NOTES

FROM THE

ROYAL BOTANIC GARDEN, EDINBURGH.

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1919-1921.

With Plates CLXV-CLXIX, and Seventeen Figures in the Text.



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THE ROYAL BOTANIC GARDEN, EDINBURGH.

THE Royal Botanic Garden, Edinburgh, is one of three Gardens maintained by the State in the United Kingdom, the others being the Royal Gardens at Kew in England, and the Glasnevin Garden at Dublin in Ireland. It occupies an unequally-sided quadrilateral area of 57·648 acres (bounded upon all sides by public roads and dwelling-houses) on the north side of Edinburgh—about a mile from the shore of the Firth of Forth. Its highest point, at Inverleith House—the official residence of the Regius Keeper of the Garden—towards the north-west, is 109 feet above sea-level, and thence the ground falls away on all sides. The lowest point —a depression 48 feet above sea-level, with an east and west trend through the middle of the Garden—is the site of an old bog, and the ground rises again to the south of the depression. The surface soil is generally alluvial sand resting on clay at considerable depth. In the lower part of the area the clay comes to the surface.

There are two entrances to the grounds—one upon the east side from Inverleith Row into the **Garden,** the other upon the west side from Arboretum Road into the **Arboretum.** The entrance to the **Laboratories, Lecture Halls, Library,** and to the **Office** for Garden business is from Inverleith Row.

The **Garden** is open daily from **9 a.m.** on **Week-days** and from **11 a.m.** on **Sundays** until sunset.

The **Plant-Houses** are open from **1 p.m.** until **5 p.m.,** or until sunset if this be earlier.

The **Museum** is open on **Week-days** from **9 a.m.** until **5 p.m.** and on **Sundays** from **1 p.m.** until **5 p.m.**

The **Herbarium** is open on **Week-days** from **9 a.m.** until **5 p.m.,** excepting **Saturday,** when it is open until **1 p.m.**

The **Library** is open on **Week-days** from **9 a.m.** until **5 p.m.,** excepting **Saturday,** when it is open until **1 p.m.**

The **Office** for transaction of business with the Public and with Tradesmen is open on **Week-days** from **9 a.m.** until **5 p.m.,** excepting **Saturday,** when it is open until **1 p.m.**

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Staff of the Royal Botanic Garden, Edinburgh, at January 1921.

ESTABLISHMENT.

Regius Keeper	Isaac Bayley Balfour, K.B.E., M.A., M.D., F.R.S.
Assistant Keeper	William Wright Smith, M.A., F.L.S., F.R.S.E.
Assistant in Herbarium	William Edgar Evans, B.Sc.
Assistant in Laboratory	Matthew Young Orr.
Assistant in Library	James Todd Johnstone, M.A., B.Sc.
Assistant in Museum	Harry Frank Tagg, F.L.S.
Assistant in Studio	Robert Moyes Adam.
Head Gardener	Robert Lewis Harrow, F.R.H.S.
Plant Propagator	Laurence Baxter Stewart.
Typist	Jean Brockie.
Do.	Elizabeth Murdison Reid.
Medical Officer	Disney Cran, M.D.

Assistant Head Gardener	David Ramsay Cliver.
Foreman of Arboretum	Charles Lamont.
Foreman of Glass Department	James John Campbell.
Foreman of Herbaceous Department	Alexander M'Cutcheon.

RULES for the Royal Botanic Garden and Arboretum in connection with the Regulations prescribed by "The Parks Regulation Act, 1872."

1. No unauthorised Person may ride or drive in this Garden or in the Arboretum, and no Wheelbarrow, Truck, Bath-chair, Perambulator, Cycle, or other Vehicle or Machine, is allowed to enter, except with the written permission of the Keeper. Children under ten years of age are not admitted unless accompanied by a Parent or suitable Guardian.

2. No Horses, Cattle, Sheep, or Pigs are allowed to enter.

3. No Dogs are admitted.

4. No Bags, Baskets, or Parcels, no Flowers, and no implements for games may be brought in; Artists and Photographers may not bring in their Apparatus without written permission from the Keeper.

NOTE.—*The foregoing Rules shall not apply to persons going to or leaving Inverleith House by the road leading from the Arboretum Road Gate to the House.*

5. Visitors are to enter and leave the Plant-Houses by the Doors according to the Notices affixed thereon.

6. Smoking is not allowed in the Plant-Houses.

7. No Person shall touch the Plants or Flowers.

8. Picnics and luncheon parties are not allowed.

9. No unauthorised Person shall Drill or practise Military Evolutions or use Arms or play any Game or Music, or practise Gymnastics, or sell or let any Commodity.

10. No unauthorised Public Address may be delivered in the Garden or Arboretum. No Performance or Representation either spoken or in dumb show shall be given in any part of the Garden or Arboretum, unless by permission of the Commissioners of His Majesty's Works and Public Buildings. No Person shall use any obscene, indecent, or blasphemous words, expressions, or

gestures, or do any act calculated to provoke a breach of the Peace, in the course of, or in connexion with, any speech, address, performance, recitation, or representation. No money shall be solicited or collected in connexion with any performance, recitation, or representation, except by permission of the Commissioners of His Majesty's Works and Public Buildings.

11. Large parties must be broken up to prevent crowding.

12. Climbing the Trees, Railings, or Fences is forbidden.

13. Birds'-nesting, and taking, destroying, or injuring Birds or Animals are forbidden.

14. The distribution of Handbills, Advertisements, and other Papers by the Public is forbidden.

Dated the 28th day of April 1904.

Sealed with the Common Seal of the Commissioners of His Majesty's Works and Public Buildings.

SCHOMBERG K. M'DONNELL,
Secretary.



Historic Notice.

IN the year 1670 a small portion of ground, known as St. Ann's Yards, lying to the south of Holyrood House, and usually let to market gardeners by the Hereditary Keeper of Holyrood House, was occupied by two eminent Edinburgh physicians, **Andrew Balfour** and **Robert Sibbald**, for the making of a Physic Garden, and **James Sutherland** was appointed to the "Care of the Garden." This was the foundation of the Royal Botanic Garden of Edinburgh, which is therefore, after that of Oxford (founded in 1632), the oldest in Great Britain. The Garden was stocked with plants from the private Garden of Dr. Andrew Balfour, in which for some years he had been accumulating medicinal plants, and also in great measure from that at Livingston in West Lothian, the laird of which, Patrick Murray, was much interested in the growing of useful plants. Shortly thereafter, but at what precise date has not yet been ascertained, Sutherland became custodian of the Royal Garden, which lay on the north side of the Palace, and it became a Physic Garden for instruction, whilst the original plot in St. Ann's Yards was, apparently, given up.

