Stead), State Trawling Industry.
Minerals	...	...	Phosphates from the Wellington Caves Reserve, Mr. G. Dixon; Fluorites from Woolgarlo Mine, near Yass, Mr. Lindsay Robertson.
Ethnology	...	...	Shallow Stone Dishes, Santo, New Hebrides, Mr. J. H. Fysh; Stone Implements and Conical Stones, Parragundy, Queensland Border, Mr. T. G. Foster; One Hundred Specimens from the Papuan Official Collection, His Excellency Judge Murray, Lieutenant-Governor; Replicas of large Adze Blades, copied from specimens in Papuan Official Collection, by permission of above; Four Mangrove Boles, with Shield Removal Scars, from Port Macquarie, Mr. T. Dick.
Numismatics	...	...	Gallipoli Souvenir Medalettes, Messrs. Prouds, Limited, Jewellers, Sydney; Gilt Badge of the "Returned Soldiers' Association," Council of the Association.

(b) EXCHANGES.

Reptiles	...	...	East Indian Reptiles.
Shells	...	...	Fifty-three Species of Marine Shells from the Persian Gulf.
Insects and Arachnida	...	...	Coleoptera from all parts of Australia, amounting to about 313 specimens.
Fossils	...	...	Carboniferous Fossils (including Sponges), from Mt. Marmion, Lennard River, Western Australia; Dromaius remains from King Island.
Minerals	...	...	One Hundred and Fifty-nine specimens, mainly from New England, comprising fine specimens of Native Bismuth, Molybdenite, Cassiterite, Topaz, Wolfram, Quartz.
Ethnology	...	...	Ten Aboriginal Petroglyphs, Port Jackson; Aboriginal Vegetable Fish Poisons chiefly from Queensland; cast of Hawaiaian figure from Ka-hole-a-keawe.

(c)

(c) PURCHASES.

Ethnology ...	...	...	Skulls, Masks, Tablets, &c., from the Papuan Gulf, New Guinea, with the assistance of the Hon. H. C. Hoyle, Assistant Colonial Treasurer and Minister for Railways and Tramways.
Anthropology ...	...	...	Piltown Skull and Mandible, restored.

(d) COLLECTION.

Mammals ...	...	...	Ring-Tail Phalanger (<i>Pseudochirus cooki</i> , Desmarest), from Tasmania; Collector, H. S. Grant.
Birds ...	...	...	Large series of Tasmanian Birds: Collector, H. S. Grant.
Shells ...	...	...	Series dredged (February, 1916) off Montagu Island, New South Wales, including several species new to the State Waters: Collector, C. Hedley.
Insects ...	...	...	Rhoplocera and Heterocera from Morolce, German New Guinea: Collector, W. J. Potter; Insects from Barrington Tops, New England Plateau, New South Wales: Collector, A. Musgrave.
Worms ...	...	...	Examples of the Gigantic Eunicid Grabber Worm (<i>Onuptristères</i> , Ehlers) from Broken Head, New South Wales.
Ethnology ...	...	...	Eucalyptus trunk from Narooma, displaying Aboriginal shield removal scars, &c., climbing nick-like footholds: collector, C. Hedley.

7. BUILDINGS AND GROUNDS.

The Museum Buildings and grounds continue to be maintained in good order. A few minor repairs were carried out as found necessary.

Six of the Moreton Bay Fig-trees along the William-street front, pollarded last year, were entirely removed, affording much-needed light and air to the upper floors at this end of the building.

The Municipal Council of Sydney has given the requisite notice by proclamation that, in connection with a proposed widening of William-street, it is intended to resume about 371 x 30 feet of the Trustees' property along the North alignment. Steps are being taken to watch the Trustees' interests in this connection.

8. ARRANGEMENT OF SPECIMENS AND EXHIBITION CASES.

In the Report for 1914-15 the continued re-labelling of the Australian Marsupials and introduction of group labels was reported; this has steadily continued. A separate floor case was constructed for a group of the Common Phalanger, or so-called "Opossum," to illustrate the various phases of colouration and pelting.

Depletion of funds is not conducive to progress in suitably encasing the remaining larger specimens throughout the Museum. Notwithstanding this, by exercising extreme economy in other directions, a fine case for the reception of three small Whales, to be placed in the Lower Main Hall, is well advanced, and will be completed within the present financial year.

Another series of considerable interest is that of the three Crocodiles in the principal Upper Gallery; these have been enclosed in a suitable case.

In the Australian room, for the first time, an attempt has been made to exhibit in a suitable case small representatives of the Aboriginal Petroglyphs so freely scattered over the Hawkesbury Sandstone Scarps and table-tops of the Port Jackson district.

Through the liberality of Mr. T. Dick, of Port Macquarie, three White Mangrove Boies are exhibited, illustrating the method of wedging off sapwood and bark for shield making. These were supplemented by the trunk of a Eucalypt with no less than sixteen such scars obtained by Mr. C. Hedley at Narooma, and are placed together in a case made specially for the reception of them. Both mountings, the petroglyphs and shield trees, are supplemented by explanatory labels and photographs.

In the Educational Group Series, two groups were added—"The Warrigal, or Dingo," and remains of the "Cave Thylacine and Sarcophile."

The introduction of drawings and photographic illustrations referred to in the last Report has steadily progressed throughout the entire Museum.

The determination of the Roman Coins is now complete, and these will shortly be added to the general collection of coins.

The Cabinet specimens, i.e., those that cannot be displayed either from want of exhibition space, or as unsuitable for exposure, are still in thoroughly good order, and both the arrangement and care bestowed reflect the greatest credit on the respective officers in charge.

