

# REPORT

OF THE

# ROYAL SOCIETY

OF

# TASMANIA,

FOR THE YEAR

# 1873.



TASMANIA :

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

—  
1874.

# Royal Society of Tasmania.



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HER MAJESTY THE QUEEN.

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MR. T. ROBLIN.

SUPERINTENDENT OF GARDENS :

MR. F. ABBOTT, JUN.

\* Members who retire next in rotation.

## Corresponding Members.

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New Zealand.

## List of Fellows and Members.

† Denotes Life Membership.

Abbott, Francis, F.R.A.S., F.R.M.S. ... ..	Hobart Town
Abbott, F., jun. ... ..	"
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Agnew, J. W., M.D., V.P. ... ..	"
Allport, Joseph ... ..	"
†Allport, Morton, V.P., F.L.S., F.Z.S., Cor- responding Member of the Anthropological Institute of Great Britain, Life Member of the Entomological and Malacological Societies, and Foreign Member of the Royal Linnean and Royal Botanical Societies of Belgium ... ..	"
Archer, William, F.L.S. ... ..	Victoria
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Aubin, F. ... ..	Spring Bay
Aikenhead, Hon. J., M.L.C. ... ..	Launceston
Adams, R. P., Solicitor-General ... ..	Hobart Town
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†Barry, Sir R. ... ..	Melbourne
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Butler, J. ... ..	"
Bromby, Right Rev. C. H., Lord Bishop of Tasmania ... ..	"
Bright, R. S., M.R.C.S. Eng. ... ..	"
Butler, Henry, F.R.C.S. Eng. ... ..	"
Buckland, H. J. ... ..	"
Browne, Justin McC. ... ..	"
Baynton, W. E. ... ..	Kingston
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Briant, G. W. ... ..	Hobart Town
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Browne, N. J. ... ..	{ Meadow Banks, { Glenora.
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Creswell, C. F. ... ..	„
Cotton, Francis ... ..	Swanport
Crawford, Lieut.-Colonel ... ..	Hamilton-on-Forth
Crosby, W. ... ..	Hobart Town
Crowther, W. E. ... ..	„
Clarke, J. ... ..	„
Cruttenden, Thomas ... ..	Woodsden
Castray, L. R. ... ..	Hobart Town
Davies, Ven. Archdeacon, V.P. ... ..	Hobart Town
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Dunn, Hon. J. A. ... ..	„
Du Cane, His Excellency Charles ... ..	Government House
Dobson, H. ... ..	Hobart Town
Davis, Miss ... ..	Cascade
Foster, Hon. John, M.L.C. ... ..	Hobart Town
Fysh, Hon. P. O., M.L.C. ... ..	„
Giblin, Thomas ... ..	Hobart Town
Gould, C., F.G.S., late Government Geologist ... ..	London
Gorringe, Thomas ... ..	Green Ponds
†Gunn, R. C., F.R.S., F.L.S. ... ..	Launceston
Graves, J. W. ... ..	Hobart Town
†Gellibrand, W. A. B., Hon. Member Leeds Institute ... ..	River Ouse
Grant, C. H.... ..	Hobart Town
Gatenby, R. ... ..	Macquarie River
Gellibrand, Miss ... ..	Hobart Town
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Harris, Rev. R. D. P., M.A. ... ..	„
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Huston, G. F. ... ..	New Norfolk
Huybers, A. ... ..	Hobart Town
Hopkins, H.... ..	„
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Howell, F. G. ... ..	Hobart Town
Hopkins, A. ... ..	„
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Jackson, J. A., M.H.A. ... ..	Hobart Town
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Kermode, W. A. ... ..	Mona Vale
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Lucas, R. J. ... ..	Hobart Town
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Macfarlane, James ... ..	Hobart Town
Macfarlane, J. ... ..	„
Mather, J. B. ... ..	„
Maxwell, C. M. ... ..	„
†Milligan, Joseph, F.L.S. ... ..	England
Moore, J. A., M.R.C.S. Eng. ... ..	New Norfolk
Meredith, Hon. C., M.H.A. ... ..	Hobart Town
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Marsh, H. J. ... ..	„
Mace, Rev. J. C. ... ..	Glenorchy
Mace, G. ... ..	Spring Bay
Napier, G. R. ... ..	Hobart Town
Nelson, H. ... ..	„
Nowell, E. C. ... ..	„
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Roberts, H. L. ... ..	Hobart Town
Read, R. Cartwright ... ..	{ Redlands, New Norfolk
Rule, J. ... ..	Hobart Town
Riddoch, A. ... ..	New Norfolk
Salier, G., M.H.A. ... ..	Hobart Town
Sharland, W. S. ... ..	New Norfolk

Solomon, Joseph	...	...	...	...	Hobart Town
Stephens, T., M.A., Inspector of Schools	...	...	...	...	"
Story, Dr. J. F.	...	...	...	...	Swanport
Story, Rev. J.	...	...	...	...	Hobart Town
Scott, J. R., M.H.A.	...	...	...	...	New Town
Salier, F. J.	...	...	...	...	Hobart Town
Swan, J., M.H.A.	...	...	...	...	New Town
Smith, P. T.	...	...	...	...	Ross
Shoobridge, W. E.	...	...	...	...	New Norfolk
Travers, S. Smith	...	...	...	...	New Town
Turner, J. A.	...	...	...	...	Hobart Town
Walch, James H. B.	...	...	...	...	"
Weaver, G.	...	...	...	...	"
Whitcomb, G.	...	...	...	...	"
Whyte, Hon. James, M.L.C.	...	...	...	...	"
Wilson, George, jun.	...	...	...	...	Mount Seymour
Wilson, Hon. Sir J. M., M.L.C., President of Legislative Council	...	...	...	...	Hobart Town
Wise, F. H.	...	...	...	...	"
Wilkins, A.	...	...	...	...	England
Webster, A. G.	...	...	...	...	Hobart Town
Wright, Stephen P. H.	...	...	...	...	"
Wilson, George	...	...	...	...	"
Walker, F. T.	...	...	...	...	Rhodes
Westbrook, T.	...	...	...	...	Bellerive
Wilson, J.	...	...	...	...	Ashgrove, Oatlands
Young, Russell	...	...	...	...	Hobart Town

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 29th January, 1874: T. Giblin, Esq., in the chair.

