

**Board of the Botanic Gardens  
and State Herbarium**

Annual Report 2013-14



# Connecting people to plants

2013-14 Annual Report of the Board of the Botanic Gardens and State Herbarium



Above (l-r): Palm House at Adelaide Botanic Garden, Autumn leaves at Mount Lofty Botanic Garden and Wittunga Botanic Garden in Winter.  
Front cover: *Eucalyptus alatissima*

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State Herbarium

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ABN: 36 702 093 234

ISSN: 0728-7704  
ISBN: 978-1-921876-00-4

5 September 2014



**Government  
of South Australia**

Department of Environment,  
Water and Natural Resources

Board of the  
Botanic Gardens and  
State Herbarium



# Contents

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Letter of Transmittal	1
Presiding Member's Foreword	2
Director's Report	4
The Botanic Gardens and State Herbarium	6
Plans and Objectives	7
The Board's Strategic Plan 2012-2017	7
Contribution to South Australia's Strategic Plan 2011	8
Highlights, operations and initiatives	10
The year in review	10
Role, Legislation and Structure	36
Object of the <i>Botanic Gardens and State Herbarium Act 1978</i>	36
Role of the Board of the Botanic Gardens and State Herbarium	36
Functions of the Board of the Botanic Gardens and State Herbarium	36
Membership	37
Meetings: General and Special	37
Governance Arrangements	37
Management of Human Resources	37
Contractual Arrangements	38
Fraud	38
Consultants	38
Overseas Travel	38
Asbestos Management in Government Buildings	38
Urban Design Charter	38
Freedom of Information Statements	38
Whistleblowers Protection Act 1993	38
Regional Impact Assessment Statements	39
Reconciliation Statement	39
Acknowledgements	39
Financial Report	39
Annual Financial Statements for the year ended 30 June 2014	40
Appendices	64
Appendix 1   Publications	65
Appendix 2   Presentations	71
Appendix 3   Conferences and Workshops	74
Appendix 4   Research Collaborations	75
Appendix 5   Scientific Grants	78
Appendix 6   Research Students	80
Appendix 7   Organisation Chart	82
Appendix 8   Botanic Gardens and State Herbarium Staff List	83
Appendix 9   Visitor Numbers	85
Appendix 10   Friends of the Botanic Gardens of Adelaide	91

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# Letter of Transmittal

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Government  
of South Australia  
Department of Environment,  
Water and Natural Resources

Board of the  
Botanic Gardens and  
State Herbarium



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5 September 2014

Hon Ian Hunter MLC  
Minister for Sustainability Environment and Conservation  
Parliament House  
North Terrace  
ADELAIDE SA 5000

Dear Minister

In accordance with the requirements of the *Public Sector Act 2009* and Section 23 of the *Botanic Gardens and State Herbarium Act 1978*, I have pleasure in presenting the annual report of the Board of the Botanic Gardens and State Herbarium for the year ended 30 June 2014.

Yours sincerely

Judy Potter  
**PRESIDING MEMBER**  
**BOARD OF THE BOTANIC GARDENS AND STATE HERBARIUM**

# Presiding Member's Foreword

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The Botanic Gardens and State Herbarium, and the work they undertake, are deeply embedded within the fabric of our great state. Since the 1850s Adelaide Botanic Garden has been a showpiece for landscape design and horticultural practice, and provided a retreat from the hustle and bustle of metropolitan Adelaide's CBD.

Historically, much of the work undertaken by the Gardens has remained unknown to the general public. The State Herbarium and the South Australian Seed Conservation Centre, for example, carry out many functions to cultivate and share South Australia's precious plant species with like-minded institutions both nationally and internationally. Likewise, the formal naming and classification of new species, an ongoing task, occurs unseen almost daily within the Science Resource Centre at Adelaide Botanic Garden.

The expertise within the Gardens and Herbaria, and the quality of the work they conduct is easily underestimated. It is a priority for the Board to ensure the knowledge gained is shared as widely as possible. As Presiding Member of the Board, I am pleased to report that the Botanic Gardens and State Herbarium have significantly increased their capacity to share the scope of work undertaken.

The Botanic Gardens and State Herbarium are part of an international community of collections-based cultural and scientific institutions. As such the Board is the custodian of a unique collection of living, preserved and cultural items that represent the botanical heritage of South Australia.

Diverse living collections make the three botanic gardens at Adelaide, Mount Lofty and Wittunga places of aesthetic appeal, inspiration and enjoyment. The preserved specimens of plants and seeds held in the Herbarium and South Australian Seed Conservation Centre are of international importance and drive research and landscape restoration programs. Additionally, the organisations cultural collections comprise of art works, sculptures, photographs and memorabilia that connect people to the cultural heritage of South Australia.

On behalf of the Board I am pleased to report the Gardens and State Herbarium was successful in contributing to fourteen targets on South

Australia's Strategic Plan. Some of the key achievements within these targets include:

- Receipt of Number 2 rating on TripAdvisor.com as a must visit destination in Adelaide (Target 4: Tourism Industry)
- Over 45 000 volunteer hours contributed across Gardens and Herbarium activities (Target 24: Volunteering)
- Installation of solar panels on the roof of the Science Resource Centre (former Tram Barn A), providing power to much of the Adelaide Botanic Garden and Herbarium (Target 65: GreenPower)

Full details of our contribution to South Australia's Strategic Plan are detailed later in this report.

The Botanic Gardens and State Herbarium celebrated historic milestones this past year. The First Creek Wetland at Adelaide Botanic Garden was officially launched by the Hon Ian Hunter MLC, Minister for Sustainability, Environment and Conservation on 22 November 2013. The wetland will, over time, form an important part of the water security plan for Adelaide Botanic Garden and Botanic Park. In five to eight years it is anticipated that the wetland will recover up to 100ML of water a year from the aquifer, enough to irrigate Adelaide Botanic Garden.

The South Australian Seed Conservation Centre, through the Australian Seed Bank Partnership, successfully secured funding for seed collections in the Alinytjara Wilurara region. The seed hunting team conducted several field trips, with threatened species identified and collected in remote areas at the peak of Mount Woodroffe and the Great Victorian Desert. It is pleasing to note that expeditions such as these have resulted in potential partnerships being formed with ecologists and Aboriginal Communities within these regions.

A significant highlight in 2013-14 was the achievement of 1192 days passed with no Lost Time Injuries (LTIs), with the last recorded LTI on 27 March 2011. This result is a substantial improvement on the previous record of 677 days between LTIs and an achievement all staff should be proud of. On behalf of the Board I congratulate everyone on their commitment to workplace safety.





Uncle Lewis Yerloburka O'Brien; The Hon Ian Hunter MLC, Minister for Sustainability, Environment and Conservation; Presiding Member Judy Potter; Botanic Gardens of South Australia Director Stephen Forbes and Liberal Senator for South Australia Simon Birmingham at the Launch of the First Creek Wetland at Adelaide Botanic Garden.

The Botanic Gardens and State Herbarium continue to be actively involved with the Council Heads of Australian Botanic Gardens, Council of Heads of Australian Herbaria, and Botanic Gardens Australia and New Zealand. Affiliations such as these contribute to our organisation providing world-class Gardens and associated programs for our visitors and stakeholders.

On behalf of the Board, I extend my thanks to the Friends of the Botanic Gardens of Adelaide. With a solid membership base of 900, this hardworking, loyal and dedicated group of individuals donate their time to ensure visitors get the most out of what our Gardens have to offer. Bodo Jensen, as President of the Friends, is an exemplary leader and has worked tirelessly towards our shared goal of connecting people with plants. In 2013-14, the Friends took responsibility for staffing the Visitor Information Centre daily, an activity that significantly reduces pressure on Gardens administration.

My sincere appreciation is also extended to the Mount Lofty Botanic Garden Support Group. Their efforts to raise funds for the proposed Visitor Pavilion at Mount Lofty have not gone unnoticed and have already attracted considerable funding and in-kind support from donors and business. My thanks is also extended to the Adelaide Botanic Gardens Foundation for their support and fundraising efforts.

To our donors, sponsors, stakeholders and corporate partners who contribute to our achievements, thank you.

To my fellow Board Members, who provide outstanding advice and leadership, I am grateful.

Finally, I would like to extend my gratitude to the following individuals for their support over the past year; The Hon Ian Hunter MLC, Minister for Sustainability, Environment and Conservation; Allan Holmes, Chief Executive Officer of the Department of Environment, Water and Natural Resources (DEWNR); Stephen Forbes, Director of the Botanic Gardens and State Herbarium, for his outstanding leadership; and the entire staff of the Botanic Gardens and State Herbarium.

Thank you

**Judy Potter**  
 Presiding Member  
 Board of the Botanic Gardens and  
 State Herbarium

# Director's Report

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Throughout history botanic gardens have changed the world by providing the institutional architecture to address our relationship with plants. Botanic gardens are where people, plants and culture come together. Collections-based cultural institutions such as art, natural history and ethnographic museums have a significant role to play in anchoring a city's cultural identity. The Botanic Gardens of South Australia and the State Herbarium are no different.

For more than 150 years, Adelaide Botanic Garden has played a significant role in the cultural life of South Australia with its display of unique and exotic plants from across the globe. In addition to the Adelaide garden, Mount Lofty and Wittunga provide alternate, yet equally spectacular collections for South Australia and its visitors to cherish.

With approximately 1.8 million visitors each year, the Gardens are the most popular and most loved of the state's cultural institutions, regarded by the community as a place for relaxation, entertainment, recreation, education, botanical research, ecology and horticulture. The Australian Bureau of Statistics indicate that botanic gardens are the second most visited place in Australia after cinemas, and are the most accessible, most visited and most egalitarian of any city's cultural institutions.

The Botanic Gardens of South Australia receive more visitors each year than the Art Gallery and Museum combined, and more people go to our botanic gardens than attend Crows and Power home football matches and Australia-class cricket matches combined.

The Botanic Gardens and State Herbarium continue to strive for excellence while maintaining the beauty of our gardens as a refuge for visitors from all walks of life.

In September 2013, the Board approved a decision to rename to Botanic Gardens of South Australia to better reflect the diversity of our work and geographic location of our sites. A reworked visual identity will be adopted during 2014-15.

In 2013-14, we have achieved our strategic targets and delivered programs and services while maintaining the high-standards required from a world-class cultural institution. Our efforts

and successes would not be possible without a dedicated team of highly-skilled professionals, to whom we all owe a great deal of thanks.

This annual report documents the Botanic Garden and State Herbarium's milestone achievements in the 2013-14 financial year and I would like to take this opportunity to draw attention to few key areas of activity.

Plant propagation is one of the cornerstones of our organisation. We build collections through our careful selections and share both the knowledge learned and the plant species displayed in our gardens. In 2013-14, the team in the Mount Lofty Botanic Garden Nursery propagated over 30 000 plants for a variety of uses, including over 1000 plants specifically propagated for the First Creek Wetland in Adelaide Botanic Garden. The Nursery is also ramping up propagation of plant species for international botanic gardens, with exciting developments to be announced over the next year.

The South Australian Seed Conservation Centre has continued to collect and store South Australia's most threatened species by working with regional communities and contributing to the restoration of habitats across the state. The Seed Bank at Adelaide Botanic Garden now stores 64% of South Australia's threatened flora (up from 61% in 2012-13) and is tracking well to achieve its target of 70% (580 species) banked by the end of 2016.

Over the past 12 months, the Gardens has developed and refined a digital strategy to better utilise online channels. The Gardens now has a presence on Facebook, Twitter, Instagram and YouTube. With a refined strategy and succinct content planning, our audience has seen a significant increase with excellent feedback provided. If you haven't already, I urge you to visit and support us on our social media platforms.

We have consolidated efforts in raising our profile through traditional media channels and seen a significant increase in media coverage across print, radio and television. Exposure through traditional media provides the Gardens and State Herbarium with a public voice and a greater medium to connect people with plants.



Our engagement of the education sector is also a cornerstone of our business. Through a partnership with the Department for Education and Child Development, the Gardens employ a full time education manager responsible for connecting South Australian children to our sites through a series of activities and walking trails. The Education Program has continued to deliver curriculum-linked learning programs, events and performances to South Australian schools fostering important relationships with our future custodians. It is pleasing to report that over 50 000 students engaged with the program in 2013-14.

I am also pleased to report that the Gardens continues as an education provider through a partnership with TAFE SA. The Australian Centre of Horticultural Excellence offers Certificate II and Certificate III courses in Horticulture, with 40 students graduating from the program in 2013-14. Additionally, a Master Classes Series aimed at the general community provides the opportunity for home gardeners to access practical information, advice, tips and tricks from Botanic Garden's experts. Having proven popular in 2013-14, the master class program is being expanded in 2014-15 to accommodate demand. The Centre of Excellence not only provides future horticulturalists with expert training, but the Gardens with a sustainable source of income.

The State Herbarium provided expert training to undergraduate science students from the University of Adelaide and Flinders University in the use of herbarium material. These students were taught by herbarium staff and university academics. This year saw the immediate online delivery of articles from the Journal of the Adelaide Botanic Gardens to further enhance access to scientific information by the wider research community.

As part of the Global Plants initiative, the State Herbarium also provides high resolution images of type specimens to JSTOR Plant Science.

The year has also seen significant developments in our Green Infrastructure Project. Working with like-minded government, industry and community groups, the project informs and educates South Australians on how to live in healthy, resilient and beautiful landscapes. The project launched two important web-based initiatives, Plant Selector+ and the Green

Infrastructure Evidence Base in an effort to achieve this vision. Details of these resources are outlined in this report.

This year was my third year as Chair of the Council Heads of Australian Botanic Gardens and of the Australian Seed Bank Partnership, and was especially rewarding. Strong partnerships between botanic gardens both nationally and internationally ensures effective collaboration and great results. Development of Australian native seed collections and understanding of their harvest, storage and germination requirements is fundamental to landscape management and restoration. Recently stronger partnerships with crop seed banks has been explored with closer attention to wild crop relatives being especially significant in linking landscapes and livelihoods.

As this report highlights, the scope of the work conducted by the Botanic Gardens and State Herbarium reaches far beyond the areas outlined here. It must be stressed that continuing our important work requires ongoing improvements to our business practices, and the fostering of strong community and philanthropic partnerships.