The collection of specimens in spirit (or other preservative) is now in excellent order, and the Card Catalogue has made satisfactory progress.

9. COMMONWEALTH FISHERIES.

The Trustees still continue to superintend the Scientific Investigation of the collections of the late F.I.S. "Endeavour." During the past year the following part (Vol iv, Part 1) of the "Results" was issued:—

"Report on the Sea-lilies, Starfishes, Brittle Stars, and Sea Urchins obtained by the F.I.S. 'Endeavour,' on the coasts of Queensland, New South Wales, Tasmania, Victoria, South Australia, and Western Australia," by Herbert Lyman Clark.

The subjects in process of elaboration are as below stated. With the concurrence of the Minister for Trade and Customs these groups were allotted to the investigators named against each:—

Hirudinea : Mr. C. Badham, B.Sc.

Isopoda : Dr. Chas. Chilton.

Amphipoda : Dr. Chas. Chilton.

Alecyonaria : Mr. E. A. Briggs, B.Sc.

Madreporaria : Dr. T. Wayland Vaughan.

Holothuria : Dr. J. Pearson.

Cephalopoda : Professor S. Stillman Berry.

Decapoda : Miss Mary Rathbun.

10. PUBLICATIONS.

The publications issued by the Trustees during the year were:—

Records of the Australian Museum, Vol. X, Part 11, Title Page, Contents, and Index.

Records of the Australian Museum, Vol. XI—

Part 1, "Sub-fossil Crustaceans from the Coasts of Australia," by R. Etheridge, Junr., and Allan R. McCulloch.

Part 2, "A Description of some Tasmanian Skulls," by W. Ramsay Smith.

Occasional Note, "Antiquity of Man in Australia," by R. Etheridge, Junr.

A List of the publications of the Australian Museum to date is as follows:—

I.—Annual Reports.

Nos. 1-61. 1853-1916.

II.—Catalogues.

1. Catalogue of the Specimens of Natural History and Miscellaneous Curiosities in the Australian Museum, by G. Bennett. 1837.
2. Catalogue of Mammalia in the Australian Museum, by G. Krefft. 1864.
3. Catalogue of the Minerals and Rocks in the Collection of the Australian Museum, by G. Krefft. 1873.
4. Catalogue of the Australian Birds in the Australian Museum, by E. P. Ramsay. Part I, Accipitres, 1876. Part II, Striges, 1891. (Second edition, revised by A. J. North, 1898.) Part III, Psittaci, 1891. Part IV, Halcyones, 1894.
5. Catalogue of the Australian Stalk and Sessile-eyed Crustacea, by W. A. Haswell. 1882.
6. Catalogue of the Library of the Australian Museum, 1883. With two supplements.
7. Catalogue of a Collection of Fossils in the Australian Museum. With Introductory Notes by F. Ratte. 1883.
8. Catalogue of the Australian Hydroid Zoophytes, by W. M. Bale. 1884.
9. Descriptive Catalogue of the General Collection of Minerals in the Australian Museum, by F. Ratte. 1885.
10. Catalogue of Echinodermata in the Australian Museum, by E. P. Ramsay. Part I, Echini, 1885. Second edition, 1890.
11. Descriptive Catalogue of the Medusæ of the Australian Seas. Part I, Scyphomedusæ. Part II, Hydromedusæ. By R. von Lendenfeld. 1887.
12. Descriptive Catalogue of the Nests and Eggs of Birds found breeding in Australia and Tasmania, by A. J. North. 1889.
13. Descriptive Catalogue of the Sponges of the Australian Museum, by R. von Lendenfeld. 1888.
14. Catalogue of the Fishes in the Australian Museum. Part I, Palæiethyan Fishes. By J. Douglas Ogilby. 1888.
15. Catalogue of the Marine Shells of Australia and Tasmania, by J. Brazier. Part I, Cephalopoda, 1892. Part II, Pteropoda, 1892. Part III, Gasteropoda (Murex), 1893.
16. Catalogue of Australian Mammals, with Introductory Notes on General Mammalogy, by J. Douglas Ogilby. 1892.
17. Descriptive Catalogue of the Tunicata in the Australian Museum, by W. A. Herdman. 1899.

III.—*Special Catalogues.*

1. Nests and Eggs of Birds found Breeding in Australia and Tasmania, by A. J. North. Vol. I, 1901-1904. Vol. II, 1906-1909. Vol. III, 1910-1912. Vol. IV, 1913-1915.

IV.—*Monographs.*

1. "Australian Lepidoptera and their Transformations," by the late A. W. Scott, with Illustrations by his daughters, Mrs. Morgan and Mrs. Ford. Edited and revised by Mrs. Forde and A. S. Olliff. Vol. II.

V.—*Memoirs.*

1. History and Description of the Skeleton of a new Sperm Whale in the Australian Museum, by W. S. Wall. 1851.
2. Lord Howe Island: Its Zoology and Physical Characters. 1889.
3. The Atoll of Funafuti, Ellice Group: Its Zoology, Botany, and General Structure, based on Collections made by Mr. C. Hedley. 1896-1900.
4. Scientific Results of the Trawling Expedition of H.M.C.S. "Thetis," off the Coast of New South Wales, in February and March, 1898. 1899-1914.

VI.—*Records.*

The Records contain descriptions of specimens, accounts of expeditions, and other results of the scientific work of the Museum Staff.

Vol. I.—1890-91. Vol. II.—1892-1896. Vol. III.—1897-1900. Vol. IV.—1901-1903. Vol. V.—1903-1905. Vol. VI.—1905-1903. Vol. VII.—1908-1910. Vol. VIII.—1910-1913. Vol. IX.—1912-1913. Vol. X.—1913-1915. Vol. XI.—Parts 1 and 2—1916.

