

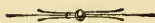
REPORT
OF THE
ROYAL SOCIETY
OF
TASMANIA,
FOR THE YEAR
1876.



TASMANIA :
PRINTED AT THE "MERCURY" STEAM PRESS OFFICE, HOBART TOWN.

1877.

Royal Society of Tasmania,



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Cruttenden, Thomas	Woodsden
Coote, Audley	Sandy Bay
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Dowdell, C.	"
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Fysh, Hon. P. O., M.H.A.	"
Freeman, E. J.	"
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Kermode, W. A.	Mona Vale
Lewis, David, M.H.A.	Hobart Town
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Maclanachan, James	Ballochmyle
Macfarlane, James	Hobart Town
Macfarlane, J.	„
Mather, J. B.	„
Maxwell, C. M.	„
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Meredith, Hon. C., M.H.A.	Hobart Town
Marsh, H. J....	„
Mace, Rev. J. C.	Glenorchy
†Mace, G.	Spring Bay
Morriss, W. V.	Hobart Town
Murphy, Most Rev. D., Bishop of Hobart Town	„
Manley, E. J.	„
Napier, G. R.	„
*Nowell, E. C.	„
Officer, Hon. Sir Robt. M.H.A., Speaker, V.P.	New Norfolk
Pillinger, J.	Antill Ponds
Perkins, H. A., M.D., M.R.C.S., Eng.	Hobart Town
Roberts, H. L.	„
Read, R. Cartwright... ..	{ Redlands, New Norfolk

Rule, J....	Hobart Town
Riddoch, A., M.H.A. ...	New Norfolk
Roblin, T., Curator of Museum...	Hobart Town
Reynolds, W. J. J. ...	"
Richards, Rev. George B., President of Horton College ...	Ross
Salier, G., M.H.A. ...	Hobart Town
Sharland, W. S. ...	New Norfolk
Seal, M....	Hobart Town
Smith, His Honor Sir Francis, Chief Justice	"
†Solomon, Joseph ...	"
*Stephens, T., M.A., F.G.S., Inspector of Schools ...	"
Story, Dr. J. F. ...	Swanport
Storie, Rev. J. ...	Hobart Town
*Scott, J. R., M.L.C. ...	New Town
Salier, F. J. ...	Hobart Town
*Swan, J. ...	New Town
Smith, P. T. ...	
*Shoobridge, W. E. ...	New Norfolk
Shoobridge, E. ...	"
Spicer, Rev. W. W., M.A., F.R.M.S. ...	Hobart Town
Simson, A. ...	Brighton
Scott, Hopton ...	Hobart Town
Swan, E. D. ...	"
Sharp, J. ...	"
*Travers, S. Smith ...	New Town
Walch, James H. B. ...	Hobart Town
Weaver, G. ...	"
Whyte, Hon. James, M.L.C. ...	"
Wilson, George ...	Mount Seymour
Wilson, Hon. Sir J. M., M.L.C., President of Legislative Council ...	Hobart Town
Wise, F. H. ..	"
Webster, A. G. ...	"
Wright, Stephen P. H. ..	Glenorchy
Westbrook, T. ...	Bellerive
Wilson, J. ...	Ashgrove, Oatlands
Westbrook, G. C....	Hobart Town
Young, Russell, M.H.A. ...	"

Obituary.

BEDFORD, EDWARD SAMUEL PICKARD, F.R.C.S., England.

Born in London, 1808 ; died at Sydney, 24th February, 1876.

Mr. Bedford was one of the founders of the Tasmanian Society, the parent of the present Royal Society. He contributed several papers to its Proceedings, and always took the liveliest interest in its progress. All local institutions indeed, having for their scope moral and intellectual progress, found in him a warm and zealous advocate. Having passed the most active period of his life in the practice of his profession in this city, he proceeded in 1863 to Sydney where for some years past, in addition to his private practice, he acted as Medical Adviser to the Government of New South Wales, and was one of the Examiners in Medicine at the Sydney University. He was the first Tasmanian medical student who proceeded to England for professional education.

BROUGHTON, JOSEPH, Solicitor. Born in London, 1824 ; died at New Town, 26th November, 1876.

GRAVES, JOHN WOODCOCK, Barrister. Died at Hobart Town October 30th, 1876 ; æt. 47. Mr. Graves took much interest in the Society. The subject of acclimatisation especially engaging his attention.

IRVINE, PATRICK. Born in Edinburgh. Joined the Civil Service in India, in 1833, from which he retired as a Judge in 1862. Died at New Town, June 14th, 1876 ; æt. 62.

LEWIS, JOHN KENRICK, M.R.C.S., England. Born in Wales, 1819 ; emigrated in 1860, and after a residence of a few years in Victoria was appointed in 1866 as a Medical Officer at Port Arthur. Subsequently practised in Hobart Town, where he died October 26th, 1876 ; æt. 56.

MORRISON, ASKIN. Born in Ireland. For many years a leading merchant in this city, and a Fellow of the Society for upwards of 30 years. Died May 29th, 1876 ; æt. 76.

MINUTES of the ANNUAL GENERAL MEETING of the ROYAL SOCIETY OF TASMANIA, held at the Museum, Macquarie-street, at half-past 7 o'clock p.m., on the 30th January, 1877, the Right Rev. the Lord Bishop of Tasmania in the chair.

The advertisement by which the meeting had been convened having been read, the CHAIRMAN called upon the Secretary to read the Report.

The Report for 1876 was then read.

It was moved by Mr. ALLPORT, and seconded by the Rev. W. W. Spicer and carried :—" That the Report be adopted and printed for circulation amongst the Fellows."

The SECRETARY having reported that the retiring Members of Council were Messrs. F. Abbott, T. Giblin, Justin McC. Browne, and A. G. Webster, it was unanimously resolved, on the motion of Mr. SWAN, seconded by Mr. BILTON, that they should be re-elected.

Messrs. H. Cook and John Macfarlane were re-elected Auditors of Annual Accounts, on the motion of Mr. GRANT, seconded by the Rev. W.W. SPICER.

William Baynes, Esq., of Queensland, and the Rev. J. B. Richards, President of Horton College, were then, by ballot, elected Fellows of the Society.

Mr. BARNARD said that every succeeding year only served to increase the obligations the Society was under to their Hon. Secretary, Dr. Agnew, whose efforts had not slackened, and who had neglected no opportunity of advancing the Society's interests. They were all deeply indebted to Dr. Agnew for the way in which he fulfilled his self-imposed duties, and he would move—and he was sure all present would gladly

concur with it—that the best and warmest thanks of the Meeting be given to that gentleman for his indefatigable exertions on behalf of the Society and in the cause of science. (Applause.)

The Rev. W. W. SPICER, in seconding the motion, said they ought to thank all whose labours benefited the Society, and few were more deserving of those thanks than Dr. Agnew.

The motion was carried with acclamation.

Dr. AGNEW said he was deeply sensible of the kindness that had invariably been shown to him at these Annual Meetings; but he would be glad to pass on a great portion of the thanks so cordially given, to their excellent Curator, Mr. Roblin—(applause)—whose good, honest, faithful work was deserving of all praise. The number of Fellows kept up very well, and never since its foundation had the Society been in a more healthy and flourishing condition than at present. If the Government could only see fit to give them a little more assistance, a great deal more could be done both for the Museum and the Gardens. It must be remembered that the grant given by the Government to the Museum and Gardens was strictly confined to those institutions; the Royal Society did not receive a farthing. The Society was entirely self-supporting, and they did not require aid for themselves.

Some conversation then ensued on the subject of applying for an increased grant-in-aid, and ultimately it was resolved, on the motion of Mr. DOWDELL, seconded by Mr. S. SCOTT, that Dr. Agnew, Mr. M. Allport, and the Rev. W. W. Spicer be appointed a sub-committee to wait upon the Colonial Secretary and point out the urgent claims of the Museum and the Gardens for increased support.

The Meeting then terminated.