We rely on the goodwill and generosity of many to continue and advance our efforts. I extend my sincere thanks to everyone involved in our achievements over the past year.

My personal thanks go to the Hon Ian Hunter MLC, Minister for Sustainability, Environment and Conservation; Mr Allan Holmes, Chief Executive of DEWNR; Ms Judy Potter, Presiding Member of the Board of the Botanic Gardens and State Herbarium; Mr David Knox, Chair of the Adelaide Botanic Gardens Foundation; and Mr Bodo Jensen for his stewardship and dedication as President of the Friends of the Botanic Gardens of Adelaide.

Finally, I extend my appreciation to our hardworking team of staff and volunteers, the Adelaide Botanic Gardens Foundation, the Friends of the Botanic Gardens of Adelaide, and our partners and sponsors – thank you.



**Stephen Forbes**

Director  
Botanic Gardens and State Herbarium  
@StephenJForbes

# The Botanic Gardens and State Herbarium

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## Adelaide Botanic Garden and Botanic Park



For more than 150 years Adelaide Botanic Garden has played a significant role in the cultural life of South Australians. With approximately 1.145 million visitors a year at the Adelaide Garden and 1.8 million across the three sites, the botanic gardens are the most popular of the State's cultural institutions. Adelaide Botanic Garden's 23 hectares are regarded by the community as a place for relaxation, entertainment, recreation, education, and research into collections of botany, ecology and horticulture.

Botanic Park, which was established in 1870 as an arboretum, is a significant heritage landscape adjacent to Adelaide Botanic Garden. Dotted with century-old Moreton Bay Figs, the 27 hectare park is popular for picnics, weddings, photography, filming and major events.

## Mount Lofty Botanic Garden



Mount Lofty Botanic Garden opened to the public in 1977, following the purchase of the estate of Thomas Backhouse in 1952. A substantial program to establish landscaping, visitor amenities and cool-climate collections transformed it from an estate thick with regrowth Stringy Bark forest and Radiata Pine plantations into a major Adelaide Hills tourist attraction devoted to the cultivation of plants from cool temperate parts of the world. The garden today, which covers 97 hectares, includes collections of Magnolias, Rhododendrons, Ferns and the ATCO Heritage Rose Garden.

## Wittunga Botanic Garden



Wittunga, meaning beside water, was established as a private home by Edwin Ashby in 1902. The original property was based on a formal English design including extensive apple and pear orchards and a number of South African plants. In 1971 it was bequeathed to the Botanic Gardens of Adelaide by Edwin's son Keith Ashby and was opened to the public as a botanic garden in 1975.

An intimate and beautiful 14 hectare garden, today Wittunga highlights the relationship between South African and Australian shrub and tree species. The garden's displays of South African and Australian plants are especially spectacular in spring, and include rich collections of Erica, Leucadendron and Protea, which are complemented by exotic and unusual bulbs and colourful annuals. The majority of the plants from South Africa come from the Cape Province district, which has a climate similar to Adelaide's.

## State Herbarium



Located in the refurbished Tram Barn A in Adelaide Botanic Garden, the State Herbarium is the fourth largest herbarium in Australia containing more than one million plant specimens. It is the state's centre for the preservation of native and naturalised plants, algae, lichens and fungi. The Tram Barn is a hub of scientific expertise and also houses several teams from the DEWNR Science Monitoring and Knowledge Branch, as well as the University of Adelaide's Australian Centre for Ancient DNA. Data gathered by the Herbarium has a wide range of applications in research and education, and aids in the detection of rare or threatened species.

# Plans and Objectives

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## The Board's Strategic Plan 2012-2017

The Board of the Botanic Gardens and State Herbarium provides advice to the Minister for Sustainability, Environment and Conservation (the Minister) on the State Herbarium and three garden sites, Adelaide Botanic Garden and Botanic Park, Mount Lofty Botanic Garden and Wittunga Botanic Garden.

The Board is guided by the *Botanic Gardens and State Herbarium Act 1978*, and the Board's role and functions are set out in more detail in the Role, Legislation and Structure section of this report.

Over the past year the Board has also been guided by the Botanic Gardens and State Herbarium Strategic Plan 2012–2017.

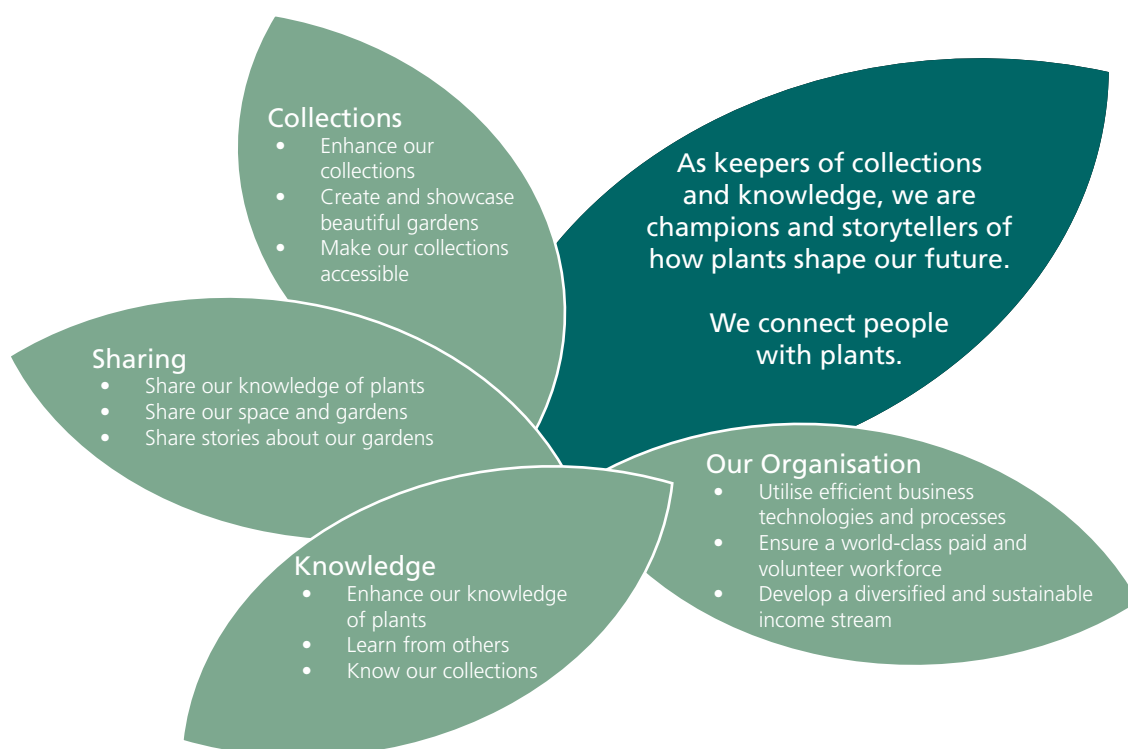
In formulating the plan the Board was informed by the International Agenda for Botanic Gardens in Conservation's definition of a botanic garden as a, 'cultural institution holding documented collections of living plants for the purpose of scientific research, conservation, display and education'.

It follows that the strategic plan 2012–2017 positions the Botanic Gardens and State Herbarium as keepers of collections and knowledge and champions and storytellers of how plants shape our future.

The Board aspires to be:

- unsurpassed in sharing knowledge of plants
- at the forefront amongst world leaders in scientific endeavours, and resolved to meet future challenges
- agile in all aspects of its business to maintain relevance to the community
- sought after for strong partnerships
- inspirational to visitors through the beauty and diversity of plants and displays

The strategic plan is set out according to four themes, collections, knowledge, sharing, and our organisation, with three key objectives under each theme. This report sets out achievements over the past year measured against key performance indicators.



# Contribution to South Australia's Strategic Plan 2011

The Board continues to play an important role in achieving South Australia's Strategic Plan (SASP) targets, and contributes to the State Government's broader strategic priorities to create a vibrant city, safe communities and healthy neighbourhoods; and every chance for every child.

In particular, the Board contributes to fifteen of the 100 targets outlined in the plan.

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## Target 1: Urban spaces

*Increase the use of public spaces by the community*

With 1.8 million visitors annually, the Botanic Gardens and State Herbarium is the state's most visited cultural and scientific institution. To attract visitors and ensure enjoyable and engaging visitor experiences events, activities and education programs are run throughout the year.

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## Target 3: Cultural vibrancy – arts activities

*Increase the vibrancy of the South Australian arts industry by increasing attendance at selected arts activities by 150% by 2020*

The Botanic Garden's sites continue to be highly sought-after venues for spectacular artistic and cultural events including WOMADelaide, Moonlight Cinema and the Tomato Festival. Attendance at these events continues to grow and the Gardens continually seek new opportunities.

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## Target 4: Tourism industry

*Increase visitor expenditure in South Australia's total tourism industry to \$8 billion and on Kangaroo Island to \$180 million by 2020*

Visitors to South Australia continue to prioritise the Botanic Gardens as a must-visit destination. TripAdvisor ([tripadvisor.com.au](http://tripadvisor.com.au)) ranks Adelaide Botanic Garden as number two on their Things to do in Adelaide page, with an average rating of 4.5 stars out of 5. With increased exposure to local, national and international audiences through social media activity the Gardens aim to be front-of-mind for visitors to South Australia. Popularity amongst tourists provides the state with direct economic benefits including increased tourism spend and significant investments in capital programs and services.

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## Target 21: Greater safety at work

*Achieve a 40% reduction in injury by 2012 and a further 50% reduction by 2022*

The Botanic Gardens and State Herbarium are leaders in work-safety. In March 2014, Gardens' staff reached the milestone of three years without a Lost Time Injury (LTI). Such an achievement can only be made possible through genuine care and respect for the health and safety of all staff. This achievement has been publicly acknowledged and staff thanked for their consideration of one another.

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## Target 24: Volunteering

*Maintain a high level of formal and informal volunteering in South Australia at 70% participation rate or higher*

Volunteer activity has remained vital to the Botanic Gardens and State Herbarium with over 45 000 hours contributed in 2013-14. The contribution of volunteers should not be underestimated, they work tirelessly across the three Gardens, in the State Herbarium and South Australian Seed Conservation Centre, with the Friends of the Botanic Gardens, across education programs and with the Adelaide Botanic Gardens Foundation.

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## Target 28: Aboriginal leadership

*Increase the number of Aboriginal South Australians participating in community leadership and in community leadership development programs*

Indigenous consultation has been a major component for development of the interpretive plan and interpretative materials for the First Creek Wetland development, with indigenous plant use and significance highlighted. Community and school education initiatives incorporate traditional plant knowledge into activities and resources and through the engagement of traditional guides and instructors.

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## Target 31: Chairs of boards and committees

*Increase the number of women chairing State Government boards and committees to 50%*

The Board of the Botanic Gardens and State Herbarium remains committed to the target of increasing the number of women chairing State Government boards and committees by 50%. Judy Potter has chaired the Board of the Botanic Gardens and State Herbarium since July 2010 and in 2013-14 the Board's membership was made up of three men and five women.

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**Target 32: Customer and client satisfaction with government services**

*Increase the satisfaction of South Australians with government services by 10% by 2014, maintaining or exceeding that level of satisfaction thereafter*

A visitor perception survey conducted at Adelaide Botanic Garden in May 2014 indicates that customers and clients are very satisfied with the services offered by the Gardens, with an average satisfaction rating of 6.1 out of seven.

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**Target 61: Energy efficiency – government buildings**

*Improve the energy efficiency of government buildings by 30% by 2020*

The Board of the Botanic Gardens and State Herbarium is constantly seeking new ways to improve the energy efficiency of buildings across its sites, with much of the maintenance of the Goodman Building and the State Herbarium building (Tram Barn A) targeted at energy efficiency. Energy efficient heating and cooling has been installed where required and LED lighting has been utilised throughout public spaces. The heat in the glass houses at the Mount Lofty Botanic Garden Nursery has also been reduced on a trial basis.

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**Target 65: GreenPower**

*Purchase renewable energy for 50% of the government's own electricity needs by 2014*

A 75 kilowatt solar panel system has been installed on the roof of the State Herbarium building (Tram Barn A) providing renewable energy for the administration offices at Adelaide Botanic Garden and the State Herbarium.

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**Target 69: Lose no species**

*Lose no native species as a result of human impacts*

The work of State Herbarium and South Australian Seed Conservation Centre aims to lose no native species by increasing knowledge, conducting scientific research and collecting seeds from South Australia's threatened native species ex situ. The Seed Bank currently stores 64% of South Australia's threatened flora (up from 61% last year). The State Herbarium provides ongoing authoritative data and advice on the identification and presence of threatened species in the state.

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**Target 72: Nature conservation**

*Increase participation in nature conservation activities by 25% by 2015*

The Garden's education program is working with 16 South Australian schools for the purpose of stewardship, education, scientific discovery and the re-introduction of threatened species, directly increasing nature conservation activities in 2013-14.

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**Target 73: Recycled stormwater**

*South Australia has the system capacity to harvest up to 35 GL of stormwater per annum by 2025*

The First Creek Wetland and Aquifer Storage and Recovery Project will secure water sufficiency for Adelaide Botanic Garden and Botanic Park while improving the water quality of First Creek before it enters the River Torrens.

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**Target 86: Psychological wellbeing**

*Equal or lower the Australian average for psychological distress by 2014 and maintain thereafter*

The Botanic Gardens of South Australia continue to provide a refuge for generations of visitors. Visitor surveys demonstrate that people visit the Gardens to learn about plants, walk and exercise. Botanic Gardens activities, sites and programs, such as the Kitchen Garden Program and Garden of Health, encourage people to learn about plants and their importance to physical and mental health and wellbeing.

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**Target 93: Tertiary Education**

*Increase the proportion of South Australians aged 15-64 participating in tertiary education and training to 17% by 2016*

The Australian Centre of Horticultural Excellence has delivered CERT II and CERT III courses in Horticulture to over 40 students in 2013-14, in partnership with TAFE SA. It is a strategic priority for the Board to deliver a high quality horticultural education program to South Australians and make it accessible to as many participants as possible.