VII.—*Guides.*

1. Guide to the Australian Fossil Remains in the Australian Museum. 1870.
2. Guide to the Contents of the Australian Museum. 1883.
3. Guide to the Contents of the Australian Museum. 1890.
4. Elementary Guide to the Exhibited Zoological Collections. 1914.

VIII.—*Miscellaneous Publications.*

1. List of the Old Documents and Relics in the Australian Museum, 1884. Reprinted with additions. 1890.
2. Descriptive List of Aboriginal Weapons, Implements, &c., from the Darling and Lachlan Rivers, by K. H. Bennett. 1887.
3. Notes for Collectors. 1887.
4. Hints for the Collectors of Geological and Mineralogical Specimens, by F. Ratte.
5. Hints for the Preservation of Specimens of Natural History, by E. P. Ramsay. 1891. 4th Edition.
6. List of Duplicate Books and Pamphlets, available for exchange in the Library of the Australian Museum. Prepared by S. Sinclair, Secretary and Librarian, 1900.
7. Report of a Visit to Certain European Museums in 1911, by Chas. Anderson. 1912. (For private circulation only.)
8. Report on Museum Administration in the United States, by Chas. Hedley. 1913. (For private circulation only.)
9. Rules to be observed in Writing Papers for the "Records" and "Memoirs." Revised edition. 1913. (For use of the Staff of the Museum.)
10. List of Publications prepared and arranged by S. Sinclair, Secretary and Librarian. 1916.

11. LIBRARY.

The additions during the year, not counting unbound periodicals and pamphlets were 624 volumes, a list of which will be found at the end of this Report as Appendix II.

12. APPENDICES.

The following appendices are attached, viz.:—

1. Statement of Receipts and Expenditure.
2. Catalogue of Additions to the Library.

The Common Seal of the Museum was hereunto affixed by order of the Board, this 1st day of September, 1916.

S. SINCLAIR,
Secretary.

H. H. B. BRADLEY,
President.

[illegible]

A. C. K. MACKENZIE,

Inspector of Public Accounts.

Reg. No.	Books.	How acquired.	Reg. No.	Books.	How acquired.
PART I.—AUTHORS.			18245	DANA, James Dwight. Dana Commemorative Lectures. Problems of American Geology. A series of Lectures dealing with some of the Problems of the Canadian Shield and of the Cordilleras, delivered at Yale University on the Silliman Foundation in December, 1913.	
18132	BOULENGER, G. A. and C. L. Animal Life by the Sea Shore.	1 vol. Svo. London, n.d. Presented by C. Hedley			
18015	BURROW, E. I. Elements of Conchology, according to the Linnæan System. Second Edition.	1 vol. Svo. London, 1818. Presented by C. Hedley	18019	DESHAYES, G. P. Traité élémentaire de Conchyliologie, avec les applications de cette Science à la Géologie. Atlas. (Imperfect.)	1 vol. Svo. New Haven, 1915. Presented by C. Hedley
18047	CAILLIAUD, Frédéric. Mémoire sur les Mollusques perforants. (<i>Ouvrage couronné par la Société Hollandaise des Sciences à Harlem.</i>)	1 vol. Svo. Harlem, 1856. Presented by C. Hedley	18133	ELMHIRST, Richard. The Naturalist at the Sea Shore.	1 vol. Svo. London, 1913. Presented by C. Hedley
18293 18294	CHEESEMAN, T. F. (Editor). Illustrations of the New Zealand Flora. Edited by T. F. Cheeseman, with the assistance of W. B. Hemsley. Plates drawn by Miss Matilda Smith. Vols. I-II. (Published under the Authority of the Government of New Zealand.)	2 vols. 4to. Wellington, 1914. Presented	18384	FITZSIMONS, F. W. The House Fly, a Slayer of Men.	1 vol. Svo. London, 1915. Presented
			18094	FRAZER, J. G. The Golden Bough, a Study in Magic and Religion. Third edition, revised and enlarged. Vol. XII, bibliography and general index.	1 vol. Svo. London, 1915. Purchased