REPORT.

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“The session of 1876 was opened on the 14th of March, but, owing to his absence from town, the inaugural address by His Excellency, as President, was not delivered until the subsequent meeting in April. The attendance of Fellows throughout the session has been larger probably than in any previous year, and papers of both local and general interest have been brought forward. Amongst these may be mentioned :—‘An opening Address,’ by His Excellency Frederick A. Weld, Esq., C.M.G. ‘Notes on a new species of Nudibranchiata,’ by the Rev. J. E. Tenison-Woods. F.G.S., F.R.G.S., etc. ‘Contributions to the Phytograpy of Tasmania,’ part 4, by Baron F. von Mueller, C.M.G., M.D., F.R.S., etc. ‘On the Codlin Moth,’ (*Carpocapsa pomonella*) by His Honor Mr. Justice Dobson. ‘On some Tasmanian Patellidæ,’ by the Rev. J. E. Tenison-Woods, ‘History of Australian Geology,’ by the same. ‘Notes on the Tertiary Marine Deposits of Tasmania,’ by Mr. R. M. Johnston. ‘Notes on the Fossils referred to in the foregoing paper,’ by the Rev. J. E. Tenison-Woods. ‘On a new species of *Ampullaria*,’ by the same. ‘Reminiscences of a Visit to the Volcanoes of Hawaii,’ by His Excellency F. A. Weld, Esq. ‘On a new reversed Helix, (*Helix Weldii*) from the North West Coast of Tasmania,’ by the Rev. J. E. Tenison-Woods. ‘On the effects of wounds inflicted on the human subject by the spur of the Platypus,’ by the Rev. W. W. Spicer, M. A., F.R.M.S. ‘Synonomy of, and remarks upon, Tasmanian and other shells, with their Geographical distribution,’ by John Brazier, C.M.Z.S.

“In reference to one prominent point in His Excellency’s address—the conservation of a portion of Mount Wellington—it may be mentioned that owing to the exertion in Parliament of one of our Fellows, Mr. Russell Young, this great boon has been permanently secured to the public. Those papers which have not yet been published are now in the printer’s hands and will appear in the transactions of the year. We have to regret the absence from the Colony of one of our most valued contributors, the Rev. J. E. Tenison-Woods, but we hope to receive some communications from him during the ensuing year.”

“In addition to the papers previously noticed, communications on the following subjects have been read and brought under discussion, viz. :—
 ‘Soundings taken by H.M.S. Challenger between Australia and New Zealand,’ from Mr. Audley Coote. ‘On the roaring heard in the neighbourhood of the Western Mountains,’ from Rev. E. P. Adams. ‘On the high temperature experienced in some silver mines in America,’ from Mr. A. Coote. ‘Notes on Mr. A. T. Newton’s microscopical examination of Tasmanite, the so called Dysodile of the Mersey,’ from T. Stephens, Esq., F.G.S. ‘On the Language of the Aborigines of Tasmania,’ from Mr. Calder. ‘Notes on *Eucalyptus globulus*, showing the improbability of spurious seed being supplied from Tasmania,’ from F. Abbott, jun. ‘The geological age of the more recent basalts on the south side of Tasmania,’ from M. Allport, Esq., F.L.S., F.Z.S. ‘The destruction of trees and shrubs on Mount Wellington.’ ‘On the shaft lately sunk for coal at Spring Bay,’ etc.

“We have, as usual, to thank Baron von Mueller for learned and elaborate papers.

“Many valuable additions, as will be seen by the printed list, have been made to the library.

As on former occasions, our most liberal contributor has been the American Government, to whom accordingly our warmest acknowledgments are due.

“The usual meteorological observations have been regularly carried on by Mr. Abbott and Mr. W. E. Shoobridge ; and the monthly returns from the various lighthouses have been regularly received. In addition to these duties, Mr. Abbott has kindly undertaken to carry out the simultaneous daily meteorological observations which are now being made throughout almost all the scientific world. These special observations were commenced some months ago at the request of the United States Meteorological Department to which we transmit them regularly twice in each month. Meteorological abstracts for the quinquennial period 1870 to 1875 for Hobart Town have been carefully compiled with much labour by Mr. Roblin, and amalgamated with the existing 30 years’ series. Mr. Roblin has also made abstracts, for the same period, of the returns from the lighthouse and other coast stations. All these are now in the hands of the Government printer.

“Our thanks are due to the Tasmanian Steam Navigation Company, Messrs. W. Crosby & Co., Macfarlane Bros., and Belbin & Dowdell for the transmission of various parcels to England and the neighbouring colonies. Thanks are also due to Messrs. Walch and Sons for the gratuitous distribution of the Society’s publications to members residing in the country.

“During the year fifteen Fellows and four corresponding members have been elected ; and there have been three resignations and six deaths.

“*Council.*—No vacancy has occurred during the year. The list of retiring members has been

posted in the library for the last three days, in accordance with No. 32 of the amended rules of the Society.

“ *Finance*.—The income from all sources was as follows :—Government Grant—in aid to the Museum, £200 ; ditto, Gardens, £400 ; Subscriptions, £188 ; from Marine Board £20 ; sale of plants, etc. at Gardens, £78 2s. 1d. : this with £30 12s. 0d., in the hands of the Superintendent of the Gardens, for the payment of wages, arrears of subscriptions, £30 ; and £3 in the hands of the collector, will give a total of £949 14s. 1d. The expenditure and liabilities as per balance sheet amounted to £993 14s. 1d., leaving a balance to debit of £43 10s.

“ It will be noticed that the outlay for Printing, etc.,—£79 19s. 9d. has been very large, but none of this expenditure could be omitted, as we have been fortunate in the value of the papers contributed during the year ; and the publication of such must always be regarded as a matter of necessity, being the great means whereby we are enabled to keep up friendly relations with learned bodies in various parts of the world.

“ The subscriptions generally have been more promptly forwarded than usual, we regret to say, however, that some members are still in arrears, although the usual notices have been duly forwarded to them.

“ *Gardens*.—It is to be regretted that the new entrance has not yet been completed. The ground work has been for some time past in as forward a state as desirable, and but little remains to be done except the erection of suitable gates. For them the public are entirely dependent on the action of Parliament, and until provision is made

for the necessary cost this much needed entrance must remain in its present unfinished and discreditable condition.

“The ordinary garden expenditure for the past year has exceeded the receipts by upwards of £40. Moreover, many pressing repairs for tools, implements, and buildings, which have involved increased and necessary outlay have been postponed for want of funds, and for the same reason a very fair petition from the labourers for a slight increase their pay (four shillings per diem) could not be complied with. It is only by the most rigid economy, accompanied by considerable difficulty, that the gardens have been kept in a fair state of order for some years past. All such institutions are necessarily progressive, but unfortunately no provision for progress has been made in the present case, for while as far back as 1843 the annual sum of £400 was granted to the Society for the management of the gardens, no addition to this amount is now allowed, although the area of cultivated ground has been very largely increased, immense additions have been made, and are still being made to the collection of plants, and labour and provisions are two-thirds higher in value. This amount, although supplemented by the unskilled labour of a small gang of prisoners, is totally inadequate to the present requirements of the place, and ridiculously small in comparison with the sum voted for Public Gardens in the neighbouring colonies. For the year 1876-7 the sums voted in Victoria were, Botanical Gardens, £7220; Domain and Government House Grounds, £3550. New South Wales, Botanical Gardens, £4469; Hyde Park and Domain, £3513. South Australia, Botanical Gardens, £6700. Queensland Botanical Gardens, £2485. Under such adverse circumstances it must be painfully evident that it is no longer possible,

unless more assistance is rendered by Government, to keep the Gardens in a condition calculated to reflect any credit either on their immediate management or on the colony at large.