# Highlights, operations and initiatives

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## The year in review



- Enhance our collections
- Create and showcase beautiful gardens
- Make our collections accessible

### 2013-14 highlights

- More than 100 seed collections deposited in the South Australian Seed Bank
- 64% of South Australia's threatened flora stored in the Seed Bank (up from 61% last year)
- Seed collections made from 41 species of orchids
- More than 30 000 plants propagated in the Mount Lofty Botanic Garden Nursery, including 1000 plants for the Sand Cave Conservation Park near Naracoorte
- 250 species of flora from the Murray region loaded to the Seeds of South Australia website
- Successful germination protocols developed for nine plant species for the Coorong Lower Lakes Murray Mouth Recovery Project
- Several field trips to the Alinytjara Wilurara region undertaken resulting in the identification and collection of threatened species from the peak of Mount Woodroffe and the Great Victorian Desert. These field trips were focused on safeguarding wild seed from Eucalyptus species and resulted in new contacts and partnerships with ecologists and Aboriginal communities in the region
- Seed biology of 40 local plant species investigated for reintroduction at the Kanmantoo Restoration Project in partnership with Hillgrove Resources
- 400 Monarto mintbush plants raised from seed for reintroduction projects as a result of germination research on the species.
- Review, documentation and mapping of tree collections completed at Adelaide and Wittunga Botanic Gardens
- Successful propagation of leaf cuttings from the corpse flower (*Amorphophallus titanum*)
- Review of the Botanic Gardens and State Herbarium Collections Policies undertaken
- Focus Collection Policies written for Southern Hemisphere Conifers and the Rhododendron Collection
- Over 1300 images contributed to the Global Plants Initiative Type Imaging Project, enhancing access and use of the Herbarium collection
- More than 1 000 000 page views to the Electronic Flora of South Australia web-site eFloraSA ([flora.sa.gov.au](http://flora.sa.gov.au)) making it one of the main access points for information provided by the State Herbarium.

The Botanic Gardens and State Herbarium are part of an international community of collections based cultural and scientific institutions. The Board is the custodian of a unique collection of living, preserved and cultural items that represent the botanical heritage of South Australia.

Living collections make South Australia's three botanic gardens places of aesthetic appeal, inspiration and enjoyment. The preserved specimens of plants and seeds held in the State Herbarium and South Australian Seed Conservation Centre are of international importance and drive botanical research and landscape restoration programs, while the cultural collections comprise of art works, sculptures, photographs and memorabilia that connect visitors to the cultural heritage of South Australia.

The intrinsic knowledge held within and about the collections underpins educational, historic, cultural and scientific programs. The initiatives set out under this theme outline how the Botanic Gardens and State Herbarium fulfils its charter to demonstrate the central role plants play in health, wellbeing, food, water and energy security, and climate change.

### Global Plants

Global Plants (previously the Global Plants Initiative) is an international scientific database hosted online by JSTOR/Ithaka. It is a community-contributed collection of high-resolution images of plant type specimens from hundreds of herbaria across the world. It enables subscribers

to easily view important and fragile specimens at their desk and is currently about two million specimens strong.

As a Global Plants partner, the State Herbarium has contributed over 1300 images and their associated metadata. Many of the remaining type specimens have been imaged and are awaiting the data component to be finalised. The Herbarium is also working with the herbaria in Darwin and Alice Springs to assist with their involvement in the project. Specimens from Alice Springs are being imaged in Adelaide and training has been provided in Darwin for the use of equipment and workflow. Ongoing support is being provided to both institutions.

The facilities based in the Herbarium are mirrored at five other state herbaria in Australia and two herbaria in New Zealand. A high-resolution, inverted, flatbed scanner, designed specifically for capturing digital images of herbarium specimens, and a high resolution, medium format digital camera are housed on site, unlike many other Australian and New Zealand herbaria that have the camera only. Investigations are underway to explore how these facilities can be leveraged.

Image capture is just one component of the project. Delivered with every specimen image is a datafile detailing the collection and identification history of the specimen, and how that pertains to the naming of the taxon the specimen typifies.

Staff and Honoraries across the Herbarium are involved in this project in some capacity.



Demonstration of type imaging at the State Herbarium

## South Australian Seed Conservation Centre

South Australia has more than 800 threatened native plant species. The South Australian Seed Conservation Centre strives to safeguard these species from extinction. The Centre is staffed by a team of scientific-minded seed hunters who regularly trek into South Australia's most remote locations to find and collect seeds of species at risk. These seeds are then returned to the Seed Bank at Adelaide Botanic Garden for storage.

In 2013-14, the percentage of threatened plant species conserved reached 64% (up from 61% in the previous year).

While safeguarding seeds from threatened species, staff at the Centre also study the seed biology and germination requirements for South Australian flora. The Centre provides assistance to several restoration programs by identifying the germination requirements of species that are difficult to propagate and providing seedlings for planting.

The Centre is a partner in the Australian Seed Bank Partnership – a national effort to conserve Australia's native plant diversity, to which it contributes considerable knowledge, experience and resources.

Current areas of activity for the Seed Centre include:

- Capturing seed images for the Seeds of South Australian website through a generous donation
- A one year project supported by Native Vegetation Council, 'Ex-situ collections of Threatened Orchids in the South-East', which involves collecting seeds from 41 species of orchids

- Two three year projects, supported by the Native Vegetation Council, 'Propagation of Ericaceae species for on-ground restoration' and 'Germination Trials of Chorea species in order to propagate plants for reintroduction for restoration projects'
- Germination and propagation research for the Coorong Lower Lakes Murray Mouth Recovery Project. This three year project aims to develop successful germination methods for at least 24 regional plant species that are difficult to propagate through seed. Currently seed collections have occurred from 20 species with successful germination protocols developed for nine species

## American Alliance of Museums

The Board of the Botanic Gardens and State Herbarium maintain accreditation in the American Alliance of Museums (AAM). AAM accreditation is a mark of distinction for the Board, reinforcing integrity, authority and international standing.

Re-accreditation (scheduled in 2020) involves a constant process of review to ensure the rigorous maintenance of high professional standards in collections management and ongoing improvement.

In 2013-14, a review of Collections Policies was conducted and as a result a number of Focus Collections Policies were developed.

## First Creek Wetland

The First Creek Wetland in the south-east corner of Adelaide Botanic Garden has been developed to help the community learn about wetlands, how they work and why they are important, especially in an urban environment.



Thai Te and Denzel Murfet collecting seeds along the Anne Beadell Hwy in the Great Victoria Desert



The First Creek Wetland at Adelaide Botanic Garden

The First Creek Wetland was officially opened on 22 November 2013 by Minister Ian Hunter and received prominent recognition and acclaim through the media.

Over time, the First Creek Wetland will form an important part of the water security plan for Adelaide Botanic Garden. In five to eight years, the wetland is expected to recover up to 100ML of water a year from the aquifer, enough to irrigate Adelaide Botanic Garden.

Stormwater will be diverted from First Creek as it enters the garden, treated through the wetland, and then stored in and subsequently recovered from an underlying aquifer.

The First Creek Wetland vegetation collection holds over 60 000 plants, many of which are Australian natives. Some are rare and endangered plants from South Australia which have been grown from seeds collected by the South Australian Seed Conservation Centre.

There are pathways and viewing platforms in and around the wetland, and educational signs and other materials explain the wetland and aquifer system. Universal access to the deck is available.

Key design features include:

- A sedimentation pond to limit the quantity of sediment entering the macrophyte zone
- A macrophyte zone planted with wetland plants to improve the quality of water prior to injection into the aquifer
- A mechanical filtration system to further improve water quality
- A storage pond to provide storage of water retrieved from the aquifer for irrigation
- An irrigation pump station to deliver water into the existing irrigation network.

#### **Continued improvement to our Gardens**

Over the course of 2013-14, a number of maintenance projects have been undertaken to showcase collections. Projects include:

- Removal of the aged Wisteria Arbor (May 2014) at Adelaide Botanic Garden with replacement planting scheduled for September 2014
- Upgrade of Economic Garden pathways and edging to improve accessibility at Adelaide Botanic Garden
- Refurbishments to the Simpson Kiosk and Botanic Gardens Restaurant
- Rebuild of the Francis Arbour at Adelaide Botanic Garden
- Irrigation replacement for the Rhododendron Gully main line in Mount Lofty Botanic Garden



- Irrigation valve replacement completed throughout Wittunga Botanic Garden, allowing staff to deliver irrigation programs more efficiently

### **Making our collections accessible**

The Botanic Gardens and State Herbarium work with a number of collections databases. The Board aims to integrate the various databases to provide users with a simple, unified view of collections.

As reported in the 2012-13 Annual Report, work is continuing to ensure the 2017 timeframe for this project is met.

Progress in 2013-14 includes:

- Upgrading the Botanic Gardens of South Australia website ([botanicgardens.sa.gov.au](http://botanicgardens.sa.gov.au)) with a greater focus on providing plant-based information to the public. Work has begun to integrate the catalogue of plants database into the website. This will allow the public to access the entire collection both current and historical.
- Collecting spatial information about Living Collections. Significant specimens have been represented in a GIS survey. This information can be migrated into the spatial module of BG-BASE with relative ease.
- Training all staff in the use of BG-BASE, the gardens collections database. In addition a new application, catalogue of plants, has been developed and made accessible to all staff and a significant number of volunteers. The catalogue of plants allows all databases to be queried from a single portal.
- Adding to the Seeds of South Australia website including information about South Australian flora with a focus on seed biology. The site is currently under construction and is being augmented with species from the Murray Region thanks to support from Natural Resources South Australia Murray Darling Basin. There are now 250 Murray species loaded with seed images and information available.
- Receiving 1 040 902 page views on the Electronic Flora of South Australia web-site, eFloraSA ([flora.sa.gov.au](http://flora.sa.gov.au)) or 2853 views per day. The site has become one of the main access points for information provided by the State Herbarium and provides access to the South Australian Census of Plants, Fungi and Algae, detailed species fact-sheets for south Australian vascular plants and algae, as well as online identification tools.
- Collecting data for Australia's Virtual Herbarium, an initiative of the Council of Heads of Australasian Herbaria (CHAH, [www.chah.gov.au](http://www.chah.gov.au)) hosted by the Atlas of Living Australia ([www.ala.org.au](http://www.ala.org.au)).
- Compiling real-time online census of South Australia's plants, algae and fungi to summarise current taxonomic knowledge of these groups, their regional distribution and native or naturalised status. This is based on specimens being deposited in the Herbarium's collection. Authoritative data on conservation and declared weed status are added from external sources. The taxonomic work that underpins the census is significant as each new species or change to a species name must be cross referenced to the national and international rules.
- Contributing to the Australian Plant Census Working Group and other related groups to develop a single consensus summary of Australia's native and naturalised plants to facilitate delivery of State censuses and Australia's Virtual Herbarium.
- Upgrading ADHERB (herbarium information management database) which houses approximately 800 000 records of the more than one million specimens held in the herbarium collection. Staff have been working with programmers to improve data delivery to external users such as Australia's Virtual Herbarium. Funding has been identified to undertake the next stage of the database upgrade. This exciting development will enhance the availability of data from the herbarium and facilitate improved collections management.





## Knowledge

- Know our collections
- Enhance knowledge of plants
- Learn from others

### 2013-14 highlights

- Botanic Gardens staff trained in Living Collections database, with continuous updates being made
- Plant Selector+ website ([plantsselector.botanicgardens.sa.gov.au](http://plantsselector.botanicgardens.sa.gov.au)) launched by the Lord Mayor of Adelaide Stephen Yarwood
- An online Evidence Base on Green Infrastructure in South Australia launched by the Green Infrastructure Project
- A Green Infrastructure survey conducted to determine South Australian community awareness of the topic. More than 85% of respondents deemed Green Infrastructure to be very important
- The first stage of the Green Infrastructure mapping project completed in collaboration with the University of South Australia. A number of functions were mapped into a spatial database, with the objective of achieving a comprehensive mapped overlay of the various forms of green infrastructure within greater metropolitan Adelaide
- Seven articles published by The Journal of the Adelaide Botanic Gardens, one of five botanical journals published by Australian herbaria ([flora.sa.gov.au/jabg](http://flora.sa.gov.au/jabg))
- Six chapters on plant families were published online in the new fifth edition of Flora of South Australia, totalling 204 species ([flora.sa.gov.au/ed5](http://flora.sa.gov.au/ed5))

The Botanic Gardens and State Herbarium share their knowledge in an effort to connect people with plants. The knowledge of Garden and Herbarium staff is unrivalled and revered nationally and internationally.

The Garden and Herbarium continue the tradition of working with innovative thinkers, plant specialists and technicians, and leading institutions to develop and publish scientific papers. Providing leadership through the supervision of student researchers also demonstrates the organisations strong desire to remain at the forefront of plant knowledge.

### Green Infrastructure

The Botanic Gardens of South Australia Green Infrastructure Project is working with government, industry and community partners to achieve our vision, South Australians living in healthy, resilient and beautiful landscapes that sustain and connect people with plants and places.

Green Infrastructure is hosted and managed by the Botanic Gardens of South Australia and funded through a partnership between Renewal SA, Natural Resources Adelaide and Mt Lofty Ranges and the Department of Planning, Transport and Infrastructure. Additional grant funding for the development of the web resource, Plant Selector+, has been provided by the Local Government Research and Development Scheme.

Green Infrastructure describes the network of green spaces and water systems that deliver multiple environmental, economic and social values and benefits. Green Infrastructure includes parks and reserves, backyards and gardens, waterways and wetlands, streets and transport corridors, pathways and greenways, squares and plazas, roof gardens and living walls, sports fields and cemeteries. Green Infrastructure provides and connects vital life support systems for urban environments.

The value and benefit of integrating Green Infrastructure into urban design, planning and development has been presented and communicated to diverse international, national and local audiences. Presentations include:

- a. United Nations Economic and Social Commission for Asia and the Pacific (ESCAP) in Bangkok, Thailand, July 2013
- b. TREENET Symposium, Adelaide, South Australia, September 2013
- c. Greenhouse 2013: the Science of Climate Change national conference, October 2013
- d. The Australian Centre of Horticultural Excellence Master Class, November 2013
- e. Advanced Geographic Information masters students, University of South Australia, March 2014
- f. Final year Architecture and Landscape Architecture students, University of Adelaide, March 2014
- g. Primary school students, World Environment Day workshops, June 2014.

The Green infrastructure Evidence Base, a review of research and literature from around the world, was transposed into a searchable online document during 2013. This was made possible through a full-time three-month internship student and the resource was featured in and promoted by the national 2020 Vision project.