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18050	GRAEBNER, F. Dissemination and Development of Social Systems in Australia. (Mss. translation from Globus, Vol. xc, 1906.)	Purchased
18035	GUTHRIE-SMITH, H. Mutton Birds and other Birds. 1 vol. 8vo. Christchurch, &c., 1914.	Purchased
18018	HANLEY, Sylvanus. The Conchological Miscellany of . . . illustrative of Pandora, Amphidesma, Ostrea, Melo, The Melaniadæ, Ampullaria and Cyclostoma. (Coloured plate edition.) 1 vol. 4to. London, 1854-1858.	Presented by C. Hedley
18024	HARRIMAN ALASKA EXPEDITION. With co-operation of Washington Academy of Sciences. Alaska, Vol. xiii. Land and Fresh Water Mollusks, by William H. Dall. 1 vol. 8vo. New York, 1935.	Presented by C. Hedley
18048	HIRASE, Y. Illustrations of a Thousand Shells, Part I. 1914.	
18095	Do do part 2. 1915. 2 vols. 8vo. Kyoto, 1914-15.	Presented by C. Hedley
18246	IDDINGS, Joseph P. The Problem of Volcanism. (Yale University. Mrs. Hepsa Ely Silliman Memorial Lectures.) 1 vol. 8vo. New Haven, 1914.	Presented
18017	ISSEL, Arturo. Molluschi Borneensi. Illustrazione delle specie Terrestri e d'Acqua Dolce raccolte nell' Isola di Borneo, dai Signori G. Doria e O. Beccari. Memoria di Arturo Issel. (Ann. del Mus. Civ. St. Nat. Genova, vi. 1874.) 1 vol. 8vo. Genova, 1874.	Presented by C. Hedley
18017	LIÉNHARD, Élizé. Catalogue de la Faune Malacologique de l'Ile Maurice et de ses dépendances comprenant les Iles Seychelles, le Groupe de Chagos composé de Diego-Garcia, Six-Ilex, Peros-Banhos, Salomon, &c., l'Ile de Cargados ou Saint-Brandon. 1 vol. 8vo. Paris, 1877.	Presented by C. Hedley
18081	MAIDEN, J. H. A Critical Revision of the Genus Eucalyptus. Vol. II. Parts 11-20. 1 vol. 4to. Sydney, 1914.	Presented
18074	MAIDEN, J. H. The Forest Flora of New South Wales. Vol. V. Parts 41-50. 1 vol. 4to. Sydney, 1913.	Presented
18032 18033	MAWSON, Douglas. The Home of the Blizzard, being the story of the Australasian Antarctic Expedition, 1911-1914. Vols. I-II. 2 vols. 8vo. London, 1915.	Purchased
18339	NEWBIGIN, Marion. Life by the Seashore. An Introduction to Natural History. 1 vol. 8vo. London, 1907.	Presented by C. Hedley
18194	OLDMAN, W. O. Illustrated Catalogues of Ethnographical Specimens. Vols. VII-X, Nos. 80-126. 1 vol. 8vo. London, 1910-1914.	Purchased
18017	PAETEL, Fr. Catalog der Conchylien-Sammlung. Nebst Uebersicht des angewandten Systems. 1 vol. 8vo. Berlin, 1873.	Presented by C. Hedley
18097	ROOIJ, Nelly de. The Reptiles of the Indo-Australian Archipelago I. Lacertilia, Chelonina, Emydosauria. 1 vol. 8vo. Leiden, 1915.	Presented
18514	SCOTTISH NATIONAL ANTARCTIC EXPEDITION. Report on the Scientific Results of the voyage of S.Y. "Scotia," during the years 1902, 1903, and 1904, under the leadership of William S. Bruce. Volume iv.—Zoology. Parts ii-xx.—Vertebrates, by David Hepburn, Robert B. Thomson, D. Waterston, A. Campbell Geddes, W. A. Herdman, R. S. Clark, Harold Axel Haig, William S. Bruce, Rudmose Brown, W. Eagle Clarke, L. N. G. Ramsey, C. Tate Regan, S. F. Harmer, W. T. Ridewood, and Theodore E. Salvesen. 1 vol. 4to. Edinburgh, 1915.	Purchased