“The plants introduced during the year have been greater in number and of more intrinsic value than for some years past. About 500 have been added to the collection. From the Royal Gardens, Kew, a case containing Himalayan Rhododendrons was received in good condition; and from Messrs. A. Verschaffelt and A. Van Geart, cases containing Himalayan and hybrid Rhododendrons, pictorial trees, deciduous Magnolias, Lilies, and numerous other plants have been received.

“The number of Visitors to the gardens is estimated at 48,004, being an increase of nearly 10,000 over that of last year.

“*Museum*.—Six new show cases for shells, etc., have been constructed, and as Mr. Legrand has commenced the arrangement of the Tasmanian specimens, we hope in a very short time to have all the collection properly displayed. Mr. R. C. Gunn, in the early part of the year presented, in a most liberal spirit, the entire of his immense herbarium to the museum. As the collection had become much disarranged, and as many of the plants and much of the paper were quite destroyed, it was found necessary to re-name and re-paper the whole. This formidable task was most kindly undertaken by the Rev. W. W. Spicer and J. R. Scott, Esq., whose services in this matter it is difficult to over-rate, and who are therefore well entitled to the best thanks of the Society. Their task will still probably require several months for completion.

“Among the donations deserving special mention may be enumerated a collection of type speci-

mens of new shells from Long Bay, presented by the Rev. H. D. Atkinson; a large collection of named shells from Mr. J. Brazier, of Sydney; several clubs and spears from New Britain and New Ireland, the gift of the Rev. G. Brown, of Sydney; a large number of type specimens of Tasmanian shells from Mr. W. Legrand; a collection of Table Cape tertiary fossils from Mr. R. M. Johnston; and a valuable named and classified collection of Algæ from Orford, Prossers' Bay, prepared and presented by Mrs. Charles Meredith.

“Although the most rigid economy has been exerted, and much which ought to have been done left undone, the grant-in-aid has been exceeded by £27 17s. With a large and continually increasing collection, it is clear that some addition to the insufficient Government grant has become a necessity.

“The number of visitors to the Museum was 18,726, being an increase of 3,711 over that of 1875.”

STATEMENT OF FUNDS OF THE ROYAL SOCIETY OF TASMANIA for the Year 1876.

RECEIPTS.	£	s.	d.	£	s.	d.
Annual Subscriptions from 94 Members	141	0	0			
Arrears of ditto	36	0	0			
Life Member's Composition	10	0	0			
Cash from P. T. Smith, Esq. (in advance).. ..	1	0	0			
Cash received from Marine Board for clerical assistance in completing Meteorological Tables from the Lighthouses..	20	0	0			
TOTAL ROYAL SOCIETY	208	0	0			
MUSEUM—Grant-in-aid from Treasury	200	0	0			
BOTANIC GARDENS—Grant-in-aid from Treasury	400	0	0			
Proceeds of Sale of Plants, Fruit, &c.	78	2	1			
TOTAL BOTANIC GARDENS	478	2	1			
1877—January 17th—Balance overdrawn at Commercial Bank ..	63	12	8			
	£949	14	9			
NOTE.—Dr.—To overdrawn balance at Bank	63	12	8			
Cash advanced by Dr. Agnew for purchase of new cases.. ..	43	9	4			
	107	2	0			
Cr.—By Cash in hands of Superintendent of Botanic Gardens for payment of Wages	30	12	0			
Subscriptions due	30	0	0			
Ditto since paid	3	0	0			
	63	12	0			
Balance to debit	£43	10	0			

EXPENDITURE.	£	s.	d.	£	s.	d.
Jan. 19th.—Balance overdrawn at Commercial Bank, as per statement for 1875	47	16	10			
Interest on overdrawn account, 30th June, 12s. 7d. ; 31st Dec., £1 1s. 11d.	1	14	6			
ROYAL SOCIETY.—Meteorological Instruments	1	0	0			
Printing and advertising... ..	79	19	9			
Postage, Parcels, &c.	7	8	4			
Collector's Commission	9	5	6			
Messenger	0	10	0			
Clerical assistance for completing Lighthouse Meteorological Tables	20	0	0			
Library—Books, Stationery, &c.	30	9	10			
TOTAL ROYAL SOCIETY	148	13	5			
MUSEUM—Salary of Curator... ..	125	0	0			
Wages of Attendant	52	0	0			
Insurance	6	7	6			
Purchase and preparation of Specimens	2	1	0			
Water Rate	5	4	4			
Fuel and Light	4	12	9			
Paper for Herbarium	11	14	8			
Sundries and Petty Cash... ..	3	15	6			
Ironmongery, Brushware, &c.	1	12	6			
Freight and Carriage of Specimens	2	8	8			
Fittings, Repairs, &c.	13	0	1			
TOTAL MUSEUM... ..	227	17	0			
BOTANIC GARDENS—Salary of Superintendent	150	0	0			
Wages of Labourers	265	0	0			
Tools and Repairs... ..	4	1	0			
Freight and Carriage of Plants	27	0	11			
Stationery and Stamps	4	10	8			
Forage	5	15	10			
Ironmongery	32	17	5			
Repair of Buildings	2	6	6			
Seeds	2	8	0			
Sundries	27	0	8			
Water Rate	2	12	0			
TOTAL BOTANIC GARDENS	523	13	0			
	£949	14	9			

30th January, 1877.

Examined and found correct { HENRY COOK }
 { JOHN MACFARLANE } Auditors.

BOOKS, ETC., PURCHASED AND PRESENTED DURING
1876.

[*Presentations marked thus**]

- Arts, Journal of Society of, current numbers.
Agricultural Gazette, The, ditto.
Athenæum, The, ditto.
*Address, at opening of Session 1876. By His Excellency F. A. Weld, Esq., C.M.G. From the author.
———, Inaugural, at opening of Session 1876, Adelaide University. From the University.
Astronomical and Meteorological Observations, United States Naval Observatory, 1870 and 1872. From Rear-Admiral F. B. Sands, Washington.
Australia, McKinlay's tracks across.
Ampullaria, On a new Species of. By the Rev. J. E. Tenison-Woods, F.G.S., F.R.G.S., etc. From the author.
Academy, American of Arts and Sciences, Proceedings vol. 9, 1874 ; vol. 2, 1875.
———, Commemorative Notice of Louis Agassiz, by Theodore Lyman. From the Academy.
——— of Natural Sciences, Philadelphia, Proceedings of, parts 1, 2, 3 ; 1875. From the Academy.
*Botanical Gardens, Imperial, of St. Petersburg, Publications of, 1875.
*Bible, The, printed in the Irish language. Presented by Miss Fergusson, Tinderbox Bay.
*Botanical Reminiscences of British Guiana. By Dr. R. Schomburgk. From the author.
*Birds of the North-West (United States). By Elliott Cones. Presented by F. V. Hayden, Esq., United States Geological Survey.
*Colonies, The, current numbers. From the publishers.
*Catalogue, British Museum, "Marine Polyzoa," Part 3, 1875. From the Trustees.
*———, Museum of Comparative Zoology, Harvard College, Cambridge, U.S.
Conchologia Iconica, Parts 322 to 329.
*Collectors' Handy Book for Ferns, Mosses, etc. Presented by the Rev. W. W. Spicer, M.A., F.R.M.S.
*Cholera, Epidemic of, in United States, 1873, Report on. By J. M. Woodward, M.D. Presented by the United States Government.
*Climbing Plants, on the habits and movements of, 1875. By Charles Darwin, M.A., F.R.S. From His Excellency the Governor.
*Exhibition, Melbourne, 1875, Official Record of. From the Commissioners.
*Education, Public, Pennsylvania, U.S., Report of Board of, 1874. From the Board.
———, the scientific, of Mechanics and Artizans. By Andrew P. Peabody. From the Smithsonian Institution, Washington.
*Earths Interior, Present condition of. By G. Kittredge. From the Buffalo Society of Natural Sciences.