In early 2014 development of Plant Selector+, a web resource to assist local government, was completed. The online tool will assist design professionals and residents in the selection of suitable trees and other plants for urban locations throughout South Australia.

Both the Green Infrastructure Evidence Base and Plant Selector+ were officially launched by the Lord Mayor of Adelaide, Stephen Yarwood, on 19 June 2014 to an audience including project partners, local government and industry professionals. These resources have attracted considerable media coverage and are highly acclaimed.

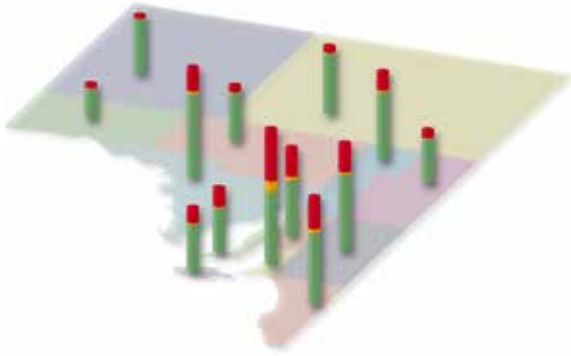
Regular comment and advice is provided by the Green Infrastructure team for government planning and policy responses to various planning processes and issues papers. Examples include the Riverbank Health and Entertainment Areas, SA Urban Design Charter, Buckland Park, Lightsview, and numerous local government development planning amendments.

A survey of industry and local government professionals was undertaken in 2013 to determine the level of interest in and understanding of Green Infrastructure. This has led to development of a more comprehensive engagement strategy to guide the future delivery of Green Infrastructure in South Australia. Full results of the survey are on the Green Infrastructure page on the Botanic Gardens of South Australia website, [botanicgardens.sa.gov.au](http://botanicgardens.sa.gov.au)

The benefit of Green Infrastructure is evident and the program is a highly valued source of information and knowledge for local, national and international audiences.

### **WEEDS Map**

The SA Census ([flora.sa.gov.au](http://flora.sa.gov.au)) keeps track of all native and naturalised plants in the State. It is one of the major online resources maintained by the State Herbarium of South Australia, which is continuously updated by Herbarium botanists. There are currently 4960 taxa (species, subspecies and varieties) in the state, of which 1267 taxa (25.6%) are weeds. A further 251 taxa (4.7%) are questionably naturalised. Including these, the total for alien taxa is 1518 (30.3%), or almost one third of plants found in South Australia. Mapped onto the State's botanical regions (see figure), it is possible to see that the lowest number of weeds is found in the North-West (6%). The highest number of alien plants is present in the densely populated Mount Lofty ranges (46%).



Map of plant species in South Australia by State Herbarium region: native (bottom of bars), questionably naturalised (middle bar) and naturalised plants (top bar).



Seed hunters Dan Duval and Cath Dickson in Topperwein swamp

## Publications

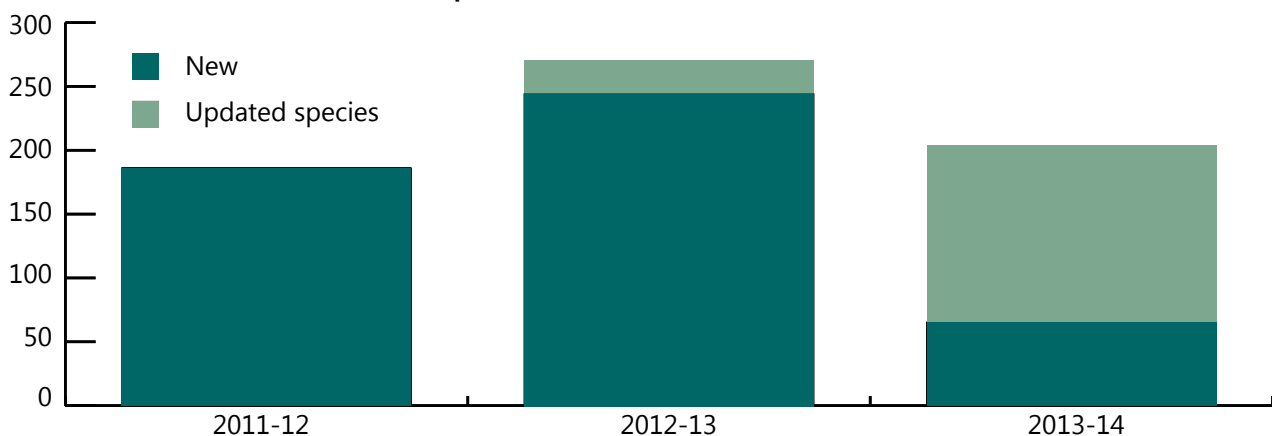
The *Flora of South Australia* describes all known native and naturalised vascular plant species in the state. It is the basic taxonomic work on which many other researchers, agencies and the general public rely. Flora chapters can be downloaded from [flora.sa.gov.au/ed5](http://flora.sa.gov.au/ed5)

Chapters for the new, fifth edition of *Flora of South Australia* continue to be edited and published. This year treatments of six plant families with a total of 204 species were made available online. The largest chapter was the first part of Asteraceae (daisies), describing and illustrating 66 species. This compares to nine families comprising 270 species in the 2012-13 financial year.

The *Journal of the Adelaide Botanic Gardens* publishes research articles in systematic botany, botanical history and related fields. The Journal is peer-reviewed and meets international editing standards. It is distributed mainly by exchange to interstate and overseas institutions. The current volume and all back issues can be accessed at [flora.sa.gov.au/jabg](http://flora.sa.gov.au/jabg)

Volume 26 of the Journal was published online during 2013. The printed edition was produced in May 2014 and distributed to exchange partners; it is now printed in full colour and also featured a watercolour plate of a new species. Volume 27 is currently being published online. During 2013-14, seven articles were published in the Journal.

## Flora of South Australia: species numbers





## Sharing

- Share our knowledge of plants
- Share our space and gardens
- Share stories about our gardens

### 2013-14 highlights

- 675 media mentions across print, radio and television
- Development of a monthly e-newsletter, with a current subscription list of 2500
- Professional Development provided to 177 South Australian school teachers
- Workshops, performances and education sessions delivered to 1000 students, parents and teachers during National Water Week in October 2013
- World Environment Day (5 June 2014) provided information and activities to more than 3000 school students in Adelaide Botanic Garden
- Liaised with over 180 community groups regarding community gardening
- Delivered seven Kitchen Garden workshops
- 500 people attended the Kitchen Garden Film Festival at Adelaide Botanic Garden
- Public Rose Pruning Demonstration held in the International Rose Garden by the Rose Society of South Australia with 200 participants
- Public Judging of Roses in the National Rose Trial Garden supported by the National Rose Trial Committee with 100 participants
- Developed a blog for the Friends of the State Herbarium of South Australia, informing them about events of the State Herbarium, new publications and interesting plants ([know.ourplants.org](http://know.ourplants.org))
- Held tours in the State Herbarium in conjunction with Open House Adelaide in May 2014, as well as to many other groups throughout the year
- Trained more than 100 final year University undergraduate students from The University of Adelaide and Flinders University in herbarium practices and the use of herbarium materials

#### Education at Adelaide Botanic Garden

The Adelaide Botanic Garden Schools Education Program continues to deliver high-quality curriculum-linked learning programs, events and performances to South Australian schools. The program utilises the collections at Adelaide Botanic Garden as a living museum for learning about plants, people and culture.

The program is a partnership between the Department for Education and Childhood Development (DECD) and the Botanic Gardens of South Australia, and is coordinated by an Education Manager seconded from DECD.

In 2013-14, more than 18 000 students took part in education programs. Curriculum linked programs, events, performances and activities throughout the year included:

- Providing a suite of 35 investigation trails for schools with several age level programs in each. The Aboriginal, Science and Sustainability Trail was added in March 2014 and three wetland trail resources are in development. Schools can book a learning session with the Education Manager or book and complete the trails as a self-guided learning session, 45% of the trails are directly linked to the Australian Curriculum in detail and all others reference the Australian Curriculum
- Holding professional learning opportunities for teachers, with six sessions involving 177

participants. Professional learning sessions in conjunction with Adelaide Zoo have been highly successful, attracting excellent feedback from teachers. They are scheduled each school holidays

- Organising World Environment Day (WED) celebrations in Adelaide Botanic Garden, the largest in the state. WED attracted over 3000 students, teachers, presenters and parents in 2014, with activities directly linked to the Australian Curriculum. The event involved 35 presentation stations with a number of these staffed by the Botanic Gardens and State Herbarium. The remaining 22 stations were staffed by external organisations and experts including university professors, TAFE lecturers, conservation experts, government departmental experts, community societies and targeted conservation groups
- Presented workshops, performances and education sessions to over 1000 students, parents and teachers during National Water Week (October 2013), sponsored by SA Water, presented workshops, performances and education sessions to over 1000 students, parents and teachers.

A virtual education iPad application was developed by the Gardens. The app allows students to interact with the gardens using multimedia responses. They can then access their responses back at school. The app will be used by all DECD outreach education institutions.

### **Kitchen Gardens in South Australia**

The Kitchen Garden program is a collaborative partnership encouraging people to create their own connection between food, plants and culture. The aim is for South Australians to grow, harvest, cook and share food together.



Community Kitchen Gardener Matt Turner tending to Barkuma's Kitchen Garden at Holden Hill

Partners and supporters include the Botanic Gardens of South Australia, the Department for Environment, Water and Natural Resources, the Department for Education and Child Development, the Nursery and Garden Industry South Australia and Santos.

The Kitchen Garden program develops a social, cultural and environmental understanding of where food comes from, with a horticultural, cultural and global perspective. The program promotes the development of kitchen gardens in homes, schools and communities in South Australia.

More information on this project, including the location of community gardens, gardening and cooking tips, upcoming workshops and events, can be found on the Kitchen Gardens SA website, [kitchensgardenssa.com.au](http://kitchensgardenssa.com.au)

Achievements in 2013-14 include:

- Managing 187 enquiries regarding community gardening across South Australia
- Providing assistance to the Australian Red Cross, STTARS, DEWNR, Barkuma and the Department of Community and Social Inclusion in setting up community gardens
- Delivering workshops in Garden Woes, Beekeeping, Starting a Community Garden, Community Gardens on Council Verges, School Kitchen Gardens, Planting a Winter Vegetable Garden and Growing Fruit Trees in Small Spaces
- Providing a tour for 20 people to established community gardens across metropolitan Adelaide
- Presentating to Santos, Campbelltown Council and Adelaide City Council on the power of community gardening
- Producing a community kitchen gardens video to share the benefits of kitchen gardens through social media

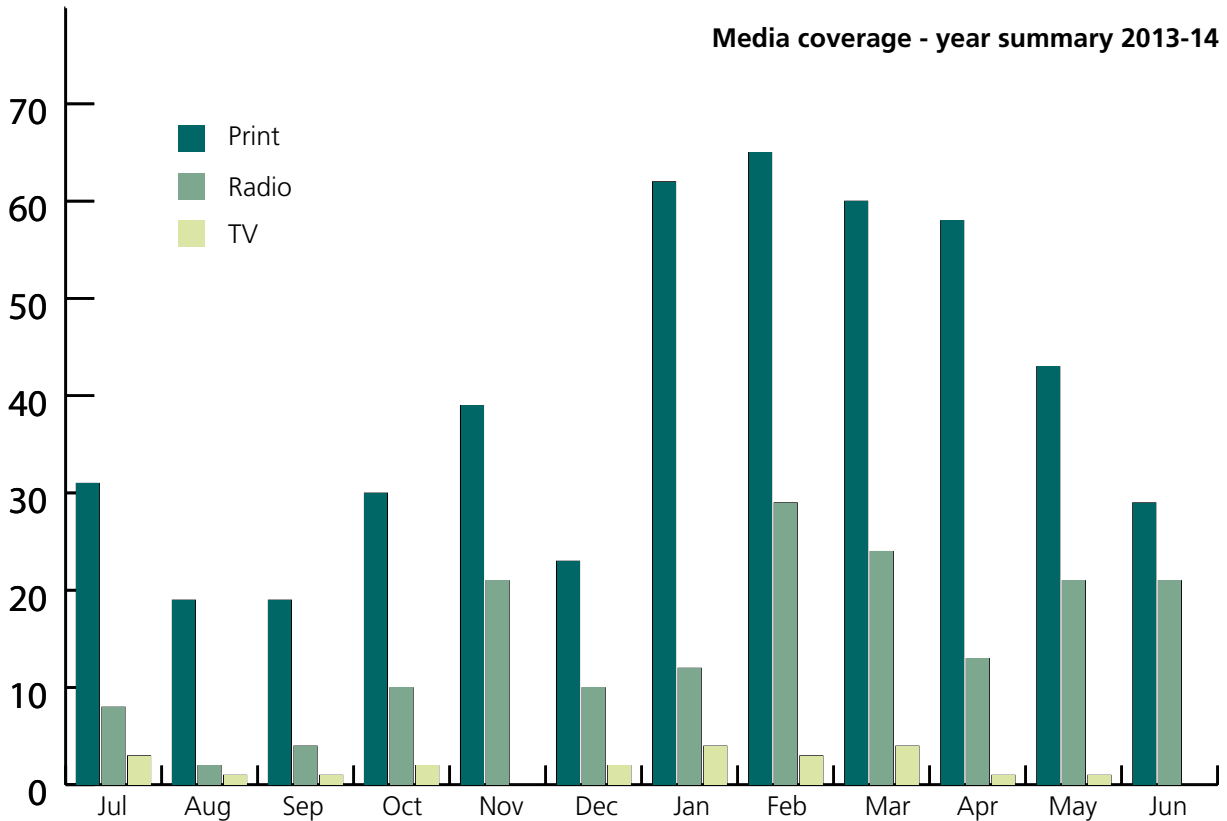


World Environment Day Celebrations at Adelaide Botanic Garden



## Media recognition

The knowledge of the Botanic Gardens and State Herbarium is highly sought after by local and national media. Media provides a free public voice for the Gardens and Herbarium to communicate to the public. The Gardens averaged two media mentions per day throughout 2013-14.



## Digital strategy and activities

A digital media content plan was developed to schedule and track communications across Facebook, Twitter, YouTube, Instagram and Botanic Gardens of South Australia blogs. As a result, a minimum of five social media posts are sent every seven day period in accordance with the relevant analytics regarding audience age, interest and activity.