In 1676 the same physicians acquired from the Town Council of Edinburgh a lease of the Garden of Trinity Hospital and adjacent ground for the purpose of a Physic Garden in addition to the Garden already existing at Holyrood, and they appointed the same James Sutherland (1639?–1719) to be "Intendant" of this Garden. The site of this Garden, which for convenience of reference may be called the Town's Botanic Garden, was the ground lying between the base of that portion of the Calton Hill upon which the prison is built and the North Bridge, and it is now occupied by a portion of the Waverley Station of the North British Railway. The name Physic Garden attached to a street in the vicinity is a reminiscence of the existence of the Garden at this spot.

About 1702 another Botanic Garden was established in Edinburgh in the ground immediately adjacent to the College

Buildings, apparently on the site of the present South College Street. This was the College Garden, and of it James Sutherland became also custodian.

Thus in the early years of the eighteenth century there were in Edinburgh three distinct Botanic or Physic Gardens—one at Holyrood, the Royal Garden; one around Trinity Hospital, The Town's Garden; and one beside the College, the College Garden—all under the care of James Sutherland.

Sutherland from the first made use of the Royal Garden for giving "instruction in Botany to the Lieges," and received a royal warrant appointing him Botanist to the King in Scotland, and empowering him to "set up a Profession of Botany" in this Garden. When the Town's Garden was created the Town Council appointed him to lecture on Botany as Professor in the Town's College, now the University of Edinburgh. In 1683 he published his "Hortus Medicus Edinburgensis, or a Catalogue of the Plants in the Physical Garden at Edinburgh," from which and from other published notices we learn that between two and three thousand plants were in cultivation. There are no data available from which to determinate how these plants were distributed between the several Gardens at the date of publication of Sutherland's catalogue.

In 1706 Sutherland resigned the care of the Town's Garden and the College Garden as well as his Professorship in the University, but, remaining King's Botanist, he retained the care of the Royal Garden at Holyrood. Charles Preston (1660–1711) was appointed his successor by the Town Council, and there were thus established rival Gardens and rival Professors of Botany in Edinburgh. Charles Preston was succeeded in 1712 in his offices by his brother George Preston (1659–1749). Neither of the Prestons had ever the care of the Royal Garden.

Sutherland's appointment as King's Botanist, Keeper of the Royal Garden, and Regius Professor of Botany was held during the pleasure of the Sovereign, and on the death of Queen Anne in 1714 he was not continued in office by George I.

In 1715 **William Arthur** (1680–1716) received a commission as successor to Sutherland, but as he was implicated in an unsuccessful Jacobite plot to seize the Castle, he did not hold the office long.

He was succeeded in 1716 by **Charles Alston** (1685–1760).

In 1724 the College Garden, having fallen into disorder, was turned to other uses ; and in 1729, George Preston having retired, the Town Council appointed, as his successor in the charge of the Town's Garden and as Professor of Botany in the University, Charles Alston, who as King's Botanist had already the charge of the Royal Garden and was Regius Professor of Botany. Through him, after separation for a quarter of a century, the Royal Garden and the Town's Garden were again combined under one Keeper, and the Regius Professorship of Botany and the University Professorship were similarly united. They have so continued to the present time.

In 1763, the Royal Garden and the Town's Garden proving too small and otherwise unsatisfactory, **John Hope** (1725–1786), who had succeeded Alston in his offices in 1761, proposed a transference of the two to a more congenial site in which they could be combined. At first it was intended to secure ground to the south of George Watson's Hospital—the area upon which much of the present Royal Infirmary is built—but this not being possible, five acres of ground to the north side of Leith Walk, below the site now occupied by Haddington Place, were chosen. As Hope proposed to transfer the collections in the Royal Garden to the new Garden he was able to secure the support of the Treasury to his scheme, and the selected ground was leased in name of the Barons of Exchequer. At the same time the Town Council agreed to contribute £25 annually to the support of the Garden, the sum being the amount of rent expected from the letting of the old Town's Garden. The plants from both Gardens were transferred to the ground at Leith Walk, and from this date there has been only one Botanic Garden in Edinburgh. The site thus secured for the Garden proved, however, only a temporary one.

Daniel Rutherford (1749–1819), who in 1786 succeeded Hope in his offices, cast about him for a spot in which more ground would be available for the extension of the Garden ; and eventually in 1815 nine and a half acres of the land lying to the east of Holyrood Palace, and forming the ground of Belleville or Clockmill, was fixed upon as a site. This selection gave rise to controversy, which was prolonged, and Rutherford

died before any arrangements for the transference of the Garden had been made.

Robert Graham (1786–1845), his successor, appointed in 1820, preferred the more open site of the Inverleith property which the Garden now occupies, and fourteen acres of the Field or Park of Inverleith, known as Broompark and Quacaplesink, were purchased by the Barons of Exchequer from Mr. James Rocheid, its owner, in 1820, the lease of the Leith Walk Ground being sold. By 1823 all the plants had been transferred to the new Garden.

In 1858, during the Keepership of **John Hutton Balfour** (1808–1884), who succeeded Graham in 1845, a further addition, by purchase from the proprietor of Inverleith, of a narrow belt of two and a half acres was made to the Garden on the west side; and in 1865 the Caledonian Horticultural Society having resigned to the Crown its lease of the ten acres of adjoining ground which it had occupied since 1824 as an experimental Garden, this ground was also made part of the Botanic Garden. Finally the present area of the Garden was completed in 1876, when the Town Council purchased from the Fettes Trustees twenty-seven and three-quarter acres of Inverleith property on the west side of the Garden and transferred it to the Crown for the purpose of making an Arboretum in connection with the Garden; the Crown at the same time purchased Inverleith House and two and a half acres of additional ground.

In 1879, **Alexander Dickson** (1836–1887) became Queen's Botanist, Regius Keeper and Professor, and held these appointments until his death in 1887. During his term of office the Arboretum was opened to the public.

Regius Keepers (R.K.)
from the date of
Foundation of the Garden.

JAMES SUTHERLAND . . .	Born 1639? R.K. 12th January, 1699.* Not confirmed, 1714. Died 24th June, 1719.
WILLIAM ARTHUR . . .	Born September, 1680. R.K. 10th May, 1715. Died 1716.
CHARLES ALSTON . . .	Born 24th October, 1685. R.K. 30th June, 1716. Died 22nd November, 1760.
JOHN HOPE	Born 10th May, 1725. R.K. 13th April, 1761. Died 10th November, 1786.
DANIEL RUTHERFORD . .	Born 3rd November, 1749. R.K. 20th December, 1786. Died 15th December, 1819.
ROBERT GRAHAM . . .	Born 7th December, 1786. R.K. 31st January, 1820. Died 7th August, 1845.
JOHN HUTTON BALFOUR . .	Born 15th September, 1808, R.K. 8th November, 1845. Retired, 1880. Died 11th February, 1884.
ALEXANDER DICKSON . .	Born 21st February, 1836. R.K. 28th April, 1880. Died 30th December, 1887.
ISAAC BAYLEY BALFOUR . .	Born 31st March, 1853. R.K. 5th April, 1888.