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

The Report for 1873 was then read.

It was moved by Mr. WEBSTER, seconded by Mr. ABBOTT, 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 resolved that they should be re-elected.

It was resolved, on the motion of Mr. WEBSTER, seconded by Mr. ABBOTT, that the Auditors of Annual Accounts, Messrs. H. Cook and J. Macfarlane, be requested to act for the present year.

Mr. Morton ALLPORT said it had been usual at the conclusion of the annual meeting to move a vote of thanks to the Honorary Secretary. This vote had hitherto been treated rather as a formal matter, but on this occasion he desired that it should be a marked expression of the feeling of the Society towards that gentleman. He (Mr. Allport) had been more than a quarter of a century connected with the Society, and had seen its working under four different Secretaries, including Dr. Agnew, and was convinced that the present excellent position of the Society was mainly due



to the efficient manner in which the duties of Hon. Secretary were now carried out. The Fellows of the Society had learned from the Report just read that valuable additions had been made to the Library, and improvements effected in the long room during the past year, but the Report failed to state that it was to the personal liberality of Dr. Agnew that the Society was mainly indebted for such additions and improvements. He would therefore move "That the best thanks of the Society are due to the Honorary Secretary, not only for his past services as Secretary, but also for his valuable contributions to the library and museum during the year."

Mr. ABBOTT seconded, and the motion was unanimously agreed to.

Dr. AGNEW begged to thank the meeting for the very kind manner in which the vote had been proposed and accorded. He was very glad to take this opportunity of again bringing under notice the valuable work of the Curator, Mr. Roblin. The Fellows would, of course, observe the excellent manner in which the "Moa" had been set up, and he might mention that many other skeletons (and these might almost be considered the back bone of a Museum) were in process of preparation. Among these he would specify two human subjects—a "Killer," two Blackfish, a Dugong, a Porpoise, also an Emu and other birds, &c. These would probably all be completed during the year. He had no doubt the Fellows would be gratified with the paragraph in the Report which referred to the railway works in the Gardens. When these works were first spoken of, it would be recollected that great fears were entertained that they would utterly disfigure a great portion of the Gardens, and also destroy

the pretty esplanade—a work which has cost a considerable amount of labour and expense. These fears had proved to be groundless; Mr. Grant, the engineer of the works, with his usual zeal for the objects of the Society, had made every effort to do as little injury as possible, and when the planting and other arrangements in connection with the cutting are carried out as proposed by Mr. Abbott, that which threatened to be a deformity would rather conduce to the beauty of the Gardens, which would therefore lose none of their attractions, but would still continue to be the prettiest resort in the neighbourhood for the townspeople and visitors. One other point in the Report was worthy of special notice. In no year, as far as he (Dr. Agnew) could recollect, had there been so many admissions of Fellows and Members.

## REPORT.

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The session of 1873 was opened by the Bishop of Tasmania, who gave an address on "Natural Science, in connection with Dr. Carpenter's inaugural address at the late meeting of the British Association."

The following papers were read at the various subsequent meetings:—"The transit of Venus in 1874," by F. Abbott, F.R.A.S., F.R.M.S.; "On the Weaver Bird (*Ploceus baya*) of Ceylon," by Lieut. Legge, R.A., F.Z.S., M.R.A.S.; "Notes on the Mersey Coal Measures," by T. Stephens, M.A.; "Regarding the composition and extent of certain tertiary beds in the neighbourhood of Launceston," by R. M. Johnston; "Additional contributions to the phytography of Tasmania," by Baron F. von Mueller, C.M.G., M.D., F.R.S., F.L.S., &c.; "Notes on ancient Symbolisms, Naked eye observations, and Modern Astronomy," by F. Abbott, F.R.A.S., F.R.M.S.; "The law of Weather and Storms," by the Rt. Rev. the Bishop of Tasmania.

In addition to the regular papers, communications on the following subjects have also been received, discussed and published:—"The Tasmanian Aborigines, their weapons, implements," &c., from R. Gatenby, Esq., James Scott, Esq., M.H.A., R. Thirkell, Esq., J. Rollings, Esq., and Dr. Story. "The destruction of Rabbits on the estate of Lowes' Park," from J. Wilson, Esq. "On King's Island," from J. E. Calder, Esq. "Fijian Pottery," from Rev. J. Hutchinson, &c., &c.

The Meteorological Observations have been regularly carried on at the various inland stations

Of those taken at the lighthouses and coast stations, abstracts for 1872 have been prepared and will shortly be in the hands of the printer.

As will be seen by the list appended, many valuable presentations of books have been received from various scientific institutions at home and abroad. To the Trustees of the British Museum the Society is specially indebted for a very large number of valuable works on Natural History. America has been a most liberal contributor to the library by presentations from the Surgeon General's office, the United States Naval Observatory, the Coast Survey office, the Smithsonian Institution, &c., &c.

The thanks of the Society are due to Messrs. W. Crosby & Co., Messrs. Macfarlane Bros., Messrs. Belbin & Dowdell, Mr. H. B. Evans, &c., for the carriage, free of cost, to England and various Colonial ports, of packages of specimens, publications, &c.

Thanks are also due to Messrs. Walch & Sons for the distribution, without charge, of the Society's "Papers and Proceedings" to country members.

Four corresponding, and thirteen ordinary members (of which number two are ladies) have been elected during the year.

#### COUNCIL.

No vacancy has occurred during the year. The list of retiring members has, as usual, been posted in the library for the last fortnight.