Presence on social media via Facebook and Twitter is achieving a reach of over 2 million people per year.

### Social media audience as of 30 June 2014

Facebook	3415 followers
Twitter	230 followers
Instagram	72 followers
YouTube	108 videos with 4986 views

Work on the Botanic Gardens website ([botanicgardens.sa.gov.au](http://botanicgardens.sa.gov.au)) is progressing with key achievements including:

- Development of a new menu structure to highlight key areas of business
- Incorporation of external content into the primary website, including the Adelaide Botanic Gardens Foundation and Friends of the Botanic Gardens
- Development of a subscription form for the Botanic Gardens of South Australia e-newsletters
- Weekly blog updates with useful gardening and horticultural information
- Development of high-quality plant-based content including information, activity trails, how-to videos and gardening advice

Work has continued to develop virtual tours through the MyParx app. To date the Gardens has developed eleven tours on the MyParx system, with a Lakeside Trail at Mount Lofty Botanic Garden underway.

MyParx is free a mobile app that allows people to find and explore parks of interest. People can discover the secrets of their favourite parts of the gardens through exploring up-to-date information, interactive maps, and personal guided tours.

MyParx is location-aware allowing the general public to take interactive, guided tours through an iPhone, iPad or Android device with a data connection.

### **A blog for the Herbarium**

This year a blog was started for Friends of the State Herbarium ([know.ourplants.org](http://know.ourplants.org)), which enables Herbarium volunteers and knowledgeable members of the public to stay in touch with the organisation's activities. Established at the end of 2013 by Hon. Research Associates, blog posts include news from the Herbarium, announcements of talks, and new publications. Staff members and volunteers of the Herbarium are also contributing with short reports and images of notable species, or interesting facts about plants and the environment. Views of the blog have increased steadily and there are currently 90 subscribers receiving automatic email up-dates. 35 blog posts were published in 2013-14. This is one way the State Herbarium successfully interacts with volunteers and the wider community.

### **Mount Lofty Botanic Garden Visitor Pavilion**

The Mount Lofty Botanic Garden Support Group secured the agreement of the School of Art, Architecture and Design at the University of South Australia for their third year architecture students to design a Visitor Pavilion as part of the 2013 curriculum.

From the 100 designs produced by the students the winning design, by Sam Chua, demonstrates a real charm and affinity with the aesthetic and scientific values of the garden. Its organic curves enable the pavilion to nestle comfortably into the side of the hill in a wonderful site overlooking the Lake.

A Visitor Pavilion will provide a covered area for visitors to meet and rest, and a space in

which to interpret the significant scientific plant collections of the garden. The value of the garden as a scientific, community, educational and recreational resource is unlimited and must continue to enrich the lives of future generations.

A Visitor Pavilion Appeal was launched in December 2013. Pledges have already been received from the Adelaide Botanic Gardens Foundation (\$25 000); Friends of the Botanic Gardens (\$25 000); Board of the Botanic Gardens and State Herbarium (\$25 000 in 2015 - funds permitting) and the Adelaide Hills Council (\$5 000). Considerable in kind support has also been pledged.

This innovative project has been proposed by the Mount Lofty Botanic Garden Support Group and developed in close collaboration with the Adelaide Botanic Gardens Foundation, the Board of the Botanic Gardens and State Herbarium and the Friends of the Botanic Gardens.

The Mount Lofty Botanic Garden Support Group are still seeking the support of the broader community to achieve the \$300 000 target.

Interpretation signage has now been installed on the proposed site with the assistance of David Gilbert and John Nowland Design.



The proposed Mount Lofty Botanic Garden Visitor Pavilion

## **Santos Museum of Economic Botany**

The Santos Museum of Economic Botany (SMEB) in Adelaide Botanic Garden originally opened in 1881 and is dedicated to the collection and interpretation of important plants throughout history.

The internationally unique Santos Museum of Economic Botany showcases and presents a rich and diverse exhibition program focussing on the Gardens own collections and those of South Australia's significant cultural institutions and artists. As a theatre of public instruction, the Museum provides the perfect platform to make strong connections between plants, people and culture, entering into a dialogue with the community around the notions of loss of biodiversity, the avoidance of waste and learning from other cultures.

The Museum houses regular exhibitions. Exhibitions in 2013-14 include:

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### **Garden/Archive**

*2 September – 29 September 2013*

Garden/Archive was the culmination of a PhD research project by Melbourne-based photographer Jessica Hood. The exhibition explored the idea of the garden as a living archive, through relating photography to an experience in the garden itself. The Botanic Gardens of South Australia provided access to its collections for Jessica to draw and the end result was a unique look at Adelaide Botanic Garden.

A centrepiece of the exhibition was Equinox which captured the Palm House, an icon of Adelaide Botanic Garden, as it has never been seen. Taken on the September equinox of 2011 and the March equinox of 2012, this work tracks the sun in relation to the glass surface of the Palm House. A photograph was taken every four and a half minutes and each photograph is projected for four and a half minutes.

Another element of the collection was a series of black and white glass lantern slides of trees, taken in Adelaide Botanic Garden around 1920. Hood produced a new series, this time as colour transparencies of the trees as they appear today, connecting the photographer of today with those of the past.

This work will form part of the Botanic Gardens

archive and be available for future research and inquiry. PhD examiners assessed the exhibition on the day of the September Equinox and Ms Hood's PhD was conferred in 2014. 5 500 people visited the SMEB during the exhibition.

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### **Coco de Mer**

*19 October 2013 – 16 March 2014*

The Santos Museum of Economic Botany is full of interesting plant specimens, seeds and objects. Each seed could be the basis for an exhibition (consider tea, coffee and opium to name a few) and it was with that thought that Coco de Mer by Jacques Charoux was born. The artist created a tremendous body of work focusing on a single seed, the world's largest seed, Coco de Mer.

The interesting seed originates from two islands in the Seychelles which were uninhabited until colonisation in the 18th Century. When sailors encountered an unusual object floating in the sea, and of no known origin, a myth of an undersea world began. The shape of the seed resembled a mermaid's bottom, at least to lonely sailors.

The uniqueness and scarcity of the Coco de Mer led to the seed becoming extremely valuable and coveted, especially by the nobility. To the serious collector it was a desirable addition to the 'Wunderkammer' or 'Cabinet of Curiosities' and in many 19th Century Museum collections. An example of Coco de Mer was sent to Adelaide from Kew Botanic Gardens on 15 June 1882 and one is shown as part of the Plant Families display in the Museum.

Today, the Coco de Mer is a rare and protected species. The source of origin is now a National Park and World Heritage site with collection of the seeds, which take many years to form, strictly regulated and controlled.

The exhibition attracted 29 000 visitors.

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### **Urplanze Street Plants**

*11 April – 14 September 2014*

Urplanze Street Plants was hosted in the Santos Museum of Economic Botany as part of the 2014 Adelaide Biennial of Australian Art. In this exhibition Caroline Rothwell creates a series of 'uberweeds', referencing Goethe's eighteenth

century theory of the Archetypal Plant or Urpflanze. One example in particular features a plant form created from specimens collected by Ben Quilty, a war artist in Afghanistan, which have been embroidered on Australian soldiers camouflage.

A centrepiece of the exhibition is Newton's Tree, a three metre black PVC sculpture, which contradicts the warmth and richness of the Museum's cabinets but also highlights that fossil fuels were once plants too.

Caroline Rothwell is an important Australian artist, her work featured prominently in the 2014 Adelaide Biennial of Australian Art at the Art Gallery of South Australia.

It's worth noting that April 2014 was our busiest Month on record with over 7000 visitors to the Museum.

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**Patricia Piccinini's Skywhale, hovering above the lawns in front of the Santos Museum of Economic Botany**

*1 March 2014*

Heralding the 2014 Adelaide Biennial of Australian Art at the Art Gallery of South Australia the Botanic Gardens of South Australia was fortunate enough to host Patricia Piccinini's Skywhale.

In Piccinini's hot air balloon sculpture, Skywhale (a registered aircraft) there is an obvious link to the broader natural world and the issues of evolution and biodiversity. This spectacle captured interest by provoking curiosity in the bigger picture, it encouraged the use and enjoyment of Adelaide Botanic Garden by promoting its educational, historical, cultural, scientific and recreational values. The blend of art, science and culture makes a visit to the Gardens enjoyable, intellectually stimulating and memorable. Skywhale attracted 900 people to the Museum in a single day, a record!

***Imitation of Life: a visual catalogue***

Published in 2013, this important book details the history and significance of an obscure collection of 19th Century botanical models on display in the Santos Museum of Economic Botany. The German made models, constructed of papier-mache comprise 192 varieties of apples,

129 pears and dozens of plums. These models were some of the first acquired for the Museum in 1866 and had been sitting in storage for over 50 years prior to the restoration of the Museum. Each model is a portrait of the fruit it depicts and in many ways is the only access most people have to these lost varieties. The publication was awarded best book at the Museums Australia Publication Design Awards competition.



*Imitation of Life: a visual catalogue cover*

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**Events at the Gardens**

**South Australian Living Artists Festival (SALA)**

*Adelaide Botanic Garden  
10–31 August 2013*

Since its inception in 1998 the annual SALA Festival has celebrated and promoted the diverse talents of South Australian Living Artists. The Festival is an innovative open access visual arts festival presenting thousands of artists through unique collaborations and exhibitions. The Adelaide, Mount Lofty and Wittunga Botanic Gardens were registered as potential exhibition spaces for SALA. Visual artist and designer James Worth exhibited his artwork in the Australian Native Garden in Adelaide Botanic Garden from 10-31 August 2013. This sculptural exhibition was free for the general public to attend, and attracted a large audience over the duration of the exhibition.

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**Adelaide Youth Orchestra Recital**

*Adelaide Botanic Garden  
15 September 2013*

Each year Adelaide Youth Orchestras' Youth Strings ensemble enchants audiences at a series of outdoor performances around Adelaide. They present a one-hour recital of delightful classical, folk and world music beneath the elegant canopy of the Adelaide Botanic Garden's Schomburgk Pavilion. The 2013 event attracted approximately 200 audience members.

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## **Garden Blitz**

*Mount Lofty Botanic Garden*

*9 November 2013 & 10 May 2014*

The Garden Blitz is an opportunity for volunteers to spend a morning outdoors with friends and family while contributing to the longevity of the picturesque Mount Lofty Botanic Garden. The event, held twice in 2013-14, saw over 140 volunteers roll up their sleeves and get their hands dirty for the benefit of the garden. Volunteers worked alongside Garden's staff and assisted with mulching, soil spreading, weeding and other light gardening. The event was followed by a sausage sizzle to celebrate their contribution.



Volunteers hard at work at the Mount Lofty Botanic Garden Blitz

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## **WOMADelaide**

*Botanic Park*

*7-10 March 2014*

WOMADelaide is held each year in Botanic Park. Commencing in 1992 as the Australian WOMAD festival, it has become one of the nation's favourite outdoor festivals over the past 21 years. It presents unique and extraordinary music and makes use of the beauty of Botanic Park giving the event a peaceful and friendly vibe.

The program features performances and workshops on seven stages by the world's best traditional and contemporary musicians, dancers and DJs, a KidZone activity area, street theatre and visual artists, the Taste the World cooking program, The Planet Talks environmental discussions program, The Electrolounge, Artists

in Conversation and around 100 food, retail and charity stalls.

The environmental and conservational messaging conveyed throughout the festival aligns perfectly with the values of the Botanic Gardens and State Herbarium.

Standout performances in 2014 included Ane Brun, Arrested Development, Billy Bragg, Hiatus Kaiyote and Roberto Fonseca. The event was a great success with over 20 000 attending each day.



Crowds enjoying the 2014 WOMADelaide Festival

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## **Moonlight Cinema**

*Botanic Park*

*28 November 2013 - 16 February 2014*

Moonlight Cinema is Australia's favourite outdoor cinema, showing advance screenings, new release and cult movies on the lawns of Botanic Park. The 2013-14 season was slightly down on numbers largely due to severe weather – both rain and extreme heat causing screenings to be cancelled.

A fundraising screening was held on 10 January, with all proceeds after costs being donated to the Botanic Gardens of South Australia. This year's event raised \$1800 with an opportunity for this to grow in the future.

Botanic Gardens and State Herbarium supporters and stakeholders were invited to a screening of



Blue Jasmine which was held on 31 January 2014 with approximately 150 guests attending.

There were also two dog-friendly screenings held during the season, where patrons could bring their dog, proving very popular with the general public. Overall the 2013-14 season was a success with over 23 500 patrons attending.

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### **International Volunteer Day**

*Adelaide Botanic Garden  
5 December 2013*

Created by the United Nations in 1985, and supported by Volunteers Australia, International Volunteer Day formally recognises all volunteers. With the Botanic Gardens and State Herbarium relying on the support of volunteers throughout the year, this event is an opportunity to thank all who give their time to the Gardens, State Herbarium and the Adelaide Botanic Garden Foundation.

Volunteers were invited to Adelaide Botanic Garden for an afternoon tea, and each received a certificate and Haigh's Chocolates. Evelyn O'Loughlin, CEO of Volunteering South Australia and Northern Territory, presented to the 75 volunteers who attended.

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### **Tomato Festival**

*Adelaide Botanic Garden  
23 February 2014*

Tomato Festival is presented by the Botanic Gardens of South Australia and The Diggers Club. It brings together tomato gardeners and home cooks from across South Australia to share the benefits of home-grown produce, promote the diversity of tomato varieties and embrace the versatile tomato in new ways. It aims to reconnect the community with where their food comes from and encourage people to plant, grow, cook and eat fresh produce.

In its second year, the 2014 event included a home-grown tomato competition, tomato sauce challenge, cooking demonstrations, kids' activities, tomato tasting, workshops and more.

The Tomato Sauce Challenge received 110 entries this year, there were over 30 different varieties of heirloom tomato to taste, and 4 000 people attended the event throughout the day.

Hosted by Amanda Blair, other guests included 891 ABC's Jon Lamb, and ABC Gardening Australia's Sophie Thomson.

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### **Adelaide Fringe Festival Wind in the Willows as told by Mr Badger**

*Adelaide Botanic Garden  
15 February – 3 March 2014*

Adelaide Fringe is an annual open-access arts festival that runs over four weeks in Adelaide, South Australia during February and March.