18332	SPEISER, Felix. Two years with the Natives in the Western Pacific. 1 vol. 8vo. London, 1913.	Purchased
18039 18040 18041 18042	WEBER, Max. Zoologische Ergebnisse einer Reise in niederländisch Ost-Indien. Herausgegeben von Dr. Max Weber. Bd. i. 1890-1891. Bd. ii. 1891-1892. Bd. iii. 1893-1894. Bd. iv. 1897-1907. 4 vols. 4to. Leiden, 1890-1907.	Purchased
18016	WOOD, W. Supplement to the Index Testaceologicus; or A Catalogue of Shells, British and Foreign. 1 vol. 8vo. London, 1828.	Presented by C. Hedley
18014	WOODWARD, B. B. The Life of the Mollusca. 1 vol. 8vo. London, 1913.	Purchased
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18054	Eleventh Annual Issue. D. Chemistry, 1914.	
18369	Twelfth Annual Issue. D. Chemistry, 1915.	
18370	" " " J. Geography, 1915.	
18055	" " " K. Palaeontology, 1914.	
18034	" " " L. General Biology, 1914.	
18062	Thirteenth " " N. Zoology, 1914. 6 vols. 8vo. London, 1914-1915.	Purchased
COMMONWEALTH OF AUSTRALIA.		
18027	COMMONWEALTH OF AUSTRALIA. Historical Records of Australia. Series i. Governors' Despatches to and from England. Vol. ii, 1797-1800. Vol. iii, 1801-1802. Vol. iv, 1803—June, 1804. 3 vols. 8vo. Sydney, 1914-1915.	Presented
18336 18375	Vol. iii, 1801-1802. Vol. iv, 1803—June, 1804. 3 vols. 8vo. Sydney, 1914-1915.	Presented
18617	COMMONWEALTH BUREAU OF CENSUS AND STATISTICS. Official Year Book of the Commonwealth of Australia, containing authoritative Statistics for the period 1901-1904 and corrected Statistics for the period 1788 to 1900. No. 8—1915. 1 vol. 8vo. Melbourne, 1915.	Presented
18087	ROYAL ANTHROPOLOGICAL SOCIETY OF AUSTRALASIA. Science of Man. Vol. XIII, Nos. i-xi. Vol. XIV, Nos. i-ii. 1 vol. 4to. Sydney, 1911-1912.	Presented
18129	ROYAL AUSTRALASIAN ORNITHOLOGISTS' UNION. The Emu, vols. xi-xii, 1911-1913.	
18128	The Emu, vols. xiii-xiv, 1913-1915. 2 vols. 8vo. Melbourne, 1911-1915.	Purchased
NEW SOUTH WALES.		
18071	AGRICULTURE, DEPARTMENT OF. Agricultural Gazette of New South Wales. Vol. XXIII. 1912. —Vol. xxiv. 1913. —Vol. xxv. 1914. 3 vols. 8vo. Sydney, 1913-1915.	Presented
18072 18073	—The Agricultural Gazette of New South Wales. Author and Subject Index. Vols. i-xxiv (1890-1913). 1 vol. 8vo. Sydney, 1914.	Presented
18102	—Reports of the Department of Agriculture for the years 1905-1914. 1 vol. fol. Sydney, 1905-1914.	Presented
18013	AUSTRALIAN MUSEUM. Special Catalogue, No. 1. Nests and Eggs of Birds found breeding in Australia and Tasmania. By Alfred J. North. (Second edition of Catalogue No. XII, entirely re-written, with additions.) Vol. iv. 1 vol. 4to. Sydney, 1913-1914.	
18376	—Special Catalogue, No. 1. Nests and Eggs of Birds found breeding in Australia and Tasmania. By Alfred J. North. (Second edition of Catalogue No. XII, entirely re-written, with additions.) Original coloured plates, with Author's note. 1 vol. 4to. Sydney, 1915. (Title-page and author's note printed at the Australian Museum, Sydney, New South Wales, August, 1915.)	