#### FINANCE.

The income from all sources was as follows:— Government grant in aid of Museum, £200 ; ditto of gardens, £400 ; subscriptions, £154 10s. ; from

Marine Board, £20 ; sale of plants, &c., at gardens, £87 1s. 9d. ; this with £30 12s. in the hands of the Superintendent of the gardens for payment of wages ; £24 arrears of subscriptions ; and £4 10s. in the hands of the collector will give a total of £920 13s. 9d. The expenditure as per balance sheet amounted to £923 15s. 10d., leaving a balance to debit of £3 2s. 1d.

As the balance to debit at the close of 1872 was £15 1s. 6d., it will be seen that the Society has at last almost emerged from debt. This is highly satisfactory as several expenses of an extraordinary character have been incurred and liquidated since last report. It will be noticed by the present balance sheet that arrears of subscriptions to the amount of £37 10s. have been received ; the sum of £33 is, however, still due. Of this £24 have been fairly calculated upon as safe. It is earnestly to be hoped that members will not allow these small arrears to remain any longer against their names. From neglect or carelessness in this matter the Society has for many years incurred a continuous loss in the item of interest on overdrawn account.

#### GARDENS.

The cutting in connection with the Main Line Railway through the Gardens has been completed during the year, and a substantial ornamental bridge has been thrown across it. When the slopes of the cutting are planted, and the ground contiguous to the line laid out, this promises to become not the least attractive portion of the Gardens.

In consequence of the gang of prison labour having been greatly reduced for many months, very little progress has been made with the new entrance. This work, however, is now in hand with a view to its speedy completion.

In the propagating yards, two small and inex-

pensive houses have been completed, one as a stove heated by a hot water tank, the other as an intermediate house. The conveniences for propagation have hitherto been but limited, and the erection of these two houses was undertaken to supply a want long felt. They have been of great service during the past few months, and will be even more so in future in facilitating the ordinary modes of propagation. Several lattice work screens have also been erected with a view of affording protection to young and freshly potted plants during the summer months.

A plant of *Araucaria imbricata* (The Chili Pine) about eight feet high, but of stunted growth, has produced two cones, from which about one hundred seedlings have been raised. This fact is very interesting, not only on account of the smallness of the plant, but also because it is generally understood that the genus *araucaria* produces its male and female plants on separate plants, and that properly fertilised seed can only be obtained when the plants are growing in proximity to one another. In this case, however, we have a small isolated plant producing flowers of both sexes, and fertile cones from which seedlings have been raised. It is probably the first time *Araucaria imbricata* has produced fertile cones in the Australian Colonies.

Between three and four hundred new plants, many of them of considerable merit, have been introduced.

The estimated number of Visitors was 37,476, being an increase of 12,810 over last year. This increase may partially be accounted for by the interest taken in the construction of the Railway works in the Gardens.

#### MUSEUM.

In reference to the list of presentations it will

be seen that many valuable and interesting specimens have been added to the collection during the year. The chief among these is the very fine skeleton of the "Moa" (*Dinornis giganteus*) of New Zealand, presented by Dr. Haast, the Director of the Museum at Christchurch. This has been articulated and mounted, with his usual skill and ability, by the curator, Mr. Roblin, and forms a very striking addition to the Museum. Besides presenting the large skeleton, Dr. Haast has very kindly been at the trouble of preparing and naming a large collection of Moa bones, the property of the Society, forwarded to him at his request for identification of species. These have all been returned, properly named, and are found to comprise no less than nine species (of the Genera *Dinornis* and *Palapteryx*) of these gigantic birds.

It is almost unnecessary to add that the special thanks of the Society have been forwarded to Dr. Haast for his noble gift, and that he has been made a corresponding member.

We are also greatly indebted to Mr. C. Gould for valuable contributions of mineralogical specimens from this and the neighbouring colonies, and also charts of geological surveys in New South Wales and Queensland.

Other contributors to whom we are much indebted are mentioned in the list of donations.

The large Tasmanian room has been cleared of all the unclassified material. Six additional cases have been erected and are already almost filled with specimens. Additional table cases are much wanted for the exhibition of our conchological collection.

The number of visitors to the Museum was 16,147, being an excess of 1,191 over that of 1872.

*STATEMENT of the Funds of the ROYAL SOCIETY OF TASMANIA for the Year 1873.*

RECEIPTS.	£	s.	d.	£	s.	d.
Annual Subscriptions from 78 Members .. .. .	117	0	0			
Arrears of ditto .. .. .	37	10	0			
Amount received from the Marine Board for clerical assistance in completing Meteorological Returns from Lighthouses, as per agreement .. .. .	20	0	0			
TOTAL ROYAL SOCIETY .. .. .	174	10	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. .. .. .	87	1	9			
TOTAL BOTANIC GARDENS .. .. .	487	1	9			
1874. Jan. 20.—Balance overdrawn at Commercial Bank .. .. .	..	..	62	4	1	
	<hr style="border-top: 1px solid black;"/>			£923	15	10
	<hr style="border-top: 3px double black;"/>					
NOTE.—Dr.—To Overdrawn Balance at Bank .. .. .	..	..	£02	4	1	
<i>Cr.</i> —By Cash in hands of Mr. Abbott .. .. .	£30	12	0			
Ditto in hands of Collector .. .. .	4	10	0			
Subscriptions due .. .. .	24	0	0			
	<hr style="border-top: 1px solid black;"/>			£59	2	0
	<hr style="border-top: 3px double black;"/>					
Balance to Debit .. .. .	..	..	£3	2	1	
	<hr style="border-top: 3px double black;"/>					