* This is the date of a Royal Warrant from William III., and no earlier one has been found.

Principal Gardeners (P.G.) from the Year 1756.

(The Names of those preceding Williamson are not yet known.)

JOHN WILLIAMSON . . .	P.G. 1756? Died September, 1780.
MALCOLM M'COIG . . .	P.G. 1st January, 1782? Died 25th February, 1789.
ROBERT MENZIES . . .	P.G. 1st October, 1789. Died 22nd January, 1800.
JOHN MACKAY . . .	Born 25th December, 1772. P.G. February, 1800. Died 14th April, 1802.
GEORGE DON	Born October, 1764? P.G. 1st October, 1802. Resigned 31st December, 1806. Died 15th January, 1814.
THOMAS SOMMERVILLE . .	Born 1783? P.G. 1807? Died 17th March, 1810.
WILLIAM M'NAB . . .	Born 12th August, 1780. P.G. April, 1810. Died 1st December, 1848.
JAMES M'NAB. . . .	Born 25th April, 1810. P.G. 1st January, 1849. Died 19th November, 1878.
JOHN SADLER	Born 3rd February, 1837. P.G. 13th January, 1879. Died 9th December, 1882.
ROBERT LINDSAY . . .	Born 7th May, 1846. P.G. 3rd March, 1883. Retired 31st March, 1896. Died 24th September, 1913.
ADAM DEWAR RICHARDSON .	Born 12th September, 1857. P.G. 1st April, 1896. Resigned 31st May, 1902.
ROBERT LEWIS HARROW. .	Born 26th March, 1867. P.G. 1st June, 1902.

Features of the Garden.

THE method through which the Garden was built up by successive additions resulted in an absence of combination between its several parts, in great measure a consequence of want of adequate funds to make the necessary alterations in the grounds. During the past thirty-two years, in which the Garden has been wholly under the administration of the Commissioners of H.M. Works, the bringing about of this combination has been in progress. The work is not yet completed, and the Plan of the Garden which is attached to this sketch shows the area of the Garden as it is laid out at this date—January 1921. Future editions will show further changes as the work of reconstruction proceeds.

From its foundation the Botanic Garden has been devoted to the teaching of Botany, and its usefulness in this respect has determined the laying out of its area.

Herbaceous Garden.—A considerable space is occupied by a collection of herbaceous plants arranged for study in natural orders.

Rock Garden.—There is an extensive rockwork upon which alpine and rarer herbaceous plants are cultivated.

Arboretum.—The whole of the western area of the Garden is in process of arrangement as an Arboretum of trees and shrubs, and the positions of some of the chief genera are indicated on the plan. The Coniferæ are now placed in the ground adjacent to the Rock Garden.

Herbaceous Border.—Along the North Boundary of the Arboretum a mixed Herbaceous Border has been planted.

The **Plant-Houses** are still in process of reconstruction. So far as they have been rearranged at the present time they consist of a long range to the north of the herbaceous collection, composed of a Central Green-house (**C**), from the sides of which two Corridors run east and west. In the Entrance Porch (**D**) to the Central Green-house is a collection of Insectivorous Plants. From the Eastern Corridor two houses project to the south—one (**A**) occupied by plants of Dry Regions, the other (**B**) containing

Economic Plants of both Tropical and Temperate Regions. Ending the Corridor is a house (**AA**) occupied by Rhododendrons and other Temperate Shrubs and Trees; opening from it are houses (**BB** and **CC**) in which an indoor rockery has been built for Rock Plants which do not thrive in the open. To the south side of the Western Corridor are attached two houses—one (**E**) for Orchids and one (**F**) for Plants of Tropical and Warm Regions. The western end of the Corridor opens into a domed house (**G**) for Ferns of Tropical Regions which are planted out, and attached to it are two houses running southwards, one of which (**H**) is occupied by Tropical Plants, and the other (**I**) is used for Heaths and Hardwooded Plants. From the northern wing of this domed house opens a house (**J**) devoted to monocotylous Plants of Tropical and Warm Regions, specially Aroids, Scitamineæ, Liliaceæ, and Amaryllidaceæ. Out of this opens the house (**K**) for Bromeliads; and in another house (**L**) opening from this are Pitcher Plants. Behind the western end of the Front Range there is a Temperate House (**M**) for Palms, Tree-Ferns, and Coniferæ, and a Palm-House (**N**).

Adjoining Inverleith Row is a group of buildings including the **Museum** (**O**), the **Laboratories** (**P**), the **Lecture Hall** (**Q**), the **Library** (**R**), and the **Office** (**Y**), for transaction of business with the Public.

The **Museum** contains a series of exhibits illustrating the form and life-history of plants, and these are arranged so as to facilitate their use in teaching.

The **Library** contains over sixteen thousand volumes. The leading botanical and horticultural periodicals are taken and may be consulted like the other books by the public. Books are not lent from the Library.

Herbarium.—In the southern portion of the Garden is the Herbarium (**S**). It contains a fair representation of the Floras of the world.

Ladies' Cloak-Rooms are at (**T**) and (**T**). **Gentlemen's Lavatories** will be found at (**V**) and (**V**).

From the higher ground of the Arboretum—at the point marked (**X**) on the plan—a fine panoramic view of the City of Edinburgh, flanked on the east by Arthur's Seat, and on the west by the Pentland Hills, is obtained.

Teaching in the Garden.

IN the year 1892 the Board of Agriculture, then recently established in England, assigned a small grant to the Royal Botanic Garden towards the institution of a Course of Instruction in the Sciences underlying the Practice of Horticulture and Forestry for the benefit of young men and women desiring to become Gardeners and Foresters. The fact deserves record, because it marks the introduction in Scotland of a systematised effort to provide scientific instruction to practical men in Gardening and Forestry.

The Course of Instruction has been carried on since. The following schedule—copies of which may be obtained by application to the Regius Keeper—indicates the terms upon which young men and women are at present admitted to the Course :—

Admission of Probationers.

1. The First Commissioner of His Majesty's Works is willing to consider applications from young men and women intending to become Gardeners or Foresters who may wish to serve for a period in the Royal Botanic Garden, Edinburgh.

2. The number of young men and women who can be so admitted is limited.

3. Such entrants will be in the position of Probationers, as a special class in the service of the Garden. Their work will be such as may be assigned to them, and they will work under all the regulations in force in the Garden.