- *Explorations of the Colorado of the West, United States. By Professor Powell.
- Florist and Pomologist, The, current numbers.
- Feathers, Stray (Indian Ornithology), Vol. 3, parts 5 and 6; Vol. 4, parts 1, 2, 3.
- *Flora of S. Australia, The. By Dr. R. Schomburgk. From the Author.
- *—— Colorado, Synopsis of. By T. B. Porter and J. M. Coulter. From F. V. Hayden, Esq., United States Geologist.
- *—— British India, Part 4. By J. D. Hooker, C.B. From the Secretary of State for India.
- *Flowers, British Wild, in relation to Insects. By Sir John Lubbock, M.P., F.R.S. From Rev. J. E. Tenison-Woods.
- Gardeners' Chronicle, The, current numbers.
- Geological Magazine, The, ditto.
- *Geography, Physical, of the Atlantic. By Captain Toynbee, F.R.A.S., F.R.G.S. From Meteorological Office, London.
- Geological Survey of India, Records of Vol. 8, parts 1 to 4; Vol. 9, part 1. Memoirs of Vol. 1, Nos. 2 and 3, "Jurassic Fauna of Cutch," "Cephalopoda" (Palæontologia Indica), Ditto Vol. 2, Part 2. Ditto Part 4, ser. 9. From the Government of India.
-
- the Territories (United States), Report Vol. 6. — Bulletin of No. 2, and 2-3, second series. — Geological and Geographical Survey of Colorado, 1873. — Lists of elevations of part of United States, west of the Mississippi River. — Catalogue of publications of the department. Report of, Vol. 2, 1865. Bulletin of Vol. 1, Nos. 5 and 6, and Vol. 2, No. 1. Catalogue of Photographs 1869-1875. From F. V. Hayden, Esq., United States Government Geologist.
- *Geological Exploration of the 40th Parallel, United States, Vol. 3, "Mining Industry," with Atlas; Vol. 5, "Botany."
- *—— and Geographical Explorations and Surveys west of the 100th meridian (U.S.), "Topographical Atlas," 12 sheets and title-page. From the American Government.
- *Geology, History of Australian. From the author, the Rev. J. E. Tenison-Woods, F.G.S., &c.
- *Historical and Archæological Society of Ireland, Annual volume of, for 1874. Journal of Nos. 20, 21, 22. From Dr. Agnew.
- *History, Surgical, of the War of the Rebellion, Vol. 2. From the United States Government.
- *Hawaii, Reminiscences of a Visit to Volcanoes of. From the Author, His Excellency F. A. Weld, Esq., C.M.G.
- *Helix, on a new reversed Tasmanian. From the author, the Rev. J. E. Tenison-Woods.
- *Institute, Essex (Salem, Mass., United States), Bulletin, Vols. 5 and 6, 1873-4. From the Institute.
- *Journal, Quarterly of Science, current numbers.
- *Journals, House of Assembly, Tasmania. From Government.
- *Locusts, on the appearance of, on Lake Bieler, 1875. From the author, Albert Müller.
- *Longitude, Report on difference of, between Washington and St. Louis. By Prof. W. Harkness. From the author.

Magazine, Country Gentleman's, The, current numbers.

**Mathematische anzeiger*, Nos. 21 and 28, 1874-5. From the Royal Academy of Sciences, Vienna.

**Musée Tayler*, Haarlem, Archives, vols. 1, 2, 3, and part 1 vol. 4. From the Directors.

**Memoir of C. P. von Martius*, by Charles Rau. From the Smithsonian Institution, Washington.

**Museum of Comparative Zoology*, Harvard College, Report for 1873. From the Trustees.

**Minerals of New South Wales*, The. From the author, Professor A. Liversidge.

**Moth, Codlin, on the*. By His Honor Mr. Justice Dobson. From the author.

**Meteorology*. Observations in New Zealand, 1874-5. Ditto for Wellington, Nov., 1875 to Oct., 1876 Abstracts of observations January to July, 1876. Comparative table of climate, for 1875. From the Director of Observatories, Wellington.

*———. Results of Observations in New South Wales, 1874, Monthly tables from October, 1875, to April, 1876. From the Government Observatory.

*———. Report of Kew Committee of Royal Society, 1875. From Royal Society, London.

*———. Report of Chief Signal Officer, Washington, U.S., 1872-3. Daily Bulletin, Dec., 1872, to June, 1873. Washington Observations, 1873. From Brig.-Genl. Myer, Chief Signal Officer, Washington, U.S.A.

**Meteorological Office*, London. Quarterly Weather Report, part 2, April to June, 1874. Meteorology of Japan, 1876. From the office.

*———. Observations, Hobart Town, monthly tables. From F. Abbott, F.R.A.S., F.R.M.S.

*———, Port Arthur, ditto. From Dr. Coverdale.

*———, Mount Nelson, Goose Island, Swan Island, Kent's Group, King's Island, and South Bruny, ditto. From the Hobart Town Marine Board.

———, Melbourne, monthly tables. From the Government Observatory.

**Magnetic Dip*, Observations on, at Kew. From the Director, Kew Observatory.

Natural History, Annuals and Magazine of. Vol. 16, Nos. 95, 96; vol. 17, Nos. 97 to 102; vol. 18, Nos. 103 to 106.

Nature, Current numbers.

**Natural History*, Anderson School of, Penikese Island, United States, The Origin and Progress of. From the Trustees.

**Newspapers*, Old English, 10 Reprints of. From Mr. J. B. Mather.

**Nudibranchiata*, Notes on New Species of. By the Rev. J. E. Tenison-Woods, F.G.S., etc. From the author.

**Navy Register*, United States. From the American Government.

**Orchids*, Australian, Vol. 1. From C. M. Maxwell, Esq.

*———, parts 1 and 2. From Government of New South Wales per Colonial Secretary, Tasmania.

- **Phytographiæ Australiæ*, Fragmenta, vols. 1, 6, 9. From the author, Baron F. von. Mueller, C.M.G., M.D., F.R.S., etc.
- **Phytography of Tasmania*, Contributions to, part 4. By the same. From the author.
- *Plants, on select textile. From the same.
- *——, on Food of. By W. E. McIvor. From the same.
- Plantarum, Genera.* By G. Bentham and J. D. Hooker.
- *Patents, Abstracts of Victorian, 1876. From Registrar-General, Victoria.
- *Photography, Dictionary of. By Thos. Sutton. From the Rev. J. E. Tenison-Woods.
- *Patellidæ, On some Tasmanian. By the Rev. J. E. Tenison-Woods, F.G.S., etc. From the author.
- *Platypus, On the effects of wounds inflicted by the spur of. By Rev. W. W. Spicer, M.A. From the author.
- Report of British Association, 1875.
- *——, 10th Annual, of Colonial Museum, Wellington, New Zealand. From the Director.
- *——, 7th Annual, Museum of Natural History, New York. From the Director.
- *—— of progress and condition of Botanic Gardens and Government Plantations, Adelaide, 1875. From Dr. R. Schomburgk.
- *—— of Smithsonian Institution, 1871 and 1873. From the Smithsonian Institution.
- *—— on the Chemistry of the Earth. By F. Sterry Hunt. From the same.
- *——s on Meteorological, Magnetic, and other observations in Canada, 1875. From G. T. Kingston, Esq., Government Observatory, Toronto.
- *Society, Philosophical and Literary of Leeds, Report 1874-5. From the Society.
- *——, Entomologique de Belgique, Comte Rendu. From the Society.
- *——, Meteorological of London, Journal of. From the Society.
- *——, Royal, Proceedings of, current numbers. From the Society.
- *——, Zoological, of London. Proceedings, part 4, 1874; parts 1, 2, 3, 1875, &c. From the Society.
- *——, Geological of London, Quarterly Journal of, Nos. 119 to 124. List of, 1875. From the Society.
- *——, Royal Geographical, Journal Vol. 14, 1874. Proceedings Vol. 19, Nos. 1 to 7, 1875.
- *——, Royal Asiatic, Journal of, Vol. 7, part 2. Annual Report, 1875.
- *——, Linnean, Journal of, Nos. 78 to 8 (Botany); No. 12 (Zoology).
- *——, Royal Asiatic of Japan, Transactions, Vol. 3, part 2.
- *——, Linnean of New South Wales, Proceedings of, Vol. 1, parts 1, 3.
- *——, Royal Astronomical, Monthly Notices of, Nos. 2 to 8, 1876. Memoirs of, Vol. 39, part 2, 1871-2; Vol. 42, 1873-1875.
- *——, Boston, of Natural History, Memoirs of, Vol. 2, part 2 No. 4; part 3, Nos. 1 to 5; part 4, No. 1. From the Society.