Audited and found correct, { JOHN MACFARLANE, } Auditors.  
  { HENRY COOK, }

EXPENDITURE.	£	s.	d.	£	s.	d.
Jan. 16. Balance overdrawn at Commercial Bank, as per Statement for 1872 .. .. .	..	..	65	13	6	
Interest on overdrawn account, as per Bank Book .. .. .	..	..	4	13	9	
ROYAL SOCIETY.—Meteorological Instruments .. .. .	..	..	0	0	0	
Printing and Advertising .. .. .	37	4	3			
Postage, Parcels, &c. .. .. .	4	6	1			
Collector's Commission on Subscriptions received .. .. .	7	11	6			
Messenger for delivering Publications to Members .. .. .	1	0	0			
Clerical assistance for completing Meteorological tables from Lighthouses .. .. .	20	0	0			
Furniture .. .. .	0	6	1			
Library—Books and Stationery .. .. .	58	1	1			
Repayment to Collector, amount paid-in in excess .. .. .	3	0	0			
TOTAL ROYAL SOCIETY .. .. .	125	0	0			132
MUSEUM.—Salary of Curator .. .. .	52	0	0			
Wages of Attendant .. .. .	5	7	6			
Insurance .. .. .	11	0	0			
Purchase and preparation of Specimens .. .. .	3	2	8			
Water Rate .. .. .	3	13	4			
Fuel and Light .. .. .	4	7	2			
Sundries and Petty Cash .. .. .	6	19	11			
Camphor, Spirits of Wine, &c. .. .. .	5	16	1			
Ironmongery .. .. .	0	16	11			
Freight and Carriage of Specimens .. .. .	9	8	0			
Fittings, Repairs, &c. .. .. .	4	6	2			
Timber .. .. .	150	0	0			232
TOTAL MUSEUM .. .. .	258	16	0			17
BOTANIC GARDENS.—Salary of Superintendent .. .. .	13	1	8			
Wages of Labourers .. .. .	4	19	0			
Tools and Repairs .. .. .	3	16	9			
Freight and Carriage of Plants .. .. .	13	2	11			
Stationery and Stamps .. .. .	10	13	3			
Ironmongery .. .. .	33	12	3			488
Flower Pots, £6 14s. Seeds, £3 19s. 3d. .. .. .	..	..	..			1
Sundries, £32 1s. Water Rate, £1 11s. 3d. .. .. .	..	..	..			10
TOTAL BOTANIC GARDENS .. .. .	£923	15	10			



## BOOKS PURCHASED &amp; PRESENTED DURING 1873.

[Presentations marked thus \*]

- Arts, Journal of Society of, Vol. 20, 1871-2.  
 \_\_\_\_\_, Vol. 21, Nos. 1040 to 1091.
- Association, British, Report for 1871.
- \*Akademie der Wissenschaften, Munich, Bavaria. Publications of, 17  
 Parts, 4to. (1857 to 1871). From the Academy.
- \*Builder, The. Sundry parts.
- Weaver Bird of Ceylon, on the, by W. V. Legge, R.A., F.Z.S.,  
 M.R.A.S. From the Author.
- Weather and Storms, The Law of, by the Right Rev. the Lord Bishop  
 of Tasmania.
- \*Society, Zoological, Catalogue of Library. From the Society.  
 \_\_\_\_\_ Ray, The, Volume for 1872. "Tubularian Hydroids."
- \*\_\_\_\_\_, Royal Geographical, Journal of, Vol. 41. From the Society.
- \*\_\_\_\_\_, Proceedings of, Vol. 16, Nos. 3, 4, 5.  
 From ditto.
- \*\_\_\_\_\_, Catalogue of Library. From ditto.
- \*\_\_\_\_\_-Asiatic\_\_\_\_\_, Journal of, Vol. 5, Part 2, Vol. Part 1.  
 From the Society.
- \*Spectrum Analysis, by Schellen. From the Hon. Sir Robert Officer.
- \*Spectrum Analysis, Roscoes. From Rev. G. Clarke.
- \*Transit of Venus in 1874, Papers on. From United States Govern-  
 ment.
- \*\_\_\_\_\_, On the, by F. Abbott, F.R.A.S., &c.  
 From the Author.
- \*Tertiary Beds near Launceston, On the Composition and Extent of, by  
 R. M. Johnston. From the Author.
- \*Transactions of Royal Society of New South Wales, 1870-71. From the  
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- \*Report of Kew Observatory, 1872. From the Committee.
- \*\_\_\_\_\_ of Colonial Museum, Wellington, N.Z., 1871-72. From Dr.  
 Hector.
- \*\_\_\_\_\_ on Geological Exploration in New Zealand. From ditto.  
 \_\_\_\_\_ of British Association, 1871.
- \*\_\_\_\_\_ of Exploration Committee, Royal Society of Victoria. From  
 the Society.
- \*Record, Official, of Contributions of Victoria to International Exhi-  
 bition of 1873.
- \*Statistics of Victoria, 1871. From W. H. Archer, Esq., Registrar-  
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- Society, Royal Asiatic (Ceylon Branch), Journal of, 1871-72. From the  
 Society.
- \*\_\_\_\_\_, Geological, Quarterly Journal of, Nos. 10 to 13. From the  
 Society.

- \*Society, Geological, List of Members, 1872. From ditto.
- \*——, Linnean, Journal of, Vol. 2, No. 55 (*Zoology*) ; Vol. 13, Nos. 67 and 68 (*Botany*). From the Society.
- \*——, Proceedings of, Session 1871-2. Page 39 to end. From ditto.
- \*——, Additions to Library, 1 Vol., June, 1872. From ditto.
- \*——, Zoological, Proceedings of, 1871, Parts 2 and 3 ; 1872, Part 1. From the Society.
- Natural History, Annals and Magazine of, Current numbers.
- Nature, Current numbers.
- \*Observatory, United States Naval, Memoir of. From Rear-Admiral Sands.
- \*Proceedings Royal Society, London. Vol. 20, Nos. 137-8 ; Vol. 21, Nos. 139 to 146.
- \*—— Zoological Society of Victoria, 1873. From the Society.
- Palæontology. By R. Owen, F.R.S.
- \*Patents and Patentees, Victoria.
- \*Phytography of Tasmania, Additional Contributions to. By Baron F. von Mueller, G.M.G., M.D., F.R.S., &c., &c. From the Author.
- \*Meteorological Tables, Monthly, Hobart Town. From F. Abbott, Esq.
- \*——, Swansea. From Dr. G. F. Story.
- \*——, Port Arthur. From A. H. Boyd, Esq.
- \*——, Westbury. From F. Belstead, Esq.
- \*——, Tamar Heads. From R. Henry, Esq.
- \*——, Melbourne. From the Government Observatory.
- \*——, Sydney. From ditto.
- \*——, Brisbane. From ditto.
- Magazine, Country Gentleman's, Vol. 9, Parts 53 to 57 ; Vol. 10, Parts 58 to 60 (O.S.) ; Vol. 1, Parts 1 to 3 (N.S.)
- \*——, Italian Geographical. Part 1. By Guido Cora.
- Metallurgy, Manual of. By J. A. Phillips, F.C.S.
- \*Meteorology ; Quarterly Weather Reports for 1871-2. From Meteorological Office, London.
- \*—— ; Weather Map, 3 Sheets. From ditto.
- \*—— ; Report of Proceedings of Conference at.
- \*——, Leipzig, 1873. From ditto.
- \*—— of Antarctic Regions. From ditto.
- \*Meteorological Office, Canada, 2nd Report of.
- \*——, Committee, Royal Society, Report of, 1872.
- \*——, Returns, Results of. From the Rev. Robert Main, Radcliffe Observatory, Oxford.
- \*—— Tables, Monthly, for 1872. From King's Island, Swan Island, Goose Island, South Bruni, Kent's Group, and Mount Nelson. From the Hobart Town Marine Board.