4. Applicants must be unmarried and not over 25 years of age.

5. Each Applicant must furnish a medical certificate of fitness and a recommendation and certificate of character from a person of position to whom the Applicant is well known, and if the Applicant is or has been previously in a situation, a certificate from the present or last employer must be forwarded. Applicants who have had practical experience in Gardening or Forestry must state the amount of this and also if they have had experience of cultivation of plants under Glass.

6. Probationers will have the opportunity of attending a Course of Instruction in the Sciences underlying the practice and

the principles of Horticulture and Forestry free of charge, and they must attend the course, and also use the Library and Reading Room of the Garden. The subjects of Instruction, which are arranged in a curriculum extending over from two and a half to three years, are :—Botany, Chemistry, Entomology, Geology, Meteorology, Physics, Surveying and Mensuration, Field Engineering, Bookkeeping, Horticulture, and Forestry, and these are taught practically as far as possible.

7. At the conclusion of the Course of Instruction the Probationer will in ordinary course give place to a new entrant.

8. Any Probationer who does not show satisfactory progress in studies, or who does not give satisfaction otherwise, will be removed.

9. A grant in aid (subsistence allowance) will be given to each Probationer. The amount given to a Probationer at admission will depend upon his or her age, experience, and capacity. The minimum will be at the rate of ten shillings a week, and the maximum at the rate of twenty-one shillings a week. In addition there is at this date (1921) a war-bonus. Probationers who receive at entrance less than the maximum may, after admission, receive increments in relation to fitness and merit alike in the work of the Garden and in the Course of Instruction.

10. Holiday leave to the amount in all of eight working days in the year, in addition to Christmas Day, New Year's Day, Victoria Day, Spring and Autumn Holidays, is allowed after six months' service.

11. Probationers may be called upon to work on Sundays, and will receive remuneration for such work on a recognised scale.

12. Men Probationers will wear when at work a grey flannel shirt with turn-over collar of the same material, and a blue serge suit of clothes ; in the Glass and Herbaceous Departments an apron after pattern at the Garden must be worn.

13. Applicants must distinctly understand that the times of duty of Probationers are such as may be necessary, that admission as a Probationer is only an ordinary weekly hiring subject to a week's notice from any day, and subject to instant dismissal in case of misconduct, with subsistence allowance up to date of dismissal only, and does not entitle to any superannuation or to any compassionate or other allowance at the termination thereof,

excepting such allowance or gratuity as might be awarded under the Superannuation Act, 1887 (Secs. 1 and 4), or any Act or Acts amending the same. Further, in the event of any injury happening to a Probationer in respect of which compensation would be payable under the Workmen's Compensation Act, 1906, any sick pay which may be granted will be inclusive of such compensation payable under the Act in question, and an amount equivalent to such compensation will be deducted from any payment to dependents should the injury terminate fatally.

14. Young men or women desiring admission as Probationers must fill up, in their own handwriting, the form below, and return this paper addressed to

THE REGIUS KEEPER,
ROYAL BOTANIC GARDEN,
EDINBURGH.

15. Applicants will be informed if their names have been entered for admission, and on a vacancy occurring will receive notice thereof. Should there be no vacancy within six months from the date of application, it must be renewed if the Applicant still desires to work as a Probationer in the Royal Botanic Garden. If not renewed, the applicant's name will be removed from the waiting list.

16. The First Commissioner desires to impress upon applicants that he grants this privilege in the expectation that Probationers will earnestly endeavour to make use of and profit by the opportunities of acquiring knowledge placed within their reach, and will recognise that it is incumbent upon them at the same time to perform with zeal the duties assigned to them.

Form to be filled up by Applicants for Admission as Probationers in the Royal Botanic Garden, Edinburgh.

Name of Applicant

Address

Date of Birth

Birthplace

Forester or Gardener

Name and address of present (or last) employer

Length of time in present situation

Previous situations and length of time in each (Gardeners to state amount of their experience in cultivation of plants under Glass)

*Signature of Applicant*_____

*Date*_____

Lectures to the Public.

The Regius Keeper from time to time gives lectures which are open to the public.

Research.

The **Laboratories** are open to anyone desirous of undertaking Botanical Research.

Specimens for Private Study.

Specimens for private study are supplied, as far as the resources of the Garden will permit, to visitors, teachers, and students who make written application to the Regius Keeper. Application forms may be obtained at the office of the Garden.

Plants and Seeds are not Sold from the Garden.

Publications.

In 1900 appeared the first number of *Notes from the Royal Botanic Garden, Edinburgh*, for the purpose of publishing reports upon the conditions and progress of the Garden, records of scientific investigations carried on in the Garden, and notices of matters of interest relating to plant-life which have come under the observation of the Staff. The *Notes* are available in exchange for publications of kindred institutions, and are on sale at the gates of the Garden and may be purchased either directly or through any Bookseller from H.M. Stationery Office (Scottish Branch), 23 Forth Street, Edinburgh. The parts are not issued at fixed periods. Twelve volumes have been completed.

A short descriptive *Sketch of the Garden* may be purchased at the gates.

A **Seed List** containing the names of plants cultivated from which seeds have been collected during the year is published in December. The seeds are available for exchange.

Botanical Department
of the
University of Edinburgh.

DURING nearly two centuries the offices of Regius Keeper of the Royal Botanic Garden and Professor of Botany in the University of Edinburgh have been held by the same person, and it has become the custom that the students of the University come to the Garden for instruction in Botany. The whole work of the Botanical Department of the University is carried out in the Garden by the University Staff, which at this date is constituted as follows :—

Professor of Botany	Isaac Bayley Balfour, K.B.E., M.A., M.D., F.R.S.
Assistant and Lecturer on Botany .	James Robert Matthews, M.A., F.L.S.
Assistant and Lecturer on Forest Botany	James Lindsay Salmond Smith, M.A., B.Sc.
Assistant and Lecturer on Mycology	Malcolm Wilson, D.Sc., F.L.S., F.R.S.E.
Assistant and Lecturer on Plant Physiology	James Templeton, B.Sc.
Assistant and Tutor in Botany .	Mary Bartholomew, B.Sc.

Enumeration of Visitors to the Royal Botanic Garden, Edinburgh, during the Years 1889-1920.