- *Society, Boston, Proceedings of, Vol. 15, parts 3 and 4 ; Vol. 16, parts 1, 2, 3, 4 ; Vol. 17, parts 1, 2. Report of meeting of. From the Society.
- *——, Buffalo, of Natural Sciences, Bulletin of, Vol. 1, No. 4 ; Vol. 2, Nos. 1, 2, 3, 4 ; Vol. 3, Nos. 1 and 2. From the Society.
- *——, American Philosophical, Proceedings of, Vol. 14, Nos. 92, 93, 94, 95. From the Society.
- *——, Royal, of New South Wales, Proceedings of, Vol. 9, 1875.
- *——, Adelaide Philosophical, Publications of, various. From the Society.
- *——, Geological and Polytechnic, of West Riding of Yorkshire, Proceedings of, n. s. parts 1 and 2. From the Society.
- *Statute Index, Tasmania. By H. M. Hull. From the Author.
- *Statistics of New Zealand. From New Zealand Government.
- *—— Tasmania. From Government Statistician.
- *—— Victoria. From Government Statist.
- *Stars, Catalogue of 1845 to 1871. From the U.S. Naval Observatory, Washington.
- *——, Zones of, observed with mural circle, 1846-1849.
- *——, —— Transit instrument ditto. From ditto.
- *——, —— Results of observations, 1853 to 1860. From ditto.
- *——, Equatorial Fundamental, On Right Ascensions of, 1870. From ditto.
- *Smithsonian Miscellaneous Collections, vol. 10. From the Smithsonian Institution.
- *Shells, Descriptions of eleven new species. By J. Brazier, C.M.Z.S. From the author.
- *——, ——ten———. By the same. From ditto.
- *——, Synonymy of and Remarks upon Tasmanian and other. By the same. From ditto.
- *Trade, Free, the creed of, 1875. By D. A. Wells, LL.D. From the Cobden Club, London.
- *Treaties of Commerce, On. From ditto.
- *Transactions of New Zealand Institute, vol. 8, 1875. From Dr. Hector.
- *—— of Society of Engineers and Shipbuilders in Scotland, vol. 19, 1876. From the Society.
- *Tea, a lecture on. By Baron von Mueller. From the author.
- *Tertiary Marine Deposits of Tasmania, Notes on. By R. M. Johnston. From the author.
- *Tertiary Fossils, Tasmanian. By the Rev. J. E. Tenison-Woods, F.G.S., etc.
- *University, Howard, United States, Report of, 1875-6.
- *Victoria, Natural capabilities of. By Baron F. von Mueller, C.M.G. &c.
- *Victorian Year Book. By H. Hayter, Government Statist, Victoria (3 Copies.)
- *Wales, New South, Progress and Resources of, 1876. From Government of New South Wales.
- *——, ——, Mineral Map and Statistics of. From ditto.
- Zoology of the "Erebus and Terror," parts 19 to 24.
- **Zapus hudsonensis*, Account of. By Dr. Elliott Cones. From United States Government.

PRESENTATIONS TO MUSEUM DURING 1876, WITH NAMES OF DONORS.

- Atkinson, Rev. H. D.—26 specimens of new shells from Long Bay.
- Bennett, Dr. G., F.Z.S., Sydney.—An ammonite from Western Australia. Two portions of Humerus, and two ditto of Lower Jaw of Diprotodon, from Darling Downs, Queensland.
- Boyes, Mr. Lukin.—A large specimen of a species of *Spondylus*. Two very large Earthworms from Gould's Country.
- Baker, Mr. J., Sydney.—Two samples of Tin Ore from New South Wales.
- Barclay, C. J., Esq.—Specimens of the copper coinage withdrawn from circulation in 1875. 25 pence, and 25 half-pence. 28 specimens of the Bronze coinage in circulation in Tasmania at the time of the withdrawal of the copper currency.
- Blyth, Mr., Honeywood.—Two Black Snakes (*Hoplocephalus curtus*.) Two insects from the upper branches of a Stringy Bark tree.
- Baynton, Mr.—Specimen of silicified wood from Brown's River Beach.
- Barnard, Mr. D. M.—A yellow-bellied Beaver Rat (*Hydromys chrysogaster*) from Fingal.
- Butler, A. A., Esq.—Tin specimens from lode, tin nuggets, etc., from Cascade River, Belmont, Ringarooma.
- Briant, Mr. W. G.—32 specimens Tasmanian Lepidoptera.
- Bealey, Mr.—A large fungus (probably *Polyporus igniarius*) from a tree.
- Bailey, Rev. J. H. Brooke.—3 Silver and 4 copper coins from Ceylon.
- Bidencope, Mrs. J.—Two cases of Indian Lepidoptera.
- Brown, Mr. R. M.—15 New Zealand and 3 Australian copper tokens.
- Brown, Rev. G., Sydney.—8 spears and 3 clubs from New Britain and New Ireland.
- Brazier, Mr. John, C.M.Z.S., Sydney. 755 named specimens of Shells, with list.
- Bagley, Mr., Oatlands.—A young Tippet Grebe (*Podiceps australis*.)
- Coverdale, Dr., Port Arthur.—A large hair ball from the stomach of a calf six weeks old.
- Coote, Mr. Audley.—6 sections of Australian and New Zealand Telegraph Cable showing shore end, intermediate, and deep sea portions.
- Crowther, Dr. E. L.—A large collection of tin specimens from Gould's country. A specimen of the Nankeen Night Heron (*Nycticorax caledonicus*.)
- Cooper, Mr. Sorell.—Head of Sheep with curious horny growth from ear.
- Castray, L. R., Esq.—A very large Egg from a half-bred Brahma Fowl.
- Castles, Mr.—Tin Ore from Schouten Island.
- Dumbleton, Major.—Two casts of Fossils from River Mersey.
- Davies, Mr. C. E.—A Chestnut-faced Owl (*Strix castanops*.)
- Edwards, Mr. F.—Tusk of large Boar, shot in New Zealand.
- Edmonson, E., Esq.—A white-breasted Oyster Catcher (*Haematopus longirostris*.)