Unlike a curated festival, the open-access nature of Adelaide Fringe means that anyone with a show, exhibition or cultural event is able to register and be part of Australia's largest arts event.

Each year the Botanic Gardens of South Australia registers its sites as potential venues for Fringe artists. Splash Theatre Company, a professional, independent touring theatre company for young people performed Mr Badger tells the story of Wind in the Willows in Adelaide Botanic Garden during the 2014 Fringe season. The performance was open to the general public as well as school groups, and an extra performance was scheduled in April for the Friends of the Botanic Gardens.

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### **School Holiday Program**

Adelaide Botanic Garden continues to host regular school holiday programs for children, providing high quality nature-based learning. 74 workshops were delivered in 2013-14 with over 1100 school aged children participating.

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### **Other events managed by Blanco Food and Events**

In 2013-14, Blanco Food and Events managed 85 events for the Botanic Gardens with an average attendance rate of 105 people. Some of the highlight events included:

- National Tree Day Tree Planting, Adelaide Botanic Garden, supported by the Friends of the Botanic Garden, July 2013, approximately 100 participants
- SA Road Runners Marathon, Adelaide Botanic Garden, August 2013, approximately 400 participants

- Novita Charity Walk and Party, Botanic Park, 1 September 2013, approximately 300 attendees
- YOGA in the Park, Botanic Park, 20 October 2013, approximately 100 attendees
- BMW Vehicle launch, International Rose Garden, 16 November 2013
- SA Dog Rescue Charity event, Botanic Park, 1 December 2013, approximately 200 attendees
- Novita Christmas Party, Botanic Park, 23 December 2013, approximately 200 attendees
- Reconciliation Celebration, Botanic Park, 13 February 2014, approximately 100 attendees
- SDA Family Day, Botanic Park 15 February 2014, approximately 300 attendees
- Cancer Council Mother's Day walk/fun run through the Adelaide Botanic Garden, 11 May 2014, approximately 1000 participants
- World Environment Day, Adelaide Botanic Garden, 5 June 2014, approximately 2 500 participants

Blanco also managed 212 wedding ceremonies averaging 85 guests at Adelaide Botanic Garden.

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### Interaction with plant societies and plant specialists

- Public Rose Pruning Demonstration, International Rose Garden provided by Rose Society of SA, 28 June 2014, approximately 200 participants
- Public Judging of Roses in the National Rose Trial Garden, International Rose Garden 12-13 April 2014, supported by the National Rose Trial Committee, approximately 100 participants



Swiss tourists relaxing at Adelaide Botanic Garden



A Senegalese wedding at Adelaide Botanic Garden



## Our organisation

- Develop a diversified and sustainable income stream
- Utilise efficient business technologies and processes
- Ensure a world class paid and volunteer work force

### 2013-14 highlights

- 1192 days with no Lost Time Injuries (LTI). The last LTI was recorded on 27 March 2011
- 45 360 volunteer hours donated
- 40 students graduating Certificate II and Certificate III qualifications with the Australian Centre of Horticultural Excellence, a partnership between the Botanic Gardens of South Australia and TAFE SA
- Growth of the Australian Centre of Horticultural Excellence Master Class Program with six master classes presented to 96 participants
- Friends of the Botanic Gardens assuming responsibility for Adelaide Botanic Garden's Visitor Information Centre
- Resurgence of volunteers joining the Friends volunteer program
- Significant upgrades of Adelaide Botanic Garden's Simpson Kiosk and Restaurant
- Irrigation valve replacement completed throughout Wittunga Botanic Garden, allowing staff to deliver irrigation programs more efficiently and enable a shorter response time to significant failures in irrigation lines
- New benches installed in the Mount Lofty Botanic Garden Nursery for more efficient growing
- Installation and fit out of new potting and propagation benches for Master Class delivery in the Mount Lofty Botanic Garden Nursery
- Review and development of a new Business Continuity and Emergency Response Plan. This document replaces hard copies throughout the Gardens and is available electronically
- Installation of two rainwater tanks in the Mount Lofty Botanic Garden Nursery
- Installation of 75Kw solar panel system to the Science Resource Centre
- Installation of a new gas fire suppression system to the State Herbarium

The Botanic Gardens and State Herbarium are treasured South Australian assets and remain world leaders in the fields of science, horticulture, and botanic expertise. Continuing this important work requires a robust business plan and the development of strong community, corporate and philanthropic partnerships.

In light of budgetary pressures, the Gardens and Herbarium rely on goodwill from within the community to maintain a diversified and sustainable income stream. These pressures also force the organisation to continue to seek the most efficient business technologies and processes to maintain effectiveness.

### Volunteering

The number of volunteers providing support for the Botanic Gardens and State Herbarium remains high with volunteer hours at 45 360 in 2013-14 compared to 45 563 hours in 2012-13.

Existing and new volunteers provided support across operations, with a full breakdown on the next page.

Area of volunteer activity	Volunteer hours
Santos Museum of Economic Botany	1 560
Mount Lofty Botanic Garden Nursery	275
Botanic Gardens and State Herbarium Library	271
South Australian Seed Conservation Centre	1 204
Rose Society in the International Rose Garden	875
Events (including Mount Lofty Garden Blitz)	975
Corporate volunteering	175
Friends of the Botanic Gardens of Adelaide	23 305
State Herbarium - General	4 698
State Herbarium – Hon. Research Associate	12 022
<b>TOTAL</b>	<b>45 360</b>

Volunteer activities included:

- Providing support through a full time presence in the Visitor Information Centre at Adelaide Botanic Garden
- Providing continued expertise in the Herbarium with specimen curation, checking and updating nomenclature on vascular plants and liverworts, and scanning of past publications for uploading online
- Assisting with plant propagation and other horticultural duties in the Nursery at Mount Lofty Botanic Garden
- Providing volunteer support for Adelaide Botanic Garden's horticultural staff in the International Rose Garden.

Without the support of volunteers, the quality work of at the Botanic Gardens and State Herbarium would be greatly diminished.



Plant propagator Matt Coulter at Mount Lofty Botanic Garden Nursery. Matt coordinates volunteers to help with plant propagation at the three Gardens sites.

### Volunteers and Hon. Associates in the State Herbarium

The work involved in discovering and describing new species requires hours of undisturbed meticulous observations, measurements and tests and is, more often than not, assisted by decades of knowledge and first-hand experience. The time, care and conscientious effort required to prepare and restore invaluable specimens or decipher and document the hand-written notes of past botanists is considerable. This year the State Herbarium was fortunate to have the highest number of volunteers in its history. The Herbarium could not function without the support and dedicated services of its ten Honorary Research Associates and around 30 volunteers to complete these time-consuming but vital tasks to the highest standards. The products of their work include demystifying the hundreds of species of our State's mega-diverse marine algae with eye-catching fact sheets; revealing the diversity of South Australian fungi and providing critical identifications for cases of poisoning; documenting the knowledge and tools to deal with some of our most invasive pest plant species as well as inspiring and educating departmental staff, support groups, students and the public.

## Partnerships

Aside from funding received from the South Australian Government, the Botanic Gardens and State Herbarium rely on the generosity of government agencies, corporate partners, individuals and the community. Philanthropic support is critical to enhance facilities and services provided by the Gardens for the community and to support research in new fields of conservation, ecology and botany.

Many of the successes and achievements over the past year would not have been possible without their support.

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### Major Sponsors

#### Santos

Santos Museum of Economic Botany, Community Kitchen Garden program and the South Australian Seed Conservation Centre

#### SA Water

SA Water Mediterranean Garden

#### WorkCoverSA

Garden of Health

#### Thyne Reid Foundation

Garden of Health

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### The Board acknowledges the support of these Major Sponsors

#### Program Sponsors

ElectraNet  
Urban Renewal Authority  
Adelaide and Mount Lofty Ranges NRM Board  
South Australian Research and Development Institute  
Coopers Brewery  
Lobethal Bierhaus  
Neutrog Fertilisers  
ATCO Company

#### Event Sponsors

Orlando Wines  
Forage and Feast  
Lobo Cider  
Royal Agriculture and Horticultural Society  
Diggers Club

The Board also works closely with State Government agencies, and acknowledges:

- DEWNR and the Department of Planning, Transport, Energy and Infrastructure (DPTEI) for continued support, advice and assistance with the Board's capital works program
- The Department for Education and Child Development for providing a seconded Education Manager to coordinate the schools outreach program
- TAFE SA for partnering with the Botanic Gardens on the ground breaking Australian Centre of Horticultural Excellence

### Adelaide Botanic Gardens Foundation

The Adelaide Botanic Gardens Foundation exists to generate income for the Board of the Botanic Gardens and State Herbarium by building corporate and private philanthropic support. The Foundation raises and administers community funds through its Endowment Fund for current Gardens' projects and for the long-term financial security of the Gardens. The Foundation is the trustee of the not-for-profit Adelaide Botanic Gardens Fund, which has tax-deductible gift recipient status.

In 2013-14, the Board identified three priority fundraising projects for the Foundation, the Kitchen Garden, the South Australian Seed Conservation Centre and the Endowment Fund.

The integration of Foundation fundraising activities and Botanic Gardens sponsorship, events and communications functions is essential to creating alignment for the future success of a financial plan. The digital communications strategy was launched and saw the implementation of an e-newsletter to more than 2500 new subscribers. The Gardens looks forward to taking a more holistic approach to communications and philanthropy extending its reach to a wider community.

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### The Kitchen Garden

The Botanic Gardens of South Australia has been delivering community-focussed programs around edible gardening since 2009. The Gardens are now finalising plans to build a kitchen garden space at Adelaide Botanic Garden that will serve as a hub of activity connecting people to plants and food.



The aim is to inspire and support people to grow food at home, in schools and in their communities.

The space will primarily be used by young people from schools and early years learning centres. The Kitchen Garden will enable delivery of education and outreach programs within Adelaide Botanic Garden and will support learning activity for schools and communities across South Australia.

The Department of Education and Childhood Development has provided funding to support the development of the Kitchen Garden, a Program Coordinator and a horticulturalist to develop and manage the program

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### South Australian Seed Conservation Centre

The Botanic Gardens of South Australia partner with the Millennium Seed Bank Project, an international conservation effort involving more than 100 groups throughout 50 countries. The project is coordinated by Royal Botanic Gardens Kew Millennium Seed Bank, located in the south east of England. The aim of this project was to conserve 10% of the world's flora by the end of 2010, by collecting and storing seeds. The Botanic Gardens achieved this target two years ahead of schedule.

To date, the South Australian Seed Conservation Centre has:

- Collected and stored seeds from more than 1500 of South Australia's native plant species, more than 40% of the State's flora. Fundraising efforts are continuing to safeguard South Australia's 3500 native plants, of which 800 are at risk of becoming extinct
- Collected and stored 64% or 504 of South Australia's native plants which are at risk of becoming extinct. With further financial support and a commitment to fundraising efforts the goal is to bank 90% of these species by 2018

The fundraising goal for this program is \$250 000 per annum.

In 2013-14, philanthropists Antony and Mary Lou Simpson in memory of their Aunty Audrey Abbie and Bob Kennedy provided significant support for this important conservation and scientific program.

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### Endowment Fund

Contributions to the endowment fund, including bequests and legacies, are crucial for the long term sustainability of the Gardens. Capital is held by the Foundation and interest is then distributed annually towards Gardens' projects. The Endowment Fund will enable the Foundation to assist in protecting the Gardens' rich botanical and built heritage while furthering vital conservation, horticultural, scientific and education programs.

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### Mount Lofty Botanic Garden Visitor Pavilion

This innovative project has been proposed by the Mount Lofty Botanic Garden Support Group and developed in close collaboration with the Adelaide Botanic Gardens Foundation, the Board of the Botanic Gardens and State Herbarium, and Friends of the Botanic Gardens of Adelaide.

The Board of the Botanic Gardens and State Herbarium, through the Foundation, pledged \$25 000 toward the proposed visitor pavilion at Mount Lofty Botanic Garden.

The Foundation is working together with the Mount Lofty Botanic Garden Support Group to seek the support of the broader community to ensure this beloved Hills garden continues to educate and enrich the lives of generations to come.



A collection of seeds from the South Australian Seed Conservation Centre

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## The Great Escape

The Board, in association with the Foundation, held a special family day event suitable for children aged between five and 12. The Great Escape was held on the morning of Sunday, 23 February with over 100 children participating in workshops and activities linked to fundraising programs. Activities included:

- Sacred Seed Bombs where children analysed seeds under a microscope, mixed them with mud and threw them into First Creek Wetland, assisting with vegetation
- Wicking Gardens where children prepared and planted their own portable self-watering kitchen garden
- Santos Museum of Economic Botany Papyrus Paper Workshop where children learnt about the importance of natural resources such as wood and paper

Supporters, most of whom were parents and grandparents, enjoyed the day out and remained in Adelaide Botanic Garden to enjoy the Tomato Festival.

## Foundation Committee

Mr David Knox (Chair)  
Ms Jan Angas (Deputy Chair)  
Mr Tom Verco (Treasurer)  
Mr Stephen Couche  
Mr Bodo Jensen (President, Friends of the Botanic Gardens of Adelaide)  
Ms Julie Mitchell  
Mr Ian Stirling

### *Ex Officio*

Mr Stephen Forbes, Director of Botanic Gardens and State Herbarium

## Ambassadors

The Foundation thanks the many people that support the Gardens, including the Ambassadors who share their energy and passion to connect people with plants.