ON the 1st of April 1889, the control of the Royal Botanic Garden, Edinburgh, was vested in the Commissioners of His Majesty's Works, and the Garden became subject to the "Act for the Regulation of the Royal Parks and Gardens, 1872." From the date specified the Garden has been opened to the public on Sundays, and also for an extended period on Week-days. The table below shows the number of visitors to the Garden on Sundays and Week-days respectively during the thirty-two years which have elapsed since the Garden was transferred to the Commissioners of His Majesty's Works :—

Year.	Total in Year.	Total on Sundays.	Largest Number on a Sunday.	Smallest Number on a Sunday.	Total on Week Days.	Largest Number on a Week Day.	Smallest Number on a Week Day.
*1889 ...	368,219	187,457	13,935	129	180,762	3,834	50
1890 ...	446,540	216,345	11,262	91	230,195	4,032	65
1891 ...	454,083	220,543	9,445	340	233,540	3,228	76
1892 ...	437,205	218,233	13,581	149	218,972	2,666	43
1893 ...	531,232	271,893	12,860	45	259,339	3,197	40
1894 ...	526,948	268,793	13,515	68	258,155	3,153	28
1895 ...	516,608	264,497	15,227	127	252,111	5,292	26
1896 ...	516,407	296,576	13,517	527	219,831	3,825	30
1897 ...	475,210	271,730	16,001	74	203,480	3,153	20
1898 ...	443,289	258,499	12,840	123	184,790	3,234	39
1899 ...	461,686	259,424	15,161	105	202,262	2,758	30
1900 ...	561,359	324,856	17,700	268	236,503	3,667	53
1901 ...	586,461	339,229	19,256	258	247,232	4,627	45
1902 ...	522,363	295,892	15,561	165	226,471	5,461	60
1903 ...	606,184	355,310	19,583	135	250,874	4,202	41
1904 ...	639,066	367,290	20,719	374	271,776	3,564	42
1905 ...	584,546	330,995	19,859	100	253,551	2,708	60
1906 ...	699,558	394,030	21,959	84	305,528	3,760	44
1907 ...	674,208	422,899	25,601	708	251,309	3,365	40
1908 ...	585,171	342,106	20,549	570	243,065	2,898	39
1909 ...	683,243	394,861	24,334	165	288,382	3,483	71
1910 ...	777,864	430,776	21,813	244	347,088	3,598	80
1911 ...	708,943	420,163	22,765	82	288,780	3,828	66
1912 ...	714,170	383,476	25,930	88	330,694	3,515	81
1913 ...	876,585	500,205	27,398	680	376,380	4,100	59
1914 ...	776,280	414,518	25,521	106	361,762	5,337	62
1915 ...	730,761	442,179	21,155	125	288,582	3,827	55
1916 ...	695,364	367,713	20,227	98	327,651	3,926	41
1917 ...	737,070	428,752	21,531	170	308,318	3,293	59
1918 ...	727,782	320,450	20,811	236	407,332	3,911	39
1919 ...	811,937	436,055	21,775	231	375,882	6,274	52
1920 ...	644,856	399,398	19,340	481	245,458	3,777	84
Total for Thirty-two Years.	19,521 198	10,845,143	...	...	8,676,055	...	...

* Numbers in this year for nine months only.

ROYAL BOTANIC GARDEN, EDINBURGH.

WAR SERVICE ROLL.

1914–1919.

Showing the names, with short statement of service, of Members of the Staff of the Royal Botanic Garden, Edinburgh, who at the call of duty joined H.M. Naval and Military Forces for the Great War which began in August 1914.

AT the outbreak of war in August 1914 the appeal for recruits for H.M. Forces met with ready response from the Staff of the Royal Botanic Garden. Before many weeks had passed every fit man who would be accepted had left for service. At the time the Garden Staff was one of 110 members, of whom one-fifth were women. Of the men, 73 joined the Forces. Over a fourth of these have given their lives for their country. The publication of this list as an Official Record of the Garden will preserve for all time the story of the loyalty of our Garden Staff, and will carry, it is hoped, to the relatives and friends of those of the Staff who fell in the War the message that the devotion and self-sacrifice of these men is a living memory which we cherish and desire to perpetuate. And no less, we trust, will those who have borne their share of the burden and who are still with us accept this tribute of recognition of what they have done for us.

James Christopher Adam.

Joined staff of Garden as Helper, 12th April 1912. Enlisted Royal Scots, 17th January 1917. Rank—Private. Later, Machine Gun Corps. Service in field in Flanders, 3 months. Killed in action, 21st March 1918.

Robert Moyes Adam.

Joined staff of Garden as Helper, 1st July 1903. Assistant in Studio, August 1914. Enlisted Royal Garrison Artillery, 17th January 1917. Rank—Bombardier. Later, Royal Air Force—Lieutenant. Service in field in Flanders, 12 months. Demobilised, 3rd February 1919.

Thomas Adam.

Joined staff of Garden as Labourer, 31st July 1907. Mobilised 6th August 1914, 2nd Scots Guards. Rank—Private. Service in field in Flanders, 9 months. Killed in action, 16th May 1915.

Thomas Aird.

Joined staff of Garden as Labourer, 11th May 1914. Enlisted 11th Black Watch, 16th November 1914. Rank—Private. Service in field in France, 1 year. Once wounded. Killed in action.

Thomas Eneas Angus.

Joined staff of Garden as Probationer, 2nd December 1912. Enlisted 5th Battalion Cameron Highlanders, 29th August 1914. Rank—Private. Transferred 9th Division Cycle Corps—Sergeant. Later, Seaforth Highlanders—Captain. Service in field, 1 year 7 months. Wounded 13th November 1916. "Special Mention," Sir Douglas Haig's despatch of 31st May 1918.

George Ballantine.

Joined staff of Garden as Labourer, 13th May 1914. Enlisted 29th October 1914, Argyll and Sutherland Highlanders. Rank —Captain and Quartermaster. Service in the field in Flanders, 2 years 6 months. Two mentions in despatches. Demobilised, 18th August 1919.

William Frederick Bennett.

Joined staff of Garden as Probationer, 28th August 1911. Enlisted 5th Cameron Highlanders, 29th August 1914. Rank— Private, later Lance-Corporal. Service in the field in Flanders, about 5 months. Missing, presumed killed in action, 25th September 1915.

George Blackmore.

Joined staff of Garden as Labourer, 2nd October 1913. Enlisted 7th Royal Scots Fusiliers, 1st September 1914. Rank —Sergeant. Service in field in Flanders, 4 months. Died of wounds, 7th March 1916.

George Brown.

Joined staff of Garden as Labourer, 21st July 1914. Enlisted 9th Royal Scots, 9th November 1915. Rank—Private. Service in field in Flanders, 2 years. Once wounded. Demobilised, 7th March 1919.

John Mathieson Brown.

Joined staff of Garden as Labourer, 8th August 1914. Enlisted 7th Royal Scots, 29th August 1914. Rank—Private. Service in field, Egypt and Gallipoli, about 1 year. Killed in action, Gallipoli, 24th November 1917.

Robertson Brown.

Joined staff of Garden as Labourer, 10th September 1913. Enlisted 2nd Royal Scots, 31st August 1914. Rank—Sergeant. Service in field in Flanders, 10 months. Once wounded, 11th March 1915.

Henry Howden Bryce.