- Forrest, Master L.—33 specimens of *Lepidoptera*.
 Feeney, Mr.—Sample of Coal from Sandfly Rivulet.
 Fergusson, Mr. J., Tinderbox Bay.—A collection of Shells from Cloudy Bay.
 Free, Mr. W.—A Petrel (Broad-billed Prion) *Prion vittatus*, killed inland at Muddy Plains.
 Gillon, Mr.—Specimen of Opal from Cornelian Bay Cemetery.
 Graves, Mr. J. W.—A Water Crake (*Porzana tabuensis*).
 Gunn, R. C., Esq., F.R.S., etc.—An extensive Herbarium of Tasmanian Plants.
 Groom, F., Esq.—A specimen of the Brown Quail (*Symoicus australis*) partially albino, from St. Mary's.
 Guesdon, Mr.—A slab of mudstone with numerous casts of fossils, from Bruni Island.
 Gulliver Miss, per M. Allport, Esq.—Six prepared skins of birds from Gulf of Carpentaria.
 Gill, Mr. H., Ringarooma.—Tin Ore from Star claim, Cascade River.
 Harrison, Mr. Cades, Brown's River.—Specimen of the Owlet Nightjar (*Egotheles nova hollandia*.)
 Hull, H. M., Esq.—Skull of "Native Tiger" (*Thylacinus cynocephalus*.)
 Hall, Mr. W. E.—A specimen of the Long-eared Bat (*Nyctophilus unicolor*).
 Hardy, Mr. W. F., St. Mary's.—Eggs and young of Leech.
 Hood, Master E.—Specimen of the "Gulf Weed" (*Sargassum* sp.)
 Hickman, Mr. O.—An Echidna.
 Jeffrey, Mr., New Norfolk.—Specimens of fossiliferous limestone.
 Jackson, Mr. A.—An albino Wattle Bird (*Anthochaera incauris*).
 Johnston, Mr. R. M.—A collection of Tertiary Fossils from Table Cape.
 Johnston, Mr. A. R., Telegraph Department, Townsville, Queensland. A net bag made by Aborigines of Northern Queensland.
 Johnston, Mr. H.—A tenpenny piece 1813, Irish.
 Keen, Mr. J.—Sample of a plumbago-like substance from Kingston.
 Ludbey, Mr.—Two specimens of Fossil Wood from Brighton.
 Lewis, J. K., Esq.—Specimen of the Caspian Tern (*Sylochelidon caspia*) shot at Frederick Henry Bay.
 Legrand, Mr. W.—About 50 specimens of new Tasmanian Shells.
 Legge, Captain R. A.—A living specimen of the White-bellied Sea Eagle (*Haliastur leucogaster*) from Ceylon.
 Morrisby, Mr. T.—A White Hawk (*Leucospiza nova hollandia*).
 MacLanachan, Hon. J., Esq.—An Egyptian Goose (*Chenalopez egyptiaca*).
 Martin, Mr. J. J.—Boulder (*Septarium*) from Moeraki Beach, New Zealand. Part of stem of Tree Fern prepared for picture-frame making. Rock specimen with crystals of arragonite from Dunedin. Specimen of Oamaru Limestone, Lignite from Green Island, and coal from Greymouth, New Zealand.
 Meredith, Mrs. Charles.—A valuable named and classified collection of Algæ from Orford, Prosser's Bay. Skin of a "Rock" Opossum.
 Miles, Mr.—A Tiger Shark.

- McDiarmid, Captain, Brig "Moa."—Vertebra of a Whale. A Club from Island of Tanna.
- Nairn, Mr.—Two Black Snakes (*Hoplocephalus curtus*.)
- Nichols, Mr.—Sample of Coal from Port Cygnet.
- O'Keefe, Mr.—Barnacles from bottom of steamship "Mangana."
- Piguenit, Mr. W.—Specimen of the paper like bark of a species of Tea-tree from N. S. Wales.
- Petford, Mr. W. F.—18 Specimens of Land Shells from Yule Island, New Guinea.
- Petersen, Mr.—Tin Specimens from Ringarooma.
- Pearsall, Mr.—A Tiger Cat (*Dasyurus maculatus*.)
- Ross, Rev. J.—A large mounted specimen of the Monitor Lizard, from Australia.
- Risby, Mr. J. E.—A large Crab from Pirate's Bay, Eagle Hawk Neck.
- Rice, Mr. G.—A Fresh-water Crayfish (*Astacus sp.*) from McRobie's Gully.
- Roberts, Mr., Huon.—A mass of fibre of bark of a tree which had been struck by lightning. A white-fronted Falcon (*Falco lunulatus*.)
- Scholes, Mr. J. S.—Two silver, and 34 brass and copper coins. Specimen of "Chrome," from Dun Mountain, New Zealand.
- Simson, A., Esq.—Skins and Skeletons of *Antechinus swainsonii*, and two species of Rat from Gould's Country.
- Stephens, T., Esq.—Specimens of wood and foliage of "Red Pine" (*Athrotaxis selaginoides*) and "Pencil Cedar" (*Athrotaxis cupressiformis*) from Middlesex Plains, Tasmania.
- Stephenson, Mr.—A Rail (*Rallus brachipus*) from Jericho.
- Savage, Mr. R.—A Grey Flying Squirrel (*Belidens sciurus*) from the Shannon.
- Spencer, Mr.—Sample of Coal from Jerusalem.
- Scott, J., Esq., M.H.A.—An aboriginal Stone Implement.
- Spicer, Rev. W. W.—A sample of "Pulu," or down of a species of Tree Fern—used in the Hospital for pillows, etc.
- Swan, J., Esq.—Skin of *Belidens sciurus*.
- Turner, Mr.—A Musk Duck (*Biziura lobata*.)
- Valentine, Dr., Campbell Town.—A Pouched Lamprey (*Geotria allporti*.) From the South Esk.
- Williams, Mr. T.—A specimen of the Pacific Heron (*Ardea pacifica*) shot on Lake Tiberias.
- Weston, Maurice, Esq.—Skeleton of Australian Crane (*Grus australasianus*).
- Woods, Rev. J. E. Tenison.—Crabs from Bruni Island.
- Wilkins, Mr. A.—Specimens of Tin, Antimony, Copper, etc., from Cudegong, N. S. Wales. Silver ore from Mitchell's Creek.
- Weeding, Mr., Oatlands.—Mass of fibrous substance from a hollow tree.
- Wright, S. P. H., Esq., Glenorchy.—Ditto.
- Williams, Mr. R. M.—Crystals of Oxide of Tin, and two Sapphires from Queensland.
- Young, Mr. J.—Specimen of "Sea Hare" (*Aplysia*) from beach in Domain.
- Young, Mr. J., Wellington, N. Zealand.—A portion of the Cook's Straits Telegraph Cable, broken nine years after submersion.

PLANTS AND SEEDS RECEIVED AT BOTANIC GARDENS DURING THE YEAR 1876.

- January 13th.—From Messrs. Vilmorin, Andrieux & Cie., Paris.—1 packet seed, 4 ditto Achimenes.
- January 13th.—From Baron Ferd. von Mueller.—6 packets seeds.
- January 22nd.—From Mons. J. Verschaffelt, Ghent, Belgium, per St. Osyth.—1 case Rhododendrons, Tree Peonys, and Pictorial Trees.
- January 22nd.—From Walter Hill, Esq., Director Botanic Gardens, Queensland.—1 case plants.
- January 26th.—From the Botanic Gardens, Christchurch, New Zealand.—1 case plants.
- January 27th.—Mr. S. Purchase, nurseryman, Sydney, New South Wales.—1 case plants.
- January 27th.—From the Botanic Gardens, Calcutta.—Seeds of *Pinus longifolia*.
- February 5th.—From Mr. Wm. Bull, New Plant Merchant, London.—22 varieties Lily.
- January 28th.—From Mr. Wm. Waterhouse.—Seeds, “Pride of Demerara.”
- March 14th.—From Messrs. Vilmorin, Andrieux & Cie., Paris.—3 packets seeds.
- March 21st.—From Dr. Curl, Otago, New Zealand.—2 packets seeds.
- April 8th.—From the Royal Gardens, Kew.—Case containing Cork Oaks and Himalayan Rhododendrons.
- April 22nd.—From Jules Cock & Sœurs.—18 packets seeds.
- April 22nd.—From Messrs. Hubers and Co., France.—48 varieties seeds.
- April 29th.—From Lady Rolle, Picton, Chudleigh, England.—11 packets Coniferae seeds.
- May 17th.—From His Excellency F. A. Weld, Esq.—20 papers seeds.
- May 19th.—From Dr. Webster, Dunedin.—3 New Zealand Tree Ferns.
- June 2nd.—From Mr. G. Farnsmouth, London.—1 case seedling Rhododendrons.
- June 8th.—From the Chamber of Agriculture, Washington.—63 papers seeds.
- June 19th.—From Mr. Samuel Purchase, nurseryman, Sydney, New South Wales.—Case containing 60 plants.
- June 23rd.—From Dr. Curl, Wellington, New Zealand.—6 papers seeds.
- June 26th.—From Messrs. Nardy & Cie., Hyères, France.—16 papers seeds.
- August 3rd.—From Mr. G. Brunning, St. Kilda Nurseries, near Melbourne.—Case containing 78 plants.
- August 7th.—From Messrs. Shepherd & Sons, Darling Nursery, Sydney.—Case containing 63 plants, and 33 varieties scions, 83 papers seeds.
- September 11.—From A. Thozet, Esq., Queensland.—Seeds, 4 species Cycads.
- September 18th.—From the Botanic Gardens, Christchurch, New Zealand, one box scions.