Michael Keelan  
Maggie Beer  
Michael Wheldon  
Daniel Lutz  
Simon Bryant



Images from the Great Escape at Adelaide Botanic Garden in February 2014

## Donors and supporters

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### Endowment Fund

The Bensimon Family  
Mr Matthew Holland  
Mr David Knox  
E Lander  
Ms Margaret Llewellyn  
Mr Antony & Mrs Mary Lou Simpson  
Pauline Thiem

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### Kitchen Garden Program

Mr M & Mrs R Adams  
Ms Julie Almond  
Mr Sandy Anderson  
Ms Marjorie Andrew  
Mr Alistair & Mrs Janet Angas  
Mr Jonathon & Mrs Judith Bateman  
Ms Jo Boulderstone  
Ms Sue Bayly  
Mr Walter Beale  
Ms Heather Beckmann  
Ms Patsy Bennett  
Balaklava Garden Club -  
Ms Adele Bolitho  
Mr Alan & Mrs Helen Bradshaw  
Trevabyn - Miss Catherine Brown  
Brigid Bruer  
Ms Aileen Buesing  
Dr Robyn Campbell  
Ms J Carlin  
Mr Jack Clough  
Mr Roger & Mrs Brenda Coleman  
Mr John Connell  
Ms Jill & Mr Dennis Cooke  
Ms Jill Cooper  
Mr Stephen & Mrs Stephanie  
Couche  
Mrs Christobel Crabb  
Mrs Pamela Crosland  
Mr L Darling  
Mrs Julie & Mr John Davidson  
Dr C G Deland  
Mrs Sully & Mr Rodney Detmold  
Mr Robert Dickenson  
Sisters Of Mercy - Sister M Duigan  
Mr Walter Duncan  
Mrs M Evans  
Mrs Wendy Eyre  
Ms Helen Fairweather  
Mrs Nancy Fletcher  
Ms Helen Forbes  
Pamela Foulkes  
Mr Kevin Francis  
Ms Dianne Franklin  
Mrs Peggy Friedrichs

Mrs Jocelyn Fuller  
Mr Mark Gellard  
Mrs Joan Glastonbury  
Mrs Ann Gordon  
Mr Peter Gorgula  
Ms Margaret Gregory  
Mr Geoffrey Hackett-Jones  
Mrs E W Hale  
Mr Franklin & Mrs Jo Hall  
Mrs Judith Hall  
Ms Roz Hamilton  
Mr Harry Harding  
Dr Barbara Hardy AO  
Ms Victoria Harrison  
Mr Richard & Mrs Margaret  
Heathcote  
Ms G J Heitmann  
Ms Susie Herzberg  
Dr Marcia Hewitt  
Mr Robert Hill Smith  
Dr Andrew Holsman  
Penelope Horn  
Ms Anne Howe AM  
Mrs Bindi Irwin  
Mr Charles Irwin  
Mrs Judith Jemison  
Mr Richard Johnson  
Mr Gregory Keane  
Mr Bob & Mrs Cathy Kennedy  
Mr C & Mrs Andrea King  
Ms Margaret King  
Miss Alison Kinsman AM  
Ms Meg Ladd  
Ms Wendy Laffer  
C A Lake  
Mrs Jean Lang  
Dr John Lehmann  
Hon Anne Levy AO  
Mrs Beth Lewis  
Dr Fong Seong Liew  
Ms Shirley Lindner  
Mr Dean & Mrs Lines  
Ms Helen Lithgow  
Mrs Jasmine Lovell  
Ms Kadar & Mr Anton Lucas  
Mrs Joan Lyons  
Mr Callum MacLachlan  
Mr Hugh & Mrs Fiona MacLachlan  
OAM  
Mrs Ann Marsden  
Ms Beverley Martin  
Mrs Helen McBryde  
Willunga Garden Club -  
Ms Christine McComas  
Mrs Skye McGregor  
Mr R W Menz  
Dr Patricia & Mr Ed Michell  
Mrs Sheila Miller  
Mr David & Mrs Karen Mitchell  
Dr Roger Monk  
Dr Peter Noblett AM  
Ms Nancy Offler  
Mr Peter & Mrs Gina Osborne

Mr Ray & Mrs Nancy Paul  
Mrs Helen Pearce  
Mrs Patricia Pearson  
Mrs Anne Pickhaver  
Marianne Piercy  
Mr K Pitman  
Ms Christine Pressley  
Mr Chris Prider  
Mr Ian Ramsay  
Ray Reynolds  
Mrs Enid Robertson  
Mr Michael Robinson  
Dr Jennifer Rocca  
Mrs Barb Rogers  
Mr Richard Rowland  
Mrs T Shannon  
Morgan Simpson Wines -  
Mr Richard Simpson  
Mrs Manorma Somers  
Mrs Heather Southcott  
Ms Anne Specht  
Mrs Margaret Stephenson  
Ms Denise Stephenson  
Mr R Stoeckel  
Taplin - Mr Noel Taplin  
Pauline Thiem  
Tolley's Nurseries -  
Mr Ian Tolley OAM  
Mrs Kim Tolotta  
Dr Barbara Wall  
Mr Ian & Mrs Pamela Wall OAM  
Mrs Eileen Ware  
Ms Jennifer Wightman  
Ms Claire Withers  
Mrs Cecily Wollaston  
Mr Geoffrey Worth  
Mr Rob Wright  
Mrs Pamela Yule  
Mrs Grace & Mr Callum Zadow

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### South Australian Seed Conservation Centre

Gawler Garden Club  
Mr Chris & Mrs Liz Addams-Williams  
Ms Marjorie Andrew  
Mrs Heather Armour  
Mr U & Mrs R Asenstorfer  
Mr Graham Bald  
Mrs Mary Bampton  
Ms Heather Beckmann  
Balaklava Garden Club -  
Ms Adele Bolitho  
Pamela Brinsley  
Mr Geoffrey Britton  
Mrs Jennie Brooks  
Ms Jane Brooks  
Ms Marjorie Brown  
Ms Julie Brownell  
Mr John & Mrs Helen Burgess  
Bromeliad Society of SA -

Mr Derek Butcher  
Stroma Buttrose  
Ms Sue Cain  
Mr Greg Campbell  
Ms Shirley Clissold  
Ms Catherine Courtney  
Mrs Anna Cox OAM  
Mrs Pamela Crosland  
TCL - Ms Kate Cullity  
Mr David Davidson  
Dr Christopher Dibden  
Dr Bill Edwards  
Diggers Club - Mr Keith Edwards  
Ms Dorothy Farmer  
Mrs Nancy Fletcher  
Mr Kevin Francis  
Kadina Cottage Garden Club -  
Ann Fry  
Ms Daphne Goldsworthy  
Mrs Olga Gostin  
Ms Kaye Green  
Mr Geoffrey Hackett-Jones  
Ms Roz Hamilton  
Mrs Jean Hancox  
Dr Barbara Hardy AO  
Mrs Mary Heath  
Port Augusta Garden Club - Ms  
Marilyn Herbert  
Mr Sam & Mrs Margo Hill Smith  
Andrew Holsman Consulting - Dr  
Andrew Holsman  
Mr Richard Johnson  
Miss Alison Kinsman AM  
Ms Meg Ladd  
C A Lake  
Mrs Mary Lane  
Mrs Margaret Lee  
Hon Anne Levy AO  
Dr Fong Seong Liew  
Ms Maggie Lindsay-Oliver  
Mrs Joan Lyons  
Mrs Margaret Mackintosh  
Mr Les Maidment  
Mr Kenneth Manning  
Ms Mary Marston  
Ms Sue Martens  
Dahlia Society of SA - Ms Joan  
Matulick  
Mrs Helen McBryde  
Willunga Garden Club -  
Ms Christine McComas  
Mr Laurence McEvoy  
Ms Alison McPharlin  
Mr Steve Meredith  
Dr Patricia & Mr Ed Michell  
Mrs Sheila Miller  
Mr Robert Mountford  
d'Arenberg Wines - Mr d'Arry  
Osborn OAM  
Mr Peter & Mrs Gina Osborne  
Mrs Patricia Pearson  
Mrs Anne Pickhaver  
Miss Elizabeth Pitcher

Mr K Pitman  
Mr T Powell  
Mrs Jean Price  
Mr Chris Prider  
Mrs Chris Ratcliffe  
Ms Isabella Rawnsley  
Mrs Jean Reid  
Mrs Una Reuther  
Mr Anthony Rix  
Mrs Enid Robertson  
Ms Helen Sanders  
Mrs Meredyth & Mr Don Sarah AM  
Mr Antony & Mrs Mary Lou Simpson  
A Somerville  
Mrs Heather Southcott  
Herb Society of SA -  
Ms Sandra Stewart  
Mr Trevor Stratton  
Pauline Thiem  
Mrs Margaret Thomas  
Tolley's Nurseries -  
Mr Ian Tolley OAM  
Mrs Kim Tolotta  
Mrs Geraldine Treloar  
Mary Trembath  
Ms Joan Vandewerdt  
Ms Cathy Veide  
Mr Geoff & Ms Judy Walshe  
Miss Evelyn Ward  
Mr David Watts  
Mr S J White  
Ms Jennifer Wightman  
Mrs Mary Wilson  
Salisbury Garden Club -  
Ms Lynn Wilson  
Dr Angus Wood  
Dr Pat Wyllie

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### **Mount Lofty Botanic Garden Visitor Pavilion**

Mrs Barbara Bansemer  
Ms Tiffany Barlow  
Ms Barbara Davies  
Mr Peter & Mrs Carol Dungey  
Miss Cynthia Fleming  
Mrs Liz Gobolos  
Ms Jenny Herrmann  
Ms Susie Herzberg  
Dr Fong Seong Liew  
Mr Lescil Maidment  
Ms Fay McDermott  
Mrs Wanda McDougall  
Ms Jennifer O'Donohue

## Committed to safety

The Board of the Botanic Gardens and State Herbarium is committed to ensuring the safety of Gardens and Herbarium staff, volunteers and visitors. The Board abides by DEWNR workplace health and safety procedures and reporting on this matter is contained in the DEWNR 2013-14 Annual Report.

The Botanic Gardens and State Herbarium raised awareness of Workplace Healthy and Safety across Adelaide, Mount Lofty and Wittunga Botanic Gardens with great success. There have been no Lost Time Injuries (LTI) relating to heat stress, fire or severe weather since the implementation of these policies in December 2010.

Staff have subsequently set a record for zero LTIs. The last recorded LTI was on 27 March 2011, substantially exceeding the previous record of 677 days between LTIs. An application has been submitted to the SafeworkSA Safety Awards for the following categories:

- Best Solution to an Identified Workplace Health and Safety Issue
- Issue: The Health and Safety of Workers and Visitors at Risk at Times of Extreme Weather

## Number of days since LTI as of 19 May 2014

Site	Days	Date if last incident
Adelaide Botanic Garden	1150	27 March 2011
Mount Lofty Botanic Garden	1645	17 November 2009
Wittunga Botanic Garden	3862	22 October 2003
Plant Biodiversity Centre	330	31 January 2006

## Land acquired for Mount Lofty Botanic Garden

A block of land adjacent to Mount Lofty Botanic Garden has been acquired by the Botanic Gardens of South Australia. The Gardens seized the opportunity to purchase the land, securing it from development.

The location of the property is central to the main vista of the garden and its acquisition will safeguard Mount Lofty Botanic Garden's beauty for future generations.

The land was recognised as a future development site in the Botanic Gardens of South Australia's 2006 Mount Lofty Botanic Garden Master Plan Report.

In the interim the land will be maintained by Botanic Gardens staff on a cost neutral basis.

An existing lease arrangement for a natural spring on the property ensures maintenance requirements can be met without budget implications.

A prescribed burn program for the Mount Lofty Garden has been planned for the next six years (to Spring 2021) in partnership with Natural Resources Adelaide and Mount Lofty.

In line with standard procedure these burns will be subject to an Environmental Assessment Process to determine their environmental impact. Approval for each burn is dependent on the assessed impact and mitigating actions.

## Professional development

The Botanic Gardens and State Herbarium take great pride in ensuring staff and volunteers are world class in their knowledge, understanding and delivery of information, programs and services. The organisation ensures staff and volunteers receive the appropriate professional and personal development required to undertake their duties.

Activity in 2013-14 included:

- Think One Team training aimed at instilling practices and tools to achieve success in individual, team and organisational productivity and performance
- Ongoing training for Botanic Gardens horticultural staff to facilitate the Australian Centre of Horticultural Excellence program
- Ongoing Collections Database training for staff
- Quarterly staff forums with specialist presentations targeted at specific areas of the business. Topics included:
  - Seed collection
  - Digital strategy (social media and website)
  - Media strategy
  - Brand positioning
- Presentations and attendances at various state, national and international conferences.



## The Australian Centre of Horticultural Excellence

The Australian Centre of Horticultural Excellence is a strategic initiative of the Botanic Gardens of South Australia in partnership with TAFE SA. The Centre's purpose is to contribute to the development of a skilled workforce for the horticultural practice and management sectors.

This training provides hands-on, practical and work-ready experiences for students. The Gardens' unique and internationally recognised plant collections and experienced staff, coupled with TAFE SA's accreditation as a Registered Training Organisation, has provided a strong foundation for the Centre as world-class leaders in the horticultural training industry.

Success of the initiative has led to further development and extension of accredited courses in 2014, with 40 students graduating Certificate II and Certificate III courses at the end of the 2014 academic year.

The Centre also commenced a Master Class program for the general public in September 2013. Master Classes are specialist courses run by Botanic Gardens staff and industry experts on relevant and current horticulture topics. They provide an opportunity for attendees to network with like-minded gardeners, extend their horticultural expertise and stay up-to-date with the latest techniques.

Topics covered in the 2013-14 series included introduction to propagation, pruning for fruit, composting, gardening in fire prone locations, establishing kitchen gardens and gardening in a Mediterranean climate.

Six classes were held in the 2013-14 financial year with 96 participants attending the highly specialised classes. By the end of the 2014 calendar year, 12 master classes will have been conducted with more than 200 participants attending.



## Commercial operations

Commercial activity in 2013-14 included:

- Upgrade and improvement of facilities in-line with the Gardens' Capital Development Plan and Maintenance Program, ensuring the Gardens continue to provide world-class visitor facilities
- An upgrade of the kitchen facilities in the Botanic Gardens Restaurant and Simpson Kiosk
- Potting benches in the Mount Lofty Botanic Garden Nursery replaced with ergonomically designed facilities
- A review of car parking facilities was undertaken to increase Visitor safety and access. This resulted in the development of a new parking permit system, streamlined operations and increased visitor accessibility
- A Revenue Review was conducted to identify potential improvements and new revenue streams. Recommendations will be made in 2014-15



Certificate II Horticultural students in Adelaide Botanic Garden (above) and Mount Lofty Botanic Garden (below)

# Role, Legislation and Structure

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The Board is established under the *Botanic Gardens and State Herbarium Act 1978*, and is subject to the general direction and control of the Minister for Sustainability, Environment and Conservation.