- Iron, Metallurgy of. By H. Bauerman, F.G.S.  
 Journal, Silliman's American, of Science and Art, Vol. 4, Nos. 22 to 24 ;  
 Vol. 5, Nos. 25 to 31 ; Vol. 6, Nos. 32 and 33.  
 ———, Quarterly of Science, Current numbers.  
 Florist and Pomologist, Nos 59 to 70 inclusive.  
 Fossils, British, Tennant's List of.  
 Gardeners' Chronicle, Current numbers.  
 Geological Terms, Handbook of. By D. Page, F.G.S.  
 Geology, Guide to. By J. Phillips, F.R.S.  
 Gold Seekers' Manual. By Professor D. T. Ansted, F.G.S.  
 \*History, Medical and Surgical, of American War of the Rebellion, 2  
 Vols., 4to., bound cloth. From the Surgeon-General United  
 States Army.  
 \*Cobden, Richard, Mission of. By Lord Hobart. From the Cobden  
 Club.  
 \*Coal Measures, The Mersey. By T. Stephens, M.A. From the  
 Author.  
 \*Crustacea. By J. D. Dana. 2 Vols., 4to. Purchased for the Society  
 by private subscription.  
 \*Essays—1. On Colonial Wines. 2. On Preserved Meats. By the Rev.  
 J. J. Bleasdale, D.D., F.G.S. From the Author.  
 \*Encyclopædia. Chambers's, Complete in 10 Vols. From Dr. Agnew.  
 \*Catalogues, British Museum, 41 Vols, 21 Parts (Natural History).  
 From the Trustees.  
 \*————— British Museum Photographs.  
 \*————— of Diurnal Lepidoptera of Australia. By G. Masters,  
 Australian Museum, Sydney.  
 \*————— of Tertiary Mollusca of New Zealand. By Captain F. W.  
 Hutton. From Dr. Hector, F.R.S., on behalf of the New  
 Zealand Government.  
 \*————— of Land Mollusca of New Zealand. By various Authors.  
 From the same.  
 \*————— (Critical List) of ditto. By E. von Martens, C.M., M.D.,  
 C.M.Z.S. From the same.  
 Conchologia Iconica, Reeve's, parts 296 to 307.  
 —————, Sundry Plates and Letter Press to replace  
 deficiencies.  
 \*Census of New Zealand, 1871. From Registrar-General New Zealand.  
 Canopus, The Decree of : hieroglyphics and translation. From the  
 Hon. Sir Robert Officer.

PRESENTATIONS TO MUSEUM DURING 1873, WITH  
NAMES OF DONORS.

- Aldred, Mr.—A Night Heron (*Nycticorax caledonicus*), shot at South Bruni.
- Askill, Mr.—A Swamp Parrakeet (*Pezoporus formosus*).
- Allport, Mrs. J.—A Coloured Drawing of a Fish (*Cheironectes sp.*) from South Bruni.
- Barclay, Mr. W., Hobart Town.—16 Old Promissory Notes used in the early days of the colony (1823, &c.)
- Brown, Mr. J. W., Survey Department,—Specimen of Serpentine, with Asbestos, &c., from Ilfracombe. Kidney Iron Ore from ditto.
- Belstead, Mr. C.—A Land Rail (*Hypotaenidia phillipensis*).
- Blyth, Mr., Honeywood.—3 Whip Snakes (*Hoplocephalus coronoides*).
- Buckland, Miss J.—4 Pairs Chinese Hooks and Eyes. A Russian Copper Coin.
- Bilton, H., Esq.—A Lizard (*Omolepida casuarinæ*).
- Baynton, Mr. W. E.—A Fossil. (Cast of *Euomphalus*).
- Colvin, Master J.—A Bomb Lance as used in whaling.
- Clarke, Mr. Arthur.—A Stone Axe of Aborigines.
- Coxen, C., Esq., Brisbane.—20 Varieties Land Shells from Queensland, 60 specimens of ditto from Solomon Islands. 62 specimens Marine shells from ditto.
- Crane, Mr. G.—A Model of a "Salmon Trap," as used by the North American Indians.
- Crowther, Mr. H.—A Fijian Female Dress.
- Crooke, Mr., Ballochmyle.—A Young Wallaby from the pouch.
- Castray, Miss.—Algæ and Corallines from Port Arthur.
- Cawthorne Bros., Messrs.—A Double Lamb.
- Cartwright, Mr.—A Malformed Egg of Hen.
- Chichester, C. M.-S., Esq.—A specimen of *Voluta Elliotti*, from Western Australia.
- Calder, J. E., Esq.—2 Skulls of Forester Kangaroo (*Macropus major*).
- Davies, Ven. Archdeacon.—Specimens of Coal and Iron Ore from Rostrevor, Spring Bay.
- Dowling, Mr. A.—Specimen of Carbonate of Lime in crustation on Moss, from Tunbridge.
- Dart, Captain.—Part of Skeleton of a large Turtle.
- Eady, Mr. C.—Two Parrots, said to have been brought from Fiji.
- Exploration Company, Tasmanian Mineral, Hobart Town.—Sample of Tin Ore from Cape Barren Island.
- Edgar, Mr. F. S.—An Old View of the Country round Hobart Town, taken from Mount Nelson.
- Eckford, Mr. F. H.—Copper Ore from Yamba, Queensland.
- Festing, Lieut. H.M.S.S. Blanche.—2 Eggs of *Megapodium Brazieri*, and six shells, from New Britain, &c.