- October 13th.—From the Royal Gardens, Kew, London.—48 papers seeds.
 November 13th.—From the Botanic Gardens, Christchurch, New Zealand.—Box containing 60 plants.
 November 25th.—From F. Sander and Co., St. Alban's, near London.—9 varieties Orchids.

PLANTS AND SEEDS SENT FROM THE BOTANIC GARDENS DURING 1876.

- Jan. 29th.—To Mons. J. Linden, Ghent, Belgium.—12 Tree Ferns.
 January 29th.—Per "Lufra," to Mons. J. Verschaffelt, Ghent, Belgium.—12 Tree Ferns.
 March 7th.—To the Chamber of Agriculture, Washington, United States.—Package seeds.
 March 7th.—To Mr. M. Tunaki, Agricultural Department, Japan.—1 package seeds.
 April 19th.—Per "Alfred Hawley," to Mons. August Van Greet, Ghent, Belgium.—6 Tree Ferns.
 May 15th.—To Jules Cock & Sœur, France.—3 species Cordyline seeds.
 May 15.—To Ch. Huber & Cie., Hyères, France.—3 species Cordyline seeds.
 May 15th.—To Messrs. Vilmorin, Andrieux & Cie., France, 3 species Cordyline seeds.
 May 30th.—To Mr. Samuel Purchase, nurseryman, Parramatta, near Sydney.—1 case plants.
 May 30th.—To Messrs. Shepherd Sons, Darling Nursery, Sydney, New South Wales.—1 case plants.
 June 10th.—To the Acclimatisation Society, 19 Rue de Lille, Paris.—1 package seeds.
 June 14th.—To the Botanic Gardens, Melbourne.—1 case plants.
 June 20th.—Mr. Samuel Purchase, Somerset Nursery, Sydney.—1 box seeds.
 June 20th.—To Messrs. Shepherd & Co., Sydney.—One box seeds.
 July 24th.—To the Botanic Gardens, Christchurch, New Zealand. Case containing 48 plants.
 July 25th.—To Mr. G. Brunning, nurseryman, Melbourne.—Case plants and seeds.
 September 29th.—To the Botanic Gardens, Christchurch, New Zealand.—1 box plants.

PLANTS SUPPLIED FOR PLANTING PUBLIC PLACES DURING 1876.

- May 16th.—For the Launceston Hospital.—30 Coniferæ.
 May 18th.—For Church of England Grounds, Bothwell.—130 plants.
 June 9th.—For the Queen's Asylum.—Collection plants.
 June 23rd.—For the Hobart Town Cemetery.—180 plants.
 July 10th.—For Church grounds, Avoca.—50 plants.
 July 10th.—For Grounds of Horton College, Ross.—100 plants.
 July 29th.—For Congregational Church, Richmond.—36 plants.
 August 8th.—For the Cornelian Bay Cemetery.—150 plants.

F. ABBOTT, JUN., Superintendent.

PLANTS INTRODUCED INTO THE ROYAL
SOCIETY'S GARDENS, 1876.

Abutilon boula de neige	Callicarpa cana
„ megapotanicum varie-	Campanula glomerata
gatum	Cassia chamaecirta
„ Sellowianum marmor-	Centaurea procumbens
atum	Cerasus folius variegatus
Acer dissectum	Ceropegia elegans
„ „ roseus pictis	Cinnamomum dulce
„ atropurpureum	Clarkia elegans alba pleno
Achillea eupatorium	Clerodendron Thompsoni
Achyranthus aurea reticulata	Coleus grotesque
Adiantum hirsutum	Cookie punctata
„ pubescens	Corylus avellana pendula
Æsculus Stevensi	Cupressus filifera
„ laciniatum	„ horzontalis argentea
Allsophila Cooperi	„ „ Turneri
Alocasia metallica	„ „ variegata
„ violacea	„ sempervirens variegata
Aloysia bergamotta	Cycas angulata
Alphistonia excelsa	Cydonia Moorlosi
Andromeda mariana	Cyperus alternifolius variegatus
Angelonia grandiflora	Cystopteris Dyckiana
Anigozanthus pulcheri	
Anthericum Rossie	Dalecampia Roezliana
Anthurium cordifolium	Dombeya Mastersi
Aquilegia olympica	„ natalensis
Aristolochia gigantea	Dichorisandra thyrsiflora
Aspidistra lurida variegata	Dicksonia Smithii
Asplenium falcatum	„ Youngiana
Aucuba fœmina	Dieffenbachia picta
„ limbata	Dillwynia acicularis
„ longifolia	„ mollissinia
„ macrophylla	Dracæna amabilis
„ mascula	„ alba marginata
„ picta	„ Gayi
„ salicifolia	„ Guilfoylei
„ viridis	„ Shepherdii
Audibertia polytricha	„ Wrightii
	„ Youngii
Baccharis halamifolia	Dracocephalum Ruysciana
Beaumontia grandiflora	
Begonia argyrites	Echeveria abyssinica
„ canary bird	Edworthia grandiflora
„ Veitchei	Erica autumnalis
Betula laciniata	Eryngium Lewenworthi
„ pendula	„ pandanifolium
Bignonia alba lutea	Eschynanthus Lobbi
Bossiaea microphylla	Eucalyptus hamastoma
„ scolopendrium	„ hemophloia
Bowenia spectabilis	„ longifolia
Brazillian cherry	„ meliodora
Bubthalmium salicifolium	„ siderophloia
Buxus sempervirens variegata	Euphoria Litchi

Eurya latifolia variegata

Ficus Bengamini

„ *lucida*

„ *lurida*

„ *obtusata*

Franciscea latifolia

Fraxinus excelsa Stewarti

„ *dissectum variegatum*

Fuchsia microphylla

Garcinia mangostana

Gardenia magnifica

Genetylis fuchsioides

Gymnogramma Muellieri

Gymnostachya giganteum

Hebeclinum ianthinum

Heliotropium aureum

„ *little negress*

Hibiscus campdeni

„ *Lambertiana*

„ *liliflorus*

Howenia dulcis

Inga aurea

„ *pulcherrima*

Jacaranda mimosicefolia

Laelia albida

„ *autumnalis*

„ *majalis*

Lactaria calicarpa

Laurus ceylonica

„ *nitida*

Ligustrum aureus variegatus

Lobelia cardinalis

„ *syphilica*

Lygodium scandens

Macrolophia strigosa

Macrozamia corallipes gyrata

„ *Migueli*

„ *Perowskiana*

Mangifera indica

Magnolia Campbells

Maranta regalis

„ *sanguinea*

Marshallia cæspitosa

Mimulus alatus

Musa superba

Nephelium longana

Nerium album pleno

Odontoglossum cordatum

„ *Leopoldianum*

Oncidium barkeri

„ *cavandishianum*

„ *tigrinum*

Owenia cerasifera

Oxycoccus macrocarpus

Panicum plicatum

Papaver pilosum

„ *umbrosum*

Passiflora Bounapartea

„ *decaisneana*

„ *granadilla*

Pavonia coccinea

Pentstemon albiflora

Periploca græca

Petrophila pulcheri

Phyllodendron lindenianum

Phlox Nelsoni

Pimenta vulgaris

Pinus edulis

„ *Kashiana*

„ *Lowdoniana*

„ *macrocarpa*

„ *monophylla*

„ *Pattoniana*

Polypodium glaucum

Pteris pedata

„ *scaberrula*

Pyrus aucuparia pendula

Retinospora obtusa variegata

Rhaponticum nivium

Rubus rugosa

Salvia gigantea

„ *sanguinea grandiflora*

Scutellaria macrantha

Spirea palmata

Silene saponaria

Stephanotus Thouarsi

Stipa tenacissima

Strelitzia juncea

Syncarpia albens

Tacsonia Buchananni

„ *insignis*

Taxus baccata argentea

Tecoma fulva

„ *Stans*

„ *velutina*

Tetratheca verticillata
 Thibandia macrantha
 Thunbergia laurifolia
 „ Harrisi
 Thuja occidentalis variegata
 Tilia argentea variegata
 „ pendula
 Tulipa clusiana
 „ cornuta
 „ elegans
 „ lutea major
 „ Markgraf de Bade
 „ oculis solis
 „ perfecta
 „ persica
 „ parrot constantinople
 „ „ gloriosa
 „ „ red
 „ „ rubra et lutea
 „ „ yellow
 Tupa Bridgesi
 Tydea venosa
 Ulmus anrea
 Vanilla aromatica
 Whitsenia solanacea
 Wisteria Bidwilli
 Yucca oloifolia variegata
 Zamia Mackenzii

ROSES.