Under Section 23 of the Act, the Board is required to present a report to the Minister before 30 September each year on its operations during the past financial year.

## Object of the *Botanic Gardens and State Herbarium Act 1978*

The object of the Act is to provide for the establishment and management of public botanic gardens and herbaria; and for other purposes.

## Role of the Board of the Botanic Gardens and State Herbarium

The Board is responsible for administering the Act and has responsibility for:

- Three garden sites:
  - Adelaide Botanic Garden and Botanic Park
  - Mount Lofty Botanic Garden
  - Wittunga Botanic Garden
- The State Herbarium

## Functions of the Board of the Botanic Gardens and State Herbarium

The functions of the Board are as follows:

- a) to establish and maintain botanic and other gardens for the use and enjoyment of members of the public on land vested in or placed under the control of the Board; and
- b) to establish and manage in, or in connection with, its gardens exhibitions of interest in the fields of botany, horticulture, biology, conservation of the natural environment or history; and
- c) to establish and maintain a herbarium and, subject to this Act, to retain original specimens included in the herbarium; and

- d) to accumulate and care for specimens (whether living or preserved), objects and things of interest in the fields of botany, horticulture, biology, conservation of the natural environment or history; and
- e) to accumulate and classify data in regard to any such matters; and
- f) to manage all lands and premises vested in, or placed under the control of, the Board; and
- g) to manage all funds vested in, or under the control of, the Board and to apply those funds in accordance with the terms and conditions of any instrument of trust or other instrument affecting the disposition of those funds; and
- h) to carry out, or promote, research into matters of interest in the fields of botany, horticulture, biology, conservation of the natural environment or history; and
- i) to disseminate information of interest in the fields of botany, horticulture, biology, conservation of the natural environment or history; and
- j) to undertake the commercial exploitation of knowledge acquired by the Board in the course of conducting research; and
- k) to sell or propagate and sell (whether alone or in partnership or joint venture with a nursery business) hybrids or cultivated varieties of plants that—
  - (i) have occurred spontaneously in the Board's gardens or been developed in the course of its research activities; and
  - (ii) are not widely commercially available in the State; and
- l) to provide consultant services; and
- m) to perform any other functions of scientific, educational or historical significance that may be assigned to the Board by regulation.

The six principles that follow embody the broad concepts that lay the foundation for the Board's management and oversight of the operations of the Botanic Gardens and State Herbarium.

- Respect horticultural and botanical knowledge and skills, and seek to ensure that staff and community knowledge contribute to high-level horticultural and botanical endeavour applied to the plant collections

- Respect garden and landscape design knowledge and skills, and seek to ensure that sound design advice contributes to a high standard of landscape aesthetics within the Gardens
- Support programs with careful planning, sound marketing and appropriate evaluation; promote public awareness and understanding of the Board's role; and communicate with and be responsive to visitors and stakeholders
- Contribute to biodiversity conservation and scientific research through education and integrated plant conservation programs
- Ensure that the Board's operations model effective environmental management to the community
- Ensure that the Board can demonstrate improving effectiveness and efficiency in resource use

## Membership

The Board consists of eight members, appointed by the Governor pursuant to Section 7 of the Act. As of 30 June 2014 Board membership was as follows:

### Presiding member

Judith Potter

### Members

Rob Di Monte  
Christine Elstob  
Anne Howe AM  
Helena Jenkinson  
David Knox  
Anne Levy AO  
Ian Stirling

## Meetings: General and Special

A total of eight Board meetings were held during the 2013-14 financial year. One special Board meeting was held during the 2013-14 financial year.

Attendance by appointed members at meetings:

Member	Attendance
Judith Potter	8
Rob Di Monte	7
Christine Elstob	7
Anne Howe AM	7
David Knox	6
Helena Jenkinson	8
Anne Levy AO	7
Ian Stirling	7

The Board's Finance and Risk Management Committee chaired by Rob Di Monte met three times during the 2013/2014 financial year.

## Governance Arrangements

DEWNR provides support to the Board of the Botanic Gardens and State Herbarium by providing an Executive Officer and Secretary for administration and governance. Reporting on this matter is contained in the DEWNR Annual Report 2013-14.

## Management of Human Resources

### Board Member Fees

Members of the Board of the Botanic Gardens and State Herbarium (other than government employees) received the following remuneration as determined by the Governor of South Australia:

- Chair: \$18 572
- Member: \$12 383

### Employee Numbers, Gender and Status

The Board of the Botanic Gardens and State Herbarium has no staff of its own and utilises the services of the Department of Environment, Water and Natural Resources (DEWNR). Reporting on this matter is contained in the DEWNR Annual Report 2013-14.

Executive, administrative and project support were provided to the Board of the Botanic Gardens and State Herbarium from existing DEWNR resources.

The gender balance of the Board of the Botanic Gardens and State Herbarium is taken into consideration when members are appointed. During this reporting period, membership of the Board was made up of three males and five females.

The following matters are contained in the DEWNR Annual Report 2013-14:

- Superannuation contribution by the Board of the Botanic Gardens and State Herbarium
- Executives
- Leave Management
- Workforce Diversity
- Voluntary Flexible Working Arrangements
- Performance Development
- Leadership and Management Development
- Accredited Training Packages
- Employment Opportunity Programs
- Work Health and Safety and Injury Management
- Financial Performance
- Account Payment Performance
- Carers Recognition Act 1993
- Disability Access and Inclusion Plans
- Energy Efficiency Action Plan Report
- Greening of Government Operations Framework

## Contractual Arrangements

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The Board of the Botanic Gardens and State Herbarium did not enter into any contractual arrangements exceeding \$4 million during this reporting period.

## Fraud

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It is declared that there were no instances of fraud detected in the activities undertaken by the Board of the Botanic Gardens and State Herbarium in this reporting period. Financial services are provided to the Board of the Botanic Gardens and State Herbarium by DEWNR. Strategies to detect instances of fraud are reported in the DEWNR Annual Report 2013-14.

## Consultants

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The Board of the Botanic Gardens and State Herbarium did not engage any consultants in this reporting period.

## Overseas Travel

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It is declared that no member of the Board of the Botanic Gardens and State Herbarium has travelled overseas on Board business during this reporting period.

## Asbestos Management in Government Buildings

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Asbestos risk is managed through registers maintained on site as per Government procedures.

## Urban Design Charter

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No events occurred in 2013-14 that required the Board of the Botanic Gardens and State Herbarium to consider the principles of urban design contained in the South Australian Urban Design Charter.

## Freedom of Information Statements

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As a DEWNR administered entity, the Board of the Botanic Gardens and State Herbarium participates and abides by the arrangements outlined in the DEWNR Freedom of Information regime. Reporting on this matter is available on the DEWNR internet site. Please visit [environment.sa.gov.au](http://environment.sa.gov.au) to view the FOI statement.

## Whistleblowers Protection Act 1993

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Reporting requirements against the Whistleblowers Protection Act 1993 require the Board of the Botanic Gardens and State Herbarium to report on the number of occasions on which public interest information has been disclosed to a Responsible Officer of the agency. There were no disclosures made during the 2013-14 financial year.

## Regional Impact Assessment Statements

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The Board of the Botanic Gardens and State Herbarium did not undertake any regional Impact Assessment Statements during the 2013-14 financial year.

## Reconciliation Statement

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The Board of the Botanic Gardens and State Herbarium recognise South Australia's Aboriginal people as the traditional custodians of the State's lands, water, plants and animals, commonly known as country.

The Board observes that country is central to the social, cultural and spiritual lives of Aboriginal people.

The Board acknowledges the damage done to Aboriginal people and society, individually and collectively, through colonisation, settlement and displacement.

The Board of the Botanic Gardens and State Herbarium will endeavour to repair the damage, and where that is not possible, to reconcile the past. We will build respectful and honest relationships through our work and develop a better awareness of Aboriginal history, knowledge and culture. We will ask and listen, before we act.

And every day, we will work with Aboriginal people to conserve and manage our environment and natural resources.

## Acknowledgements

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No member of the Board of the Botanic Gardens and State Herbarium has either a direct or indirect pecuniary interest in any firm, trust or company with which the Board has entered into arrangements during the 2013-14 financial year.<sup>1</sup>

## Financial Report

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### Financial Performance

The Board is a body corporate under Section 6 of the Act and is required to cause proper accounts to be kept of its financial affairs. The Auditor General may at any time, and at least once in each year, audit the accounts of the Board.

The Board must, on or before 30 September in each year, present a report to the Minister on the operations of the Board during the preceding financial year. This report must include the audited statement of accounts of the Board for the financial year to which the report relates.

### Account Payment Performance

DEWNR provides administrative resources for processing account payments. The Board's reporting on this matter is contained in the DEWNR Annual Report 2013-14.

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<sup>1</sup> During the 2013-14 financial year, the Adelaide Botanic Gardens Foundation received sponsorship support from Santos and ElectraNet.



# **Annual Financial Statements for the year ended 30 June 2014**

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Board of the Botanic Gardens and State Herbarium

**For Official Use Only**



**Government of South Australia**  
**Auditor-General's Department**

*Our ref: A14/026*

7 October 2014

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www.audit.sa.gov.au

Ms J Potter  
Chair  
Board of the Botanic Gardens and State Herbarium  
North Terrace  
ADELAIDE SA 5000

Dear Ms Potter

**Audit of the Board of the Botanic Gardens and State Herbarium  
for the year ended 30 June 2014**

The audit of the accounts of the Board of the Botanic Gardens and State Herbarium (the Board) for the year ended 30 June 2014 has been completed.

The audit covered the principal areas of the financial operations of the Board and included the test review of systems and processes and internal controls and financial transactions.

The audit coverage and its conduct is directed to meeting statutory audit responsibilities under the *Public Finance and Audit Act 1987* and also the requirements of Australian Auditing Standards.

Returned herewith are the financial statements of the Board together with the IAR, which is unmodified.

Finally, I would like to express my appreciation to the management and staff of the Board in providing assistance during the year to my officers in the conduct of the annual audit.

Yours sincerely

A handwritten signature in black ink, appearing to read 'S O'Neill', with a horizontal line underneath.

S O'Neill  
**Auditor-General**



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200 Victoria Square  
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**To the Chairperson of the Board  
Board of the Botanic Gardens and State Herbarium**

As required by section 31(1)(b) of the *Public Finance and Audit Act 1987* section 22(2) of the *Botanic Gardens and State Herbarium Act 1978*, I have audited the accompanying financial report of the Board of the Botanic Gardens and State Herbarium for the financial year ended 30 June 2014. The financial report comprises:

- a Statement of Comprehensive Income for the year ended 30 June 2014
- a Statement of Financial Position as at 30 June 2014
- a Statement of Changes in Equity for the year ended 30 June 2014
- a Statement of Cash Flows for the year ended 30 June 2014
- notes, comprising a summary of significant accounting policies and other explanatory information
- a Certificate from the Chair, Board of the Botanic Gardens and State Herbarium and the Executive Director and the Chief Financial Officer of the Department of Environment, Water and Natural Resources.

**The Board's Responsibility for the Financial Report**

The Board is responsible for the preparation of the financial report that gives a true and fair view in accordance with the Treasurer's Instructions promulgated under the provisions of the *Public Finance and Audit Act 1987* and Australian Accounting Standards, and for such internal control as the Board determines is necessary to enable the preparation of the financial report that is free from material misstatement, whether due to fraud or error.

**Auditor's Responsibility**

My responsibility is to express an opinion on the financial report based on the audit. The audit was conducted in accordance with the requirements of the *Public Finance and Audit Act 1987* and Australian Auditing Standards. The auditing standards require that the auditor comply with relevant ethical requirements and that the auditor plan and perform the audit to obtain reasonable assurance about whether the financial report is free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial report. The procedures selected depend on the auditor's judgement, including the assessment of the risks of material misstatement of the financial report, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation of the financial report that gives a true and fair view in order to design audit procedures that are appropriate in the circumstances. An audit also includes evaluating the appropriateness of the accounting policies used and the reasonableness of accounting estimates made by the Board, as well as the overall presentation of the financial report.

I believe that the audit evidence I have obtained is sufficient and appropriate to provide a basis for my audit opinion.

**Opinion**

In my opinion, the financial report gives a true and fair view of the financial position of the Board of the Botanic Gardens and State Herbarium as at 30 June 2014, its financial performance and its cash flows for the year then ended in accordance with the Treasurer's Instructions promulgated under the provisions of the *Public Finance and Audit Act 1987* and Australian Accounting Standards.



**S O'Neill**  
**AUDITOR-GENERAL**  
7 October 2014

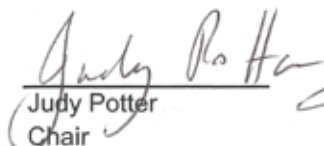
## Board of the Botanic Gardens and State Herbarium

### Certification of the Financial Statements

We certify that the attached general purpose financial statements for the Board of the Botanic Gardens and State Herbarium:

- comply with any relevant Treasurer's Instructions issued under section 41 of the *Public Finance and Audit Act 1987*, and any relevant Australian Accounting Standards;
- are in accordance with the accounts and records of the Board; and
- present a true and fair view of the financial position of the Board of the Botanic Gardens and State Herbarium as at 30 June 2014 and the results of its operations and cash flows for the financial year.

We certify that the internal controls employed by the Board of the Botanic Gardens and State Herbarium for the financial year over its financial reporting and its preparation of the general purpose financial statements have been effective throughout the reporting period.



Judy Potter  
Chair  
Board of the Botanic  
Gardens and State  
Herbarium  
2 October 2014



Stephen Forbes  
Executive Director  
Department of Environment,  
Water and Natural Resources  
1<sup>st</sup> October 2014



Michelle Griffiths  
Chief Financial Officer  
Department of Environment,  
Water and Natural Resources  
2 October 2014



**Board of the Botanic Gardens and State Herbarium**

**Statement of Comprehensive Income**

**For the year ended 30 June 2014**

	Note	2014	2013
		\$'000	\$'000
<b>Expenses</b>			
Board member expenses	5	119	121
Supplies and services	6	664	547
Depreciation expense	7	1,851	1,887
Grants and subsidies	8	786	1,175
Net loss from the disposal of non-current assets	9	40	3
Other expenses	10	52	76
<b>Total expenses</b>		<b>3,512</b>	<b>3,809</b>
<b>Income</b>			
Revenues from fees and charges