- Freeman, Rev. D.—Specimens of Prawns from New Zealand.
- Foster, J., Esq.—Tin Ore from Mount Bischoff, Tasmania.
- Flexmore, Mr.—A Kingfisher (*Alcyon azurea*).
- Fenton, Captain.—A young Native Tiger (*Thylacinus cynocephalus*).
- Finlay, A., Esq.—A young Brown Trout from Bagdad Creek.
- Giblin, T., Esq.—Tin Ore from Mount Bischoff.
- Gatenby, R., Esq.—Skin of Owl (*Strix delicatulus*). 2 Snakes. A Lizard. Specimen of *Gordius*. A Native Tiger. A very large Wombat.
- Gould, C., Esq., F.G.S.—A Lithographic Portrait of Sir Roderick Murchison. A large collection of Tasmanian Fossils and Minerals. Tin Ores and other Minerals from New South Wales and Queensland. Land and Marine Shells from Flinder's Island, &c., &c., &c.
- Gates, Mr. Edward, Richmond.—Specimens of the Apteryx and Night Parrot of New Zealand.
- Gill, Mr. Rheban.—Palate of Angel Ray.
- Government, The Home.—A Suit of Steel Armour of a man-at-arms of the 16th century.
- Gregory, Mr.—Four young Native Cats from the pouch.
- Girdwood, Mr. D.—Fossil *Ostrea* (?) and *Terebratula* from Greymouth, New Zealand.
- Glover, Mr. C. A., Sorell.—8 Tasmanian Shells.
- Grant, Jas., Esq., Tullochgorum.—The first Gold found in Tasmania, with the original note from Sir W. Denison, giving its sp. gravity, &c. Weight of specimen, 3dw. 9 grains.
- Hissey, Mr.—12 specimens of *Helix Sydneyensis*. A White Rabbit. A Ferret. A Bantam Hen. Two specimens of *Haliotis*. A Silver Pheasant.
- Hutchison, Rev. J.—9 specimens of Fijian Pottery.
- Hull, H. M., Esq.—Sample of Queensland Sugar.
- Hedberg and Harcourt, Messrs.—Specimens of Fire-clay, Bricks, and Tiles from Seymour Coal Mines.
- Hedberg, Mr. O. H.—Twopenny-piece, Geo. III., 1797.
- Harrison, Captain.—Prepared Skull of a large "Killer" (*Orca sp.*), and Jaws of an enormous Shark.
- Hedberg, Mr. O. H.—A Harpoon, much twisted, taken out of a whale killed by the Maid of Erin whaler.
- Hanlon, Mr., River Styx.—A curiously twisted root of Wattle.
- Hull, Mr. H., jun.—6 Copper and 1 Bronze Coin.
- Huston, Dr., New Norfolk.—A "Native Companion," or Australian Crane (*Grus Australiensis*).
- Hull, Mr. F. C.—Iron Ore from Swanport. Limestone Fossils from Tolosa, O'Brien's Bridge.
- Haast, Dr. J., F.R.S., Christchurch, New Zealand.—A Skeleton of the "Moa" (*Dinornis giganteus* var. *maximus*), prepared for articulating.

- Inches, Mr.—Fossiliferous Limestone from Shipwrights' Point, Huon.
- Iles, Mr., Sorell.—An unusually large Egg of Common Goose.
- Johnston, Mr. R. M.—A Collection of Tertiary Fossils from near Launceston.
- James, Mr. H. J.—A Land Rail (*Hypotaenidia philipensis*).
- Lewis, H., Esq., Geelong.—A Collection of Weapons of the Aborigines of the Lower Murray District, Victoria.
- Lewis, Master E.—A pouched Lamprey.
- Low, J. J., Esq., Richmond.—Specimens of Stream Tin, with Gold, &c., from El Dorado, Beechworth, Victoria.
- McArthur, Captain.—Fragments of a "Bomb Lance" after explosion.
- Maclaine, Mrs.—Algæ and Corallines from Clarke's Island, Bass's Straits.
- McArthur, Captain J.—The Figure-head of a New Zealand Canoe.
- McGregor, A., Esq.—A "Cow Fish" (*Delphinus* or *Clymenia* sp.)
- McCoy, Mr.—A Portuguese Copper Coin.
- Meredith, Hon. C.—Tin Ore from Mount Bischoff.
- Macpherson, D., Esq.—A young Kangaroo Rat from the pouch.
- Newman, Mr. J.—A large species of *Mantis* from Adelaide.
- Nevin, Mr., Kangaroo Bottom.—A piece of Peat, or Turf, used as fuel in Ireland and elsewhere.
- Ogilvie, Mr. A. J., Circular Head.—Skull of *Delphinus* sp.
- Priest, Mr. T.—A Promissory Note for 50 Guineas, London, 1809.
- Piguenit, Mr. F. L.—Two Butterfly Gurnards.
- Parsons, The Rev. Canon.—3 Silver and 7 Copper Coins.
- Randall, Mr. A.—A Rock specimen from Cascades.
- Shrimpton, Miss E., Hamilton.—4 Plovers' Eggs.
- Stewart, Mr., New Town.—A Butterfly Gurnard.
- Stopford, Mr.—A curious excrescence on Root of Black Wattle.
- Simpson, Mr.—An Exploded Bomb Lance, and the Ear Bone of a Whale found on Bird Island.
- Swan, J., Esq., M.H.A.—Two Fish from Derwent.
- Simmons, Rev. J. W.—Specimen of Tin from the smelting works of Bolitho & Co., Penzance, Cornwall.
- Scott, J., Esq., M.H.A.—A large number of Stone Implements used as knives by the Aborigines of the colony. Found on the Mount Morriston Estate.
- Sharland, W. C., Esq., New Norfolk.—Sample of Coal from bed of Derwent at Charlmont.
- Townsend, Mr. J., Forcett.—A curiously twisted stem of a Climbing Plant from Bream Creek.
- Walpole, E. A., Esq.—A hollow spherical mass of Iron Ore from Hope Island, Port Esperance.
- Wilson, F. L., Mount Nassau.—Samples of Epsom Salts and Common Salt from Caves in that locality.
- Williams, Mr., "Kestrel."—Iron Ore from East Coast.