Annie Laxton
 Auguste Rigotard
 Deuil de Paul Fontaine
 Emile Hansburgh
 Felix Genero
 Francois Sacharme
 „ Michelon
 „ Madame Eugene Verdier
 „ Madame Morceau
 „ Marie Beauman
 „ Maurice Bernardin
 „ Monsieur Boncenne
 „ Perle de Lyon
 „ Princess Beatrice
 „ Queen of Waltham
 „ Reynolds Holes
 „ Richard Wallace
 „ Star of Waltham

RHODODENDRON.

Adele
 Amazon
 Alarm
 Aboreum
 August van Geert
 Carbatum
 Beranger
 Bijou
 Blandfordiaeflorum
 Camelliaeflorum
 Cinnabarinum
 Compt de Flandre
 Dalhousie
 Evelyn
 Griffithianum
 Isabella
 John Waters
 Lady Molesworth
 Lord Elgin
 Macenlatum nigrum
 Maddenni
 Marion
 Nero
 Nimon d'Enclos
 Ophelia
 Paxtoni
 President Van den Heck
 Prince Camille de Rohan
 Prince of Wales
 Princess of Wales
 Princess Alice
 Rebecca
 Rhoda
 Rosalie
 Rosetta
 Satanella
 Sir Thomas Ackland
 Souvenir de Jean Byls
 Stella
 Stephanie
 Towardianum
 Vicompt de Blois
 Vivid

CAMELLIA.

Augusta superba
 Beali rosea
 Belle de fierense
 Belle de pontean
 Bonomiiana
 Countesse Cellini

Carlotta Papindoff
 Compt de Paris
 Countesse of Orkney
 Don Raleri
 Henri Favre
 Imbricata
 Jenny Lind
 La pace
 Lavinia Maggi
 Lavinia Maggi rosea
 Noli ne tanque
 Princess Frederick William
 Queen Victoria
 Rose la Reine
 Sanchezi
 Tragioni
 Vandessa superba

AZALEA.

Alba delecta
 Amœna
 Baron de Prie
 Colorans
 Duc Adolph de Rossau
 Duc de Brabant
 Exquisite
 Fielderi
 Glory of Sunning Hill
 Murayanum
 Obtusifolia
 Obtima
 Rosea superba
 Splendens
 Vittata punctata

MOUTAN PÆONY.

Cardinal Antonella
 Comptesse de Flandre
 Elizabeth
 Evelyn
 Fimbriata carnea pl.
 Fragrans maxima pleno
 George Rollison
 Leader
 Madame d'Andrimont
 „ Catelan
 „ Jules urban
 „ Leduc
 „ Stewart Low
 Mademoiselle Shenmakers
 Professor Dalbeauf
 „ de Konninck

President Lambinon
 Purpurea violacea
 Regia
 Rubra odorato plenissima

GERANIUM.

Agrippa
 Brigand
 Brigantine
 Black Prince
 Celeste
 Charles Turner
 Cynthia
 Czar
 Duke of Edinburgh
 Edgar
 Happy thought
 Imperator
 Lady of the Lake
 Leotard
 Mayday
 Mrs. Ford
 Miss in her teens
 Pompey
 Prime Minister
 Pasha
 Queen Victoria
 Sultana

FUCHSIA.

Cannell's gem
 Delight
 Lady Heytesbury
 Little Bobby
 Lizzie Hexham
 Nabob
 Pyrene
 Symmetry
 Transplendent

CHRYSANTHEMUM.

Barra
 Clementine
 Dr. Rogers
 Ernest
 Gazelle
 Gustave Roy
 Japanese Empire
 Lustina Lewia
 Mrs. Dix
 Mrs. S. Morgan

Mrs. L. Peabody
Miss Florence Nightingale
Nelly
Pablo
Rajah
Baron des Sandwich Isles
The little gem
Thermos
Yeddo lilac

LILIUM.

Californicum
Callosum
Candidum variegatum
Chalcedonicum
Dovuricum fulgidum
 " grandiflorum
 " Johnsoni
 " Sappho
Elegans atrosanguineum
 " maculatum
 " splendida
 " staminosum
 " exineum
 " Humboldtii
 " monodelphum Schooitz-
 ianum
 " parvum
 " purpureum
 " superbum
 " superbum pyramidale
 " tenuifolium
 " tigrinum flora pleno
 " " jacundam

HYACINTH.

Charles Dickens
Cresus
Grand Lilas
Garrick
Grand vedette
Heroine
Homerus
King Acingarius
Latour d'Auvergne
Lord Wellington
Lieutenant Waghorn
Mammoth
Mars
Mimosa
Prince of Waterloo
Queen of Netherlands

TULIPS.

Admiral Kingsbergen
Belle Lisette
Canary bird
Cornuta
Cerise gris de lin
Cousine
Claremont
Couronne Imperiale
Cramoise superb
Duc van Thol, crimson
 " gold striped
 " white
Elegans
Fiance
Florentina
Germaniæ
Globe de Rigot
Leon d'orange
La blason
La belle Alliance
Lac de Chine
Lutea major
Maulas
Markgraff de Bade
Meteor
Oculis solis
Pœony gold
Parroquet Constantinople
 " gloriosa
 " red
 " rubra et lutea
 " yellow
Pax alba
Persica
Pottebacker white
 " yellow
Proserpine
Queen Victoria
Red gris de lin
Reginæ rubrum
Roi Pepin
Rose aplatis
 " mundi
 " triumph
Standard royal
Vander Nees
Wonverman

APPLES.

Annie Elizabeth
Api

Betty Geeson
 Sceptor d'or
 Buff
 Buncomb
 Burchard reinette
 Carolina red June
 Cheoce
 Dougharty
 Early harvest
 Evagil
 Kentish fillbasket
 Maidens apple
 Mother
 Shockley
 Small's admirable
 Striped beaufin
 Stirling castle
 Tower of Glammis
 Warner's king
 Wheeler's russet
 Winter queening
 Wormsley pippin

PEARS.

Alexander Bivort
 Beurre de Amalis
 Compt de Flander
 Doyenne Defais
 Fondant de Curne
 Gansels Seckle
 Huyshe's Prince of Wales
 Leopold
 Soldat d'Esperen
 Triomph de Lamy

PEACHES.

Barrington
 Lady Palmerston
 Prince of Wales
 Salway

NECTARINES.

Albert Victor
 Balgowan
 Elruge
 Lord Napier
 Stanwick Elruge
 Victoria

CHERRY.

Ohia beauty
 Reine hortense

PLUM.

Imperatrice de Milan
 Jodoigu green gage
 Prince Engelbert

GRAPE VINES.

Allan's black
 Black Manuka
 Catawba
 Chaptal
 Elsinburgh
 Trentham black

F. ABBOTT, JUN.,
 Superintendent.