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18076	GEOLOGICAL SURVEY. Mineral Resources, No. 15. The Tungsten-Mining Industry in New South Wales. By J. E. Carne. 1 vol. 8vo. Sydney, 1912.	Presented	18109	SOUTH AUSTRALIA. AGRICULTURE, DEPARTMENT OF. Journal. Vol. xiv. 1910-11.	
18077	—Mineral Resources, No. 16. The Antimony-Mining Industry and the Distribution of Antimony Ores in New South Wales. By J. E. Carne.		18110	—Journal. Vol. xv. 1911-12.	
18078	—Mineral Resources, No. 17. Report on the Cobalt Copper and Gold Field. Part 1. By E. C. Andrews.		18111	— " Vol. xvi. 1912-13.	
18079	—Mineral Resources, No. 17. Maps. 3 vols. 8vo. Sydney, 1913.	Presented	18104	ROYAL SOCIETY OF SOUTH AUSTRALIA. Transactions and Proceedings. Vols. xxxvi-xxxvii.	Presented
18080	GEOLOGICAL SURVEY. Records of the Geological Survey of New South Wales. Vol. viii. 1905-1909.		18103	SCHOOL OF MINES AND INDUSTRIES AND TECHNOLOGICAL MUSEUM. Annual Reports for 1909, 1911-12.	Presented
18075	—The Coal Resources of New South Wales. By Edward F. Pittman. 1 vol. 8vo. Sydney, 1912.	Presented	18135	SURVEYOR-GENERAL. Report, 1905-06.	
18090	GOVERNMENT STATISTICIAN. The Official Year Book of New South Wales. 1911.		18136	" " 1906-07.	
18091	" " 1912.		18137	" " 1907-08.	
18092	" " 1913.		18043	UNIVERSITY OF ADELAIDE. Calendar for the year 1915.	Presented
18082	LINNEAN SOCIETY OF NEW SOUTH WALES. Proceedings for the year 1912. Vol. xxxvii.			1 vol. 8vo. Adelaide, 1915.	Presented
18083	" " 1913. Vol. xxxviii.			QUEENSLAND.	
18084	" " 1914. Vol. xxxix.		18116	AGRICULTURE AND STOCK, DEPARTMENT OF. Annual Reports, 1904-05-1910-11.	
18085	MINES DEPARTMENT, NEW SOUTH WALES. Annual Reports for the years 1909-1912.	Presented	18117	AGRICULTURE, DEPARTMENT OF. The Queensland Agricultural Journal. Vol. xxix. 1912.	Presented
18086	PUBLIC INSTRUCTION, DEPARTMENT OF. Public Instruction Gazette. Vols. vi-vii, 1912-1913.		18118	—Vols. xxx-xxxi. 1913.	
18093	—Technical Education Branch. The Technical Gazette of New South Wales. Vols. i-iv.		18119	—New Series. Vols. i-ii. 1914.	
18088	ROYAL SOCIETY OF NEW SOUTH WALES. Journal and Proceedings for 1911. Vol. xlv.		18626	—Vol. iii. 1915.	
18089	—Journal and Proceedings for 1912-13. Vols. xlvi-xlvi.		18138	MINES, UNDER-SECRETARY FOR. Annual Report, 1911.	Presented
18096	TECHNOLOGICAL MUSEUM. Technical Education Series, No. 20. Building and Ornamental Stones of Australia. By R. T. Baker.	Presented	18139	" 1912.	
18202	UNIVERSITY OF SYDNEY. Calendar for the year 1915.	Presented	18140	" 1913.	
	1 vol. 8vo. Sydney, 1915.	Presented	18120	QUEENSLAND MUSEUM. Annals. Nos. 6-10.	Presented
	VICTORIA.		18121	—Memoirs, Vols. i-iii.	
18256	AGRICULTURE, DEPARTMENT OF. The Journal of the Department of Agriculture of Victoria. Vol. x. 1912.		18115	ROYAL SOCIETY OF QUEENSLAND. Proceedings. Vols. xix-xxiii, 1905-12.	Presented
18257	—Vol. xi. 1913.		16609	1 vol. 8vo. Brisbane, 1905-12.	Presented
18258	—Vol. xii. 1914.			Includes:—On some new Fishes from the Queensland Coast: "Endeavour Series, No. 1," by J. Douglas Ogilby, published in Vol. xxiii, but subsequently withdrawn.	
18122	FIELD NATURALISTS' CLUB. The Victorian Naturalist. Vols. xxviii-xxix, 1911-13.			WEST AUSTRALIA.	
18123	—Vols. xxx-xxxi. 1913-15.		18255	MINES, DEPARTMENT OF. Reports, 1910-12.	
18127	GEOLOGICAL SURVEY OF VICTORIA. Bulletins Nos. 23-29.	Presented		1 vol. fol. Perth, 1911-13.	Presented
18038	MELBOURNE UNIVERSITY. The Melbourne University Calendar, 1915.			TASMANIA.	
18202	MINES, SECRETARY FOR. Reports for the years 1909-11.		18107	AGRICULTURAL DEPARTMENT OF TASMANIA. The Agricultural Gazette of Tasmania. Vols. xix-xx.	Presented
18105	ROYAL SOCIETY OF VICTORIA. Proceedings. Vol. xxiv. 1911.		18108	—The Agricultural Gazette of Tasmania. Vols. xxi-xxii.	Presented
18106	—Vol. xxv-xxvi. 1912-13.		18112	GEOLOGICAL SURVEY OF TASMANIA. Bulletins. Nos. 11-14. 1911-1913.	Presented
	2 vols. 8vo. Melbourne, 1911-13.	Presented	18113	MINES, SECRETARY FOR. Reports for the years 1907-1910.	Presented
			18114	ROYAL SOCIETY OF TASMANIA. Papers and Proceedings, 1911-14.	Presented
			18010	UNIVERSITY OF TASMANIA. Calendar of the University of Tasmania, 1914-1915.	Presented
				1 vol. 8vo. Hobart, 1914.	Presented
				NEW ZEALAND.	
			18037	GOVERNMENT STATISTICIAN. The New Zealand Official Year-Book, 1914. (Twenty-third Year of Issue.)	
				1 vol. 8vo. Wellington, 1914.	Presented
			18382	NEW ZEALAND INSTITUTE. Transactions and Proceedings for the years 1913-1914. Vols. xlvi-xlvi (new issue).	
				1 vol. 8vo. Wellington, 1914-1915.	Presented