- Walch, Messrs.—Slates from Piper River, Tasmania.  
 Webster, A. G., Esq.—Specimen of Carbonate of Lime and Maganese  
 from Beechworth, Victoria.  
 Watson, Mr., Muddy Plains.—A Musk Duck (*Biziura lobata*).  
 Wintle, Mr. S. H.—Mineral Specimens from various parts of Tasmania.  
 Watson, Mr., Kangaroo Point.—A young Native Cat (*Dasyūras  
 viverrinus*).  
 Young, Mr., Howrah.—A Sacred Kingfisher (*Halcyon sanctus*).

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DONATIONS OF PLANTS AND SEEDS RECEIVED AT THE  
 ROYAL SOCIETY'S GARDENS DURING THE YEAR 1873.

- January 25th.—From Ch. Huber, France.—25 packets seeds.  
 March 1st.—From Messrs. Hugh Low & Co., Clapton, London.—One  
 box tree scions.  
 March 3rd.—From Ch. Huber, France.—Collection Quercus seeds.  
 April 7th.—From the Botanic Gardens, Christchurch, New Zealand.—  
 A collection of Veronicas.  
 June 5th.—From Wm. Bull, New Plant Merchant, King's Road,  
 London.—83 packets seeds.  
 June 17th.—From the Botanic Gardens, Christchurch, New Zealand.—  
 One case containing 70 plants.  
 July 25th.—From Mr. G. Brunning, Nurseryman, St. Kilda, Mel-  
 bourne.—One case containing 74 plants, 11 varieties scions.  
 July 30th.—From Dr. J. D. Hooker, Royal Gardens, Kew.—Seeds of  
 Cedmo Deodara.  
 August 30th.—From Ch. Huber, France.—12 varieties seeds Primula  
 Linensis, 1 Mixed Cineraria.  
 August 30th.—From the Botanic Gardens, Adelaide.—64 varieties scions,  
 Ornamental Trees, and Shrubs.  
 September 14th.—From the Royal Gardens, Kew.—Seeds of Cedrus  
 Deodara.  
 September 14th.—From Ch. Huber, France.—Seeds of Morus Alba.  
 September 18th.—From S. P. H. Wright, Esq.—7 packets seeds  
 received from India.  
 September 11th.—From T. Stephens, Esq.—4 packets Coniferæ Seeds  
 from India.  
 October 22nd.—From Ch. Huber, France.—Seeds of Morus alba van  
 feuille de rose.  
 October 31st.—From Baron von Mueller, Government Botanist,  
 Victoria.—Seeds of Bentickia Candassava, a fine rare Palm.  
 November 20th.—From Wm. Bull, New Plant Merchant, London.—9  
 varieties Vegetable Seeds from India.

- November 25th.—From the Botanic Gardens, Christchurch, New Zealand.—1 case containing 50 plants.
- November 27th.—From Baron Ferd. von Mueller, Melbourne.—Seeds of a Bamboo (*Bheesa transanarica*).
- November 29th.—From Mr. C. F. Creswell, Seedsman, Hobart Town.—52 packets seeds (Imported.)
- December 20th.—From Mr. C. Hollinsdale, Seedsman, Hobart Town.—11 packets seeds (Imported.)



PLANTS AND SEEDS DISTRIBUTED FROM THE ROYAL SOCIETY'S GARDENS DURING THE YEAR 1873.

- January 27th.—To the Royal Gardens, Kew.—13 species Tasmanian Orchideæ.
- January 30th.—Per “Wagoola,” to Mr. Wm. Bull, London.—8 Tree Ferns.
- February 18th.—Per “Harriet McGregor,” to Jean Verschaffelt, Ghent, Belgium.—2 cases containing 25 Tree Ferns.
- March 24th.—To Ch. Huber, France.—11 packets seeds of Tasmanian Plants.
- April 15th.—To the Botanic Gardens, Christchurch, New Zealand.—One case containing 57 Plants.
- May 8th.—Per “Wynaud,” to Mons. Jean Verschaffelt, Ghent, Belgium.—2 Large Tree Ferns.
- July 7th.—To W. G. Brunning, St. Kilda Nurseries, Melbourne.—100 packets Seeds.
- July 12th.—To Mr. Wm. Bull, King's Road, Chelsea, London.—6 packets Seeds.
- August 4th.—To Mr. G. Brunning, St. Kilda Nurseries, Melbourne.—One case containing 100 Plants.
- August 10th.—To the Canterbury Acclimatisation Society, New Zealand.—80 packets Seeds.
- September 6th.—To the Botanic Gardens, Christchurch, New Zealand.—One case containing 61 Plants.
- September 6th.—To Mr. E. B. Heyne, Seedsman, Adelaide.—One packet Seeds.
- September 6th.—To the Botanic Gardens, Adelaide.—1 packet containing Seeds of Coniferæ.
- October 15th.—To Justin McC. Browne, Esq., for transmission to New Caledonia.—30 packets Seeds.



PLANTS SUPPLIED FROM THE ROYAL SOCIETY'S GARDENS  
DURING 1873 FOR PLANTING PUBLIC PLACES.