Joined staff of Garden as Probationer, 13th January 1913. Enlisted 14th Royal Scots, 28th February 1916. Rank—Private. Service in field in Flanders, 12 months. Once wounded. Demobilised, 18th September 1919.

Andrew Ewing Calder.

Joined staff of Garden as Labourer, 27th June 1912. Enlisted Royal Field Artillery, 7th May 1915. Rank—Gunner. Service in field in Flanders, about 2 years. Died of wounds, 13th September 1918.

James John Campbell.

Joined staff of Garden as Gardener in training, 17th April 1905. Sub-foreman. Enlisted 5th Royal Scots, 31st August 1914. Transferred 11th Royal Scots. Rank—Private. Service in field in Flanders, 2 years 6 months. Demobilised, 22nd May 1919.

Duncan Coutts.

Joined staff of Garden as Probationer, 27th November 1912. Enlisted 29th August 1914, 5th Cameron Highlanders. Rank—Private. Service in field in Flanders, about 2 years. Died of wounds, 4th May 1917.

William Gordon Dickson.

Joined staff of Garden as Labourer, 3rd August 1914. Enlisted 5th Royal Scots, 4th September 1914. Rank—Private. Killed in action at Gallipoli, July 1915.

John Dykes.

Joined staff of Garden as Labourer, 22nd July 1914. Enlisted Royal Scots Fusiliers, 13th March 1915. Rank—Private. Demobilised, 7th February 1919.

William Dykes.

Joined staff of Garden as Boy, 3rd August 1914. Enlisted 5th Royal Scots, 31st August 1914. Rank—Private. Service in field in Gallipoli and France, 2 years. Once wounded. Demobilised, 7th January 1919.

Horace Ellwood.

Joined staff of Garden as Probationer, 2nd January 1913. Enlisted 5th Royal Scots, 13th September 1914. Rank—Private, later Corporal. Service in field in Gallipoli, 1 year 1 month. Twice wounded. Demobilised, 26th February 1919.

John Richard Ferisy.

Joined staff of Garden as Labourer, 8th December 1913. Enlisted 6th K.O.S.B., 28th August 1914. Rank—Sergeant. Service in field in Flanders and India, 4 years 2 months. Demobilised, 5th June 1919.

George Hugh Fothergill.

Joined staff of Garden as Probationer, 16th December 1912. Enlisted 5th Royal Scots, 18th October 1915. Rank—2nd Lieutenant. Service in field in Flanders, about 18 months.

Frederick Fraser.

Joined staff of Garden as Gardener, 14th October 1910. Enlisted 5th Royal Scots, 31st August 1914. Rank—Private, later Lance-Corporal. Service in field in Egypt, 6 months. Discharged, 20th August 1915.

John Fraser.

Joined staff of Garden as Labourer, 17th February 1913. Enlisted 19th August 1918, Royal Engineers. Rank—Pioneer. Discharged, 11th December 1918.

Robert Garner.

Joined staff of Garden as Labourer, 8th May 1914. Enlisted 2nd Royal Scots, 5th August 1914. Rank—Private. Later, 2nd A.M. Royal Air Force. Demobilised, 24th April 1919.

James Murray Grant.

Joined staff of Garden as Probationer, 2nd January 1912. Enlisted Cameron Highlanders, 29th August 1914. Later, Royal Highlanders and Labour Corps. Rank—Private, later Corporal. Service in field in Flanders, 3 years. Once wounded. Demobilised, 17th February 1919.

Daniel Greenshields.

Joined staff of Garden as Timekeeper, 1st May 1912. Mobilised 2nd August 1914, Royal Navy. Rank—Yeoman of Signals (Petty Officer). Service on Belgian Coast, in East Africa, and Home Waters, full period of War. Once wounded. Decorations, Distinguished Service Medal. Demobilised, 15th January 1919.

James Maxwell Hampson.

Joined staff of Garden as Labourer, 2nd April 1914. Enlisted 5th Royal Scots, 1st September 1914. Rank—Private, later Lance-Sergeant. Service in field, 1 year's service in Gallipoli, 2 years' service in France. Killed in action, 8th March 1918.

John Hatley.

Joined staff of Garden as Labourer, 23rd July 1914. Enlisted 15th November 1914. Rank—Private. Service in field in Flanders, 3 years. Killed in action, 18th April 1918.

John Henderson.

Joined staff of Garden as Labourer, 8th January 1915. Enlisted 6th K.O.S.B., 12th September 1916. Rank—Private. Service in field, 2 years 7 months. Demobilised, 5th November 1919.

John Hepburn.

Joined staff of Garden as Labourer, 27th April 1914. Enlisted 3rd Royal Scots, 1st September 1914. Rank—Company Sergeant-Major, a/R.S.M. Demobilised, 7th November 1919.

William John Hepburn.

Joined staff of Garden as Probationer, 24th March 1913. Enlisted 5th Royal Scots, 5th August 1914. Rank—Private, later Lieutenant. Service in field in Flanders, about 2½ years. Demobilised, 28th January 1919.

David Hume.

Joined staff of Garden as Labourer, 22nd April 1914. Mobilised 6th August 1914, 1st Royal Scots. Rank—Private. Killed in action in Flanders, 26th August 1914.

Douglas Hunter.

Joined staff of Garden as Park-keeper, 28th July 1912. Enlisted Gordon Highlanders, 29th August 1914. Rank—Company Sergeant-Major. Demobilised, 12th February 1919.

Henry Johnstone.

Joined staff of Garden as Labourer, 13th August 1914. Enlisted 5th Royal Scots, 3rd September 1914. Service in field in Egypt, Gallipoli, and Flanders, 3 years 9 months. Once wounded. Demobilised, 29th January 1919.

James Todd Johnstone.

Joined staff of Garden as Assistant in Library, 20th March 1912. Enlisted 7th Royal Scots, 2nd September 1914. Rank—Private, later Sergeant. Later, in Royal Defence Corps and Royal Scots Fusiliers. Demobilised, 23rd February 1919.

Arthur Henry Jones.

Joined staff of Garden as Labourer, 8th December 1911. Enlisted Royal Army Medical Corps, 5th August 1914. Rank —Private, later Corporal. Service in field, Ward Orderly in No. 11 General Hospital, B.E.F., France. Died in hospital, 19th May 1916.

Robert Keir.

Joined staff of Garden as Probationer, 5th August 1913. Enlisted 5th Cameron Highlanders, 29th August 1914. Rank— Private, later Lance-Corporal. Service in field in Flanders and France, 3 years. Thrice wounded. Demobilised, 15th March 1919.

Charles Lamont.

Joined staff of Garden as Probationer, 20th August 1914. Enlisted 5th Royal Scots, 31st August 1914. Rank—Private, later Corporal. Service in field in Egypt, Gallipoli, and France, 3 years 10 months. Once wounded. Demobilised, 31st January 1919.