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18141	NEW ZEALAND. Papers and Reports relating to Minerals and Mining, comprising Statement by the Minister of Mines; Report on the Goldfields; Report on Coal-mines, State Coal-mines. 1 vol. fol. Wellington, 1912.	Presented	18195	GEOLOGISTS' ASSOCIATION. Proceedings. Vol. xxii. 1911. Do xxiii. 1912. Do xxiv. 1913. Do xxv. 1914. 4 vols. 8vo. London, 1911-1914.	Presented
18142	NEW ZEALAND. Mines Statement for the Year 1912. 1 vol. fol. Wellington, 1913.	Presented	18199	LINNEAN SOCIETY OF LONDON. Proceedings, Sessions 121-126, 1908-1914. 1 vol. 8vo. London, 1909-1914.	Presented
18620	—Mines Statement for the Year 1914. 1 vol. fol. Wellington, 1915.	Presented	18200	—Transactions, 2nd Series, Vol. xiv, Zoology. The Percy Sladen Trust Expedition to the Indian Ocean in 1905, under the leadership of Mr. J. Stanley Gardiner, M.A. Vol. iii. 1 vol. 4to. London, 1910-1912.	Presented
	UNITED KINGDOM. <i>London.</i>		18201	—Transactions, 2nd Series, Vol. xv, Zoology. Do do Vol. iv. 1 vol. 4to. London, 1912-13.	Presented
18213	AGRICULTURE, BOARD OF. Journal. Vol. xix. 1912-13.		18182	MICROSCOPICAL SCIENCE, Quarterly Journal of. New Series, Vol. LVIII. 1913.	
18214	—Journal. Vol. xx. 1913-14,		18183	Do LIX. 1914.	
18215	— " xxi. 1914-15. 3 vols. 8vo. London, 1912-15.	Presented	18184	Do LX. 1915.	
18207	ANNALS AND MAGAZINE OF NATURAL HISTORY, including Zoology, Botany, and Geology. 8th Series. Vol. ix. 1912.		18188	NATURE. Vol. LXXXIX. 1912.	
18208	—Vol. x. 1912.		18189	Do xc. 1912-13.	
18209	—Vol. xi. 1913.		18190	Do xci. 1913.	
18210	—Vol. xii. 1913.		18191	Do xcii. 1913-14.	
18211	—Vol. xiii. 1914.		18192	Do xciii. 1914.	
18212	—Vol. xiv. 1914. 6 vols. 8vo. London, 1912-1914.	Purchased	18193	Do xciv. 1914-15.	
18244	BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE. Report of the eighty-fourth meeting. Australia: July 28-August 31, 1914. 1 vol. 8vo. London, 1915.	Presented	18627	Do xcv. 1915. 7 vols. 4to. London, 1912-15.	Purchased
18371	—Australian Meeting, 1914. Handbook of South Australia. Published by authority of the Government in connection with the visit of . . . 1 vol. 8vo. Adelaide, 1914.	Presented	18049	RAY SOCIETY. Volume issued to the subscribers for the year 1914. A Monograph of the British Marine Annelids. Vol. III, Part I. Text, Polychæta, Opheliidæ to Ammocharodæ. By Wm. Carmichael McIntosh. 1 vol. fol. London, 1915.	Purchased
18373	—Australian Meeting, 1914. Tasmanian Handbook. 1 vol. 8vo. Hobart, 1914.	Presented	18185	ROYAL COLONIAL INSTITUTE. United Empire, New Series, Vol. III. 1912.	
18372	—Handbook and Guide to Western Australia. Prepared for the Members of the Advance Party of the . . . on the occasion of their visit to Perth and the South-western portion of the State, under the direction of the Local Publications Committee. 1 vol. 8vo. Perth, 1914.	Presented	18186	Do do iv. 1913.	
18340	BRITISH MUSEUM (Natural History). Catalogue of the Ungulate Mammals in the British Museum (Natural History) Vol. III. Artiodactyla, Families Bovidæ, Subfamilies Apocrotinæ to Tragelaphinæ (Pala, Saiga, Gazelles, Oryx Group, Bushbucks, Kudus, Elands, &c.). Antilocapridæ (Prongbucks), and Giraffidæ (Giraffes and Okapi). By R. Lydekker, assisted by Gilbert Blaine. 1 vol. 8vo. London, 1914.	Presented	18187	Do do v. 1914. 3 vols. 8vo. London, 1912-14.	Presented
18023	—Guide to the exhibited series of Insects in the Department of Zoology . . . (Second edition). 1 vol. 8vo. London, 1909.	Presented	18176	ROYAL GEOGRAPHICAL SOCIETY. The Geographical Journal, Vol. XXXIX. 1912.	
18341	—Guide to the galleries of Mammals in the Department of Zoology. (Ninth Edition.) 1 vol. 8vo. London, 1914.	Presented	18177	Do do XL. 1912.	
18203	—Returns, 1910-1914. 1 vol. 8vo. London, 1910-1914.	Presented	18178	Do do XLI. 1913.	
18031	EGYPT EXPLORATION FUND. The Cemeteries of Abydos. Part I.—1909-1910. The mixed Cemetery and Umm El-Ga'Ab, with chapters by T. Eric Peet, H. R. Hall, and Kathleen Haddon. (Thirty-third Memoir of the Egypt Exploration Fund.) 1 vol. 4to. London, 1914.	Purchased	18179	Do do XLII. 1913.	
18172	GEOLOGICAL MAGAZINE. New Series, decade V, Vol. VII. 1910.		18180	Do do XLIII. 1914.	
18173	Do V, IX. 1912.		18181	Do do XLIV. 1914. 6 vols. 8vo. London, 1912-14.	Presented
18174	Do V, X. 1913.		18169	ROYAL MICROSCOPICAL SOCIETY. Journal for the Year 1912.	
18175	Do VI, I. 1914. 4 vols. 8vo. London, 1910, 1912-14.	Purchased	18170	Do do 1913.	
18204	GEOLOGICAL SOCIETY OF LONDON. Quarterly Journal. Vol. LXVIII. 1912.		18171	Do do 1914. 3 vols. 8vo. London, 1912-14.	Purchased
18205	Do do LXIX. 1913.		18157	ROYAL SOCIETY OF LONDON. Proceedings, Series A. Vol. LXXXVI. 1912.	
18206	Do do LXX. 1914. 3 vols. 8vo. London, 1912-14.	Purchased	18158	Do do LXXXVII. 1912.	
			18159	Do do LXXXVIII. 1913.	
			18160	Do do LXXXIX. 1914.	
			18161	Do do xc. 1914.	
			18628	Do do xci. 1914-1915. 6 vols. 8vo. London, 1912-15.	Presented
			18154	—Proceedings, Series B. Vol. LXXXV. 1912.	
			18155	Do do LXXXVI. 1913.	
			18156	Do do LXXXVII. 1914. 3 vols. 8vo. London, 1912-14.	Presented
			18070	—Year Book of. 1 vol. 8vo. London, 1915.	Presented
			18036	YEAR-BOOK. The Year-Book of the Scientific and Learned Societies of Great Britain and Ireland: a record of the work done in Science, Literature and Art, during the Session 1913-1914. Thirty-first Annual Issue. 1 vol. 8vo. London, 1914.	Purchased
			18168	ZOOLOGICAL SOCIETY OF LONDON. Proceedings of the Scientific Meetings. Index, 1901-10.	
			18162	—Proceedings, 1912, pp. 1-504.	
			18163	— " " pp. 505-913.	
			18164	—Proceedings, 1913, pp. 1-337.	
			18165	— " " pp. 339-1104.	
			18166	—Proceedings, 1914, pp. 1-490.	
			18167	— " " pp. 491-1077. 7 vols. 8vo. London, 1912-14.	Presented