- April 10th.—For the grounds of the Telegraph Office, Macquarie-street.—  
6 Plants.
- June 24th.—For the grounds of the Church of England, Longford.—  
123 Plants.
- June 24th.—The grounds of the Church of England, Bothwell.—114  
Plants.
- June 25th.—The grounds of the Church of England, Avoca.—25 Plants.
- June 25th.—The Hobart Town Cemetery, Cornelian Bay.—373 Plants.
- June 28th.—The Launceston and Western Railway Station, Launceston.—  
120 Plants.
- July 4th.—The Cascade Burying Ground, Macquarie-street.—95 Plants.
- July 22nd.—To the grounds of the Church of England, New Norfolk.—  
50 Plants.
- July 28th.—For St. David's Cemetery.—12 Plants.
- July 29th.—The Friends' Burying Ground.—36 Plants.
- August 11th.—For the grounds of the Church of England, Richmond.—  
136 Plants.
- August 14th.—The grounds of the Church of England, Green Ponds.—  
101 Plants.
- August 25th.—For St. David's Cemetery.—48 Plants.
- September 20th.—The grounds of Sandy Bay Public Cemetery.—200  
Plants.

F. ABBOTT, JUN.

PLANTS INTRODUCED INTO THE ROYAL SOCIETY'S  
GARDENS, 1873.

Abutilon Thompsonii	Fagus Solandri
Æsculus flava	Fraxinus lentiscifolius
Æthionema grœca	"    variegatus
"    saxatile	Fudisia Kirkii
Amelanchier botryapium	Godetia Dunnettii
Ancusa arvalis	"    reptans insignis
Andropogon Schamperi	Grammanthes gentianoides
Anemone pavonia	Gynerium argenteum nanum
Angelonia grandiflora	"    "    roseum
Aristolelia fruticosa	Hesperis tristis
Arthropodium candidum	Hibiscus mutabilis fl. plœno
Astelia grandis	"    purpurens striatus
Astragalus Marianus	Iberis giberaltarica
Bambusa pubescens	"    ciliata
"    variegata stricta	Ipomœa ficifolia
Bentinckia candasava	"    pentaphylla
Calixena parviflora	Iris chinensis
Campanula grandiflora	"    fœtidissima variegata
"    medium alba	"    marœoides
"    calycanthema	"    ochroleuca
Canna Bihorella	"    spuria
"    Pintelmanni	Juniperus Virginiana variegata
"    Houltii	Kennedya bimaculata
"    Zebrina	"    comptomana
Cannavallia Bonariensis	"    longiracemosa
Carmichælia nana	"    Marryattœ
Cemia turbinata	Lasiandra macrantha
Centaurea dealbata	Linaria alpina
"    Fenzlii	Linum roseum
Celmisia spectabilis	Leptosiphon androsaceus aureus
Chamæpeuce dicantha	"    densiflorus luteus
Chorozemia macrophylla	Mesembryanthemum scabrum
"    noria	Morus Cedrona
Cocculus palmatus	"    calcar—galli
Colchichum tessellatum	"    hispanica
Cordyline pumilio	"    japonica
Corokia budelleoides	Nelumbium Leichtlinii
Cosmidium engelmannii	Nicotiana cavoto
Cotoneaster florabunda	Olearia dentata
"    flava	"    ilicifolia
Cuphea sileneoides	Opuntia Tuna
Cupressus africana	Papaver setigerum
Daphne Gneorum superbum	Pentstemon (several)
Dianthus deltoides	Peperoma Urvilleana
"    nitidus	Photinia serrulata variegata
"    vicidus	Pinus Lambertiana
Diasia graminifolia	"    Beardsleysii
Dicentra chrysantha	Pittosporum Bucannanii
Dictyotemum ægyptiacum	Picea firma
Dracophyllum longifolium	Rhodochiton volubile
Echeveria metallica	Rhododendron Massonii
Erica giloa	Robinia latisliqua
"    ventricosa superba	Salix moschata
Eryngium criticum	Scutellaria Bolandieri
Fagus fusca	Sedum glaucum

Sedum palustre latifolia  
 Senecio Huntii  
 „ rotundifolia  
 „ sciadophyllus  
 Silene alpestris  
 Sophora tomentosa  
 Statice Thuinii  
 Tilia pendula  
 Thymus vulgaris limonium  
 Ulmus campestris variegatus  
 „ montana fastigiata  
 „ „ major  
 „ planifolia  
 „ viminalis  
 Veronica Hectori  
 „ traversi  
 Verbena various  
 Weigela purpurata  
 Widringtonia juniperoides  
 Zenobia speciosa  
 „ „ florabunda

## ROSES.

Belle Lyonnaise  
 Eugene Scribe  
 Exposition de Brie  
 Felix Genero  
 Janne d'Or  
 Lamarque  
 Lord Herbert  
 Madame Fillion  
 Princess Beatrice  
 Souvenir d'Elise Varden

## PELARGONIUM.

Bertha  
 Bonnie Charlie  
 Cardinal  
 Clarabel  
 Eclipso  
 Gem of the Season  
 Gustave Mallet  
 Harold  
 Lady Edith  
 Prince Noir  
 Princess Teck

## GERANIUM.

Tricolor L'Empereure

Tricolor Italia Unita  
 Double L'Thibaut  
 „ Le Veseuve  
 Double Sparkhill Beauty  
 Single Willsii rosea

## FUCHSIAS.

Alliance  
 Enchantress  
 Wave of Life

## CHRYSANTHEMUMS.

Chromotella  
 Gurnsey Nugget  
 Meyerbeer  
 Mrs. W. Morgan  
 Norma  
 Yeddo Lilac

## GRAPE VINES.

Alicant  
 Black Muscatel Alexandria  
 Calabrian Raisin  
 Graham's Muscatel Muscadine  
 Sultana

## APPLES.

Anne Elizabeth  
 Burchardt Reinette  
 Cobham  
 Eve Apple  
 Fairy  
 Foxley  
 Hoary Morning  
 Maiden's Blush  
 Stamford Pippin

## PEAR.

Bezi Mai

F. ABBOTT, JUN.