John McMillan Lugton.

Joined staff of Garden as Park-keeper, 13th January 1913. Enlisted Scottish Horse, 17th August 1914. Rank—Squadron Sergeant-Major. Service in field in Gallipoli, Egypt, Balkans, and France, 3 years. Twice wounded. Demobilised, 2nd February 1919.

Henry McBeath.

Joined staff of Garden as Stoker, 17th March 1909. Enlisted Scottish Horse, 4th September 1914. Rank—Sergeant. Service in field in Flanders, about 3 years. Died in hospital, 15th October 1918.

Alexander McCutcheon.

Joined staff of Garden as Gardener, 25th February 1907. Foreman, 21st July 1919. Enlisted Royal Scots, 31st August 1914. Rank—Sergeant. Service in field in Gallipoli and Flanders, 3 years 10 months. Demobilised, 27th January 1919.

William M'Nab.

Joined staff of Garden as Labourer, 26th May 1904. Enlisted Scottish Horse, 27th August 1914. Rank — Private. Demobilised, 16th October 1918.

Alan Menzies.

Joined staff of Garden as Probationer, 5th August 1913. Enlisted 5th Cameron Highlanders, 29th August 1914. Rank —Private. Service in field in Flanders, 4 months. Killed in action, 25th September 1915.

George Joseph Milne.

Joined staff of Garden as Labourer, 24th April 1914. Mobilised 5th August 1914, Highland Light Infantry. Rank —Lance-Corporal. Service in field in Flanders, 3 years 5 months. Wounded. Demobilised, 17th November 1919.

Walter Henry Morland.

Joined staff of Garden as Gardener, 5th January 1910. Enlisted 5th Royal Scots, 2nd September 1914. Rank—Private. Service in field in Gallipoli, 3 months. Killed in action, 7th May 1915.

Alfred John Munday.

Joined staff of Garden as Gardener, 2nd January 1911. Enlisted 5th Royal Scots, 31st August 1914. Rank—Private. Service in field in Egypt and Flanders, 4 years 2 months. Demobilised, 14th May 1919.

James Murdison.

Joined staff of Garden as Labourer, 8th August 1914. Enlisted Army Service Corps, 29th September 1914. Rank— Private. Service in field in Flanders, 1 year. Demobilised, 17th May 1919.

William North.

Joined staff of Garden as Hall Attendant, 23rd June 1911. Enlisted 11th Royal Scots, 28th August 1914. Rank—Regimental Sergeant-Major. Service in field in France, 6 months. Invalided home.

David Ramsay Oliver.

Joined staff of Garden as Implement Keeper, 6th February 1911. Enlisted 5th Cameron Highlanders, 29th August 1914. Rank—Private. Later, Lieutenant 3rd Gloucestershire Regiment. Service in field in Flanders and France, 3 years. Twice wounded. Demobilised, 17th July 1919.

Matthew Young Orr.

Joined staff of Garden as Assistant in Laboratory, 4th August 1913. Enlisted 7th Royal Scots, 29th August 1914. Rank—Captain. Mentioned in despatches. Gazetted 13th August 1918. Demobilised, 17th April 1919.

John Preston.

Joined staff of Garden as Park-keeper, 1st December 1908. Enlisted Seaforth Highlanders, 11th September 1914. Rank—Company Quartermaster Sergeant. Demobilised, 13th March 1919.

James Reid.

Joined staff of Garden as Probationer, 4th August 1913. Enlisted 5th Cameron Highlanders, 2nd September 1914. Rank—Private. Service in field in Flanders and France, 3 years 8 months. Demobilised, 26th January 1919.

John Reilly.

Joined staff of Garden as Labourer, 8th July 1914. Enlisted Royal Scots, August 1914. Discharged, 1915. Re-enlisted 1917. Rank—Private. Demobilised, April 1919.

Philip Reilly.

Joined staff of Garden as Labourer, 23rd January 1902. Enlisted 7th Royal Scots, 29th August 1914. Rank—Private. Demobilised, 23rd March 1919.

John Scotland.

Joined staff of Garden as Labourer, 23rd January 1907. Enlisted 6th Cameron Highlanders, 2nd August 1915. Rank—Private. Service in field in Flanders, 3 years. Once wounded. Demobilised, 16th March 1919.

James Scott.

Joined staff of Garden as Labourer, 24th July 1907. Enlisted Royal Marines, 1st June 1915. Rank—Private. Demobilised, April 1919.

John Severn.

Joined staff of Garden as Labourer, 8th April 1909. Mobilised 1st Gordon Highlanders, 5th August 1914. Rank—Lance-Corporal. Service in field in Flanders, 4 months. Once wounded. Discharged, 6th May 1916.

Edwin Lowther Sills.

Joined staff of Garden as Labourer, 2nd June 1913. Enlisted Gordon Highlanders, 25th August 1914. Rank—Lance-Corporal. Service in field in Flanders, 2 years 9 months. Demobilised, 24th April 1919.

Duncan Smith.

Joined staff of Garden as Gardener, 4th January 1909. Enlisted 5th Royal Scots, 4th September 1914. Rank—Private. Service in field in Gallipoli, 3 months. Killed in action, 11th June 1915.

James Stewart.

Joined staff of Garden as Labourer, 10th March 1913. Enlisted Royal Scots Greys, 29th August 1914. Discharged on medical grounds, 28th November 1914. Rejoined Royal Garrison Artillery, 14th August 1917. Rank—Gunner. Service in field in Flanders, 18 months. Demobilised, 19th August 1919.

John Stewart.

Joined staff of Garden as Probationer, 4th August 1913. Enlisted 5th Cameron Highlanders, 29th August 1914. Rank—Lance-Corporal. Service in field in Flanders, 4 months. Killed in action, 25th September 1915.

Laurence Baxter Stewart.

Joined staff of Garden as Propagator, 22nd January 1902. Enlisted 65th Division Cyclists, 7th June 1915. Rank—Quartermaster Sergeant. Demobilised, 24th January 1919.

Samuel Stewart.

Joined staff of Garden as Assistant Head Gardener, 11th May 1908. Enlisted 5th Cameron Highlanders, 28th March 1916. Rank—Private, later Lance-Corporal. Service in field in Flanders, 1 year. Killed in action, 18th September 1917.

George Hugh Stuart.

Joined staff of Garden as Implement Keeper, 20th April 1914. Enlisted 5th Cameron Highlanders, 29th August 1914. Rank—Private. Service in field in Flanders, 6 months. Killed in action, 25th September 1915.

Daniel Spence Sweeney.

Joined staff of Garden as Hall Attendant, 1st June 1911. Enlisted 9th Royal Scots, 16th September 1914. Rank—Divisional Bandmaster. Service in field in Flanders, 1 year. Mentioned in despatches. Demobilised, 22nd February 1919.