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18151	ZOOLOGIST, The. A Monthly Journal of Natural History. Edited by W. L. Distant. Fourth Series. Vol. xvi. 1912.		18269	ZOOLOGICAL MUSEUM, TRING. Novitates Zoologicae. A Journal of Zoology. Vol. xix. 1912.	
18152	" " Vol. xvii. 1913.		18270	" " Vol. xx. 1913.	
18153	" " Vol. xviii. 1914.		18271	" " Vol. xxi. 1914.	
	3 vols. 8vo. London, 1912-14.	Purchased		3 vols. 4to. Tring, 1912-1914.	Presented
	ENGLAND.			SCOTLAND.	
18267	CAMBRIDGE PHILOSOPHICAL SOCIETY. Proceedings. Vol. xvi. 1 vol. 8vo. Cambridge, 1911-12.	Presented	18234	FISHERY BOARD FOR SCOTLAND. 27th and 28th Annual Reports, 1908-09. Pt. III. Scientific Investigations. 29th and 30th Annual Reports, 1910-11. 1 vol. 8vo. Glasgow, 1910-12.	Presented
18268	LANCASHIRE SEA-FISHERIES LABORATORY. Reports Nos. 19-21, 1910-1912. 1 vol. 8vo. Liverpool, 1911-13.	Presented	18011	GLASGOW UNIVERSITY. The Glasgow University Calendar for the year 1914-1915. 1 vol. 8vo. Glasgow, 1914.	Presented
18134	LEICESTER MUSEUM AND ART GALLERY. 16th Report, 1st April, 1905-31st March, 1908. 1 vol. 8vo. Leicester, 1908.	Presented	18618	" " 1 vol. 8vo. Glasgow, 1915.	Presented
18028	LIVERPOOL BIOLOGICAL SOCIETY. Proceedings and Transactions. Vol. xxviii. Session 1913-1914. 1 vol. 8vo. Liverpool, 1914.	Presented	18238	NATURAL HISTORY SOCIETY OF GLASGOW. Transactions (including the Proceedings of the Society). Vol. viii. New Series, 1905-1908. 1 vol. 8vo. Glasgow, 1911.	Presented
18261	LIVERPOOL GEOLOGICAL SOCIETY. Proceedings. Vols. x-xi. 1 vol. 8vo. Liverpool, 1909-1914.	Presented	18239	—The Glasgow Naturalist. Vols. i-iv, 1909-1912. 1 vol. 8vo. Glasgow, 1909-1912.	Presented
18143	LIVERPOOL MARINE BIOLOGY COMMITTEE. 21st Annual Report of the Marine Biological Station at Port Erin. 18144 —22nd " " " " 18145 —23rd " " " " 18146 —24th " " " " 18147 —25th " " " " 18148 —26th " " " " 18149 —27th " " " " 18150 —28th " " " " 8 vols. 8vo. Liverpool, 1907-1914.	Presented	18237	ROYAL PHILOSOPHICAL SOCIETY. Proceedings. Vols. xli-xliii. 1909-1912. 1 vol. 8vo. Glasgow, 1910-1912.	Presented
18029	LORD DERBY NATURAL HISTORY MUSEUM, LIVERPOOL. Handbook and Guide to the British Birds on exhibition in the Lord Derby Natural History Museum, Liverpool. 1 vol. 8vo. Liverpool, 1914.	Presented	18233	ROYAL PHYSICAL SOCIETY OF EDINBURGH. Proceedings. Vol. xvii. 1906-1909. 1 vol. 8vo. Edinburgh, 1909.	Presented
18266	MANCHESTER LITERARY AND PHILOSOPHICAL SOCIETY. Memoirs and Proceedings. Vols. lvi-lvii, 1911-12-1912-13. 1 vol. 8vo. Manchester, 1912-13.	Presented	18230	ROYAL SCOTTISH GEOGRAPHICAL SOCIETY. Scottish Geographical Magazine. Vol. xxviii. 1912. 18231 — " " Vol. xxix. 1913 18232 — " " Vol. xxx. 1914. 3 vols. 8vo. Edinburgh, 1912-1914.	Presented
18272	MANCHESTER MICROSCOPICAL SOCIETY. Annual Report and Transactions, 1906-1912. 1 vol. 8vo. Manchester, 1906-1913.	Presented	18240	ROYAL SOCIETY OF EDINBURGH. Proceedings. Vol. xxii. 1911-12. 18241 " " Vols. xxiii-xxiv. 1912-14. 2 vols. 8vo. Edinburgh, 1913-1914.	Presented
18273	MARINE BIOLOGICAL ASSOCIATION OF THE UNITED KINGDOM. Journal. Vol. ix (N.S.), 1910-1913. 1 vol. 8vo. Plymouth, 1910-1913.	Presented		IRELAND.	
18259	MUSEUMS ASSOCIATION. The Museums Journal, Vol. 12. July, 1912, to June, 1913. 18260 " Vol. 13. July, 1913, to June, 1914. 2 vols. 8vo. London, 1913-1914.	Purchased	18235	DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND. FISHERIES BRANCH. Scientific Investigations, 1906. No. I. On the Distribution of the Thaliacea and Pyrosoma in Irish Waters. By G. P. Farran. No. II. Second Report on the Cepopoda of the Irish Atlantic Slope. By G. P. Farran. No. III. Preliminary Report on the Simple Ascidians of the Larne District. By H. J. Buchanan-Wollaston. No. IV. The Bottom Deposits of Larne Lough. By Geo. C. Gough. No. V. Second Report on the Fishes of the Irish Atlantic Slope. By E. W. L. Holt and L. W. Byrne. No. VI. Index to the Scientific Publications of the Fisheries Branch of the Department of Agriculture and Technical Instruction for Ireland. Compiled by Charles Green. No. VII. Inland Fisheries. (i) Report on the Artificial Propagation of Salmonidae during the season of 1906-1907, by E. W. L. Holt. (ii) Statistical Information relating to the Salmon Fisheries. (iii) Substance of Reports received from Clerks of Conservators relative to Salmon Fisheries. No. VIII. Inland Fisheries. (iv) Summary of Reports relative to Eel Fry, 1905-1907, by E. W. L. Holt. —Scientific Investigations, 1907. No. I. The Cephalopoda Dibranchiata of the Coasts of Ireland, by Anne L. Massy. No. II. The Pteropoda and Heteropoda of the Coasts of Ireland, by Anne L. Massy. No. III. Placae Marking Experiments on the East Coast of Ireland in 1905 and 1906. By G. P. Farran. No. IV. Seasonal Variations in the Quantity of Glycogen present in Samples of Oysters. By J. A. Milroy. No. V. Alcyonarian and Madreporarian Corals of the Irish Coasts, by Jane Stephens, with description of New Species of Stachyodes, by Professor S. J. Hickson. No. VI. Nudibranchiate Mollusca of the Trawling Grounds of the East and South Coasts of Ireland. By G. P. Farran.	
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18099	Publication 14. Geological Series 11. The occurrence of oil and gas in Michigan. By Richard A. Smith. (Published as a part of the Annual Report of the Board of Geological and Biological Survey for 1912.)		18612	Do do II. 1910.	
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