George Tait.

Joined staff of Garden as Park-keeper, 14th August 1911. Enlisted 1st Gordon Highlanders, 29th August 1914. Rank—Sergeant. Service in field in Flanders, 4 years 2 months. Demobilised, 28th February 1919.

George Thomson.

Joined staff of Garden as Labourer, 2nd December 1913. Enlisted 7th Royal Scots, 29th August 1914. Rank—Sergeant. Service in field in Flanders, 1 year 10 months. Twice wounded. Demobilised, 17th February 1919.

James Stewart Tod.

Joined staff of Garden as Packer, 3rd November 1902. Enlisted 9th Royal Scots, 29th August 1914. Rank—Lance-Corporal. Service in field in Flanders, 3 years 11 months. Once wounded. Demobilised, 22nd January 1919.

John White.

Joined staff of Garden as Probationer, 9th December 1912. Enlisted 9th Royal Scots, 6th December 1914. Rank—Private. Later, Machine Gun Corps. Service in field in France, 1 year 2 months. Demobilised, 15th February 1919.

James Henry White.

Joined staff of Garden as Labourer, 5th February 1912. Enlisted K.O.S.B., 29th August 1914. Rank—Quartermaster Sergeant. Demobilised, 8th April 1919.

Alexander Wilson.

Joined staff of Garden as Park-keeper, 18th February 1913. Enlisted 2/1st Scottish Horse, 17th August 1914. Rank—Squadron Sergeant-Major. Demobilised, 3rd July 1919.

John Forsyth Wilson.

Joined staff of Garden as Labourer, 5th December 1913. Enlisted Royal Field Artillery, 4th August 1914. Rank—Sergeant. Service in field in Flanders, 3 years 7 months. Twice wounded, once gassed. Mentioned in despatches. Discharged, 7th January 1919.

Thomas Young.

Joined staff of Garden as Patrol, 24th April 1914. Enlisted 1st Black Watch, 5th August 1914. Rank—Private. Service in field in Flanders, 4 years 6 months. Demobilised, 22nd February 1919.

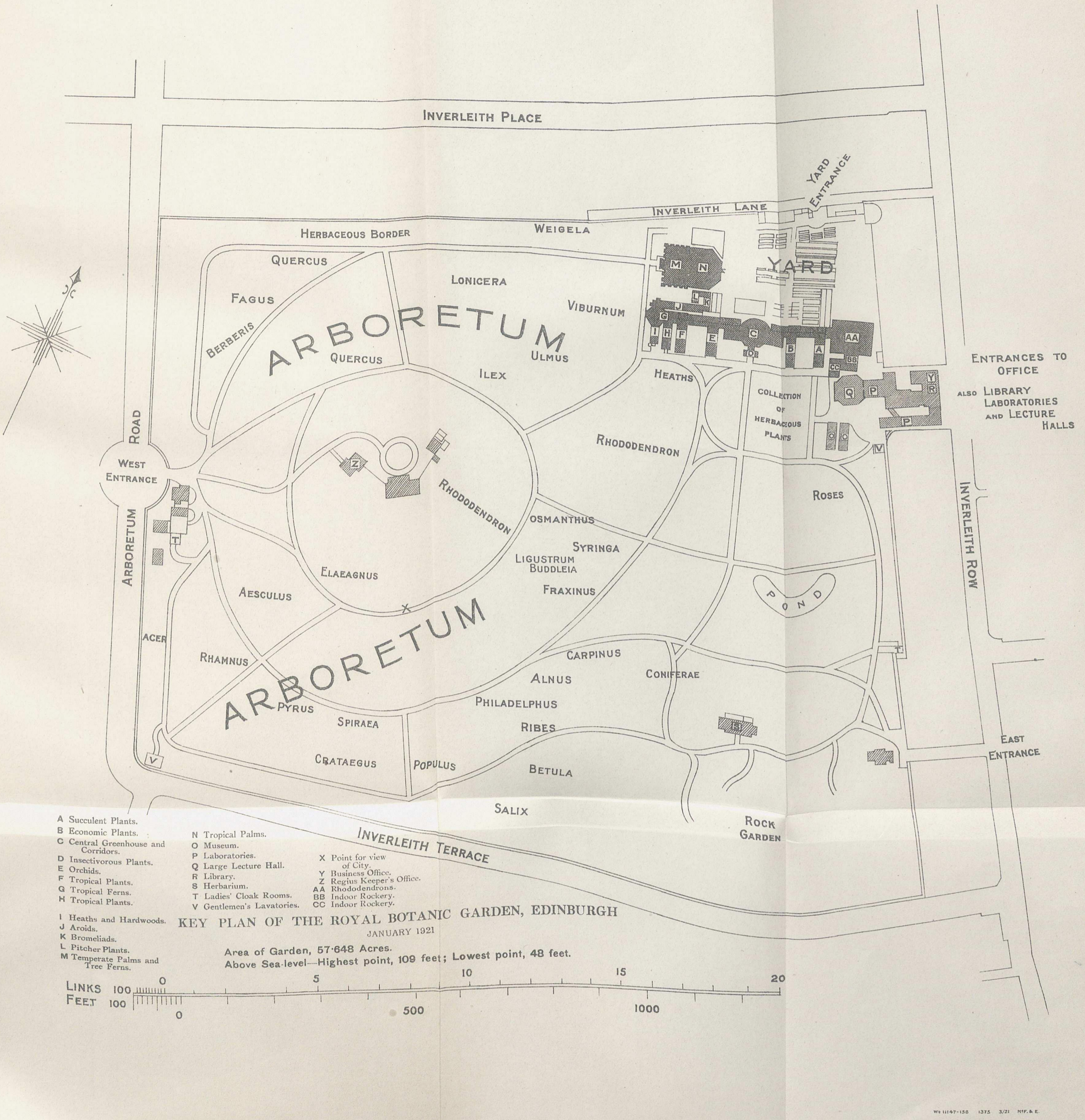
This record is completed by the names following of members of the Staff who in fields other than Naval and Military devoted themselves to special service of the State during the War :—

William Wright Smith.

Joined staff of Garden as Assistant Keeper, 20th November 1911. Officer in Charge of Labour in Scotland to the Timber Supply Department of the Board of Trade, 1916–1918.

Harry Frank Tagg.

Joined staff of Garden as Assistant in Museum, 22nd January 1894. Scientific Officer in the Timber Supply Department of the Board of Trade, 1917–1918.



KEY PLAN OF THE ROYAL BOTANIC GARDEN, EDINBURGH

JANUARY 1921

Area of Garden, 57·648 Acres.

Above Sea-level—Highest point, 109 feet; Lowest point, 48 feet.

We 11147-158 1375 3/21 MTF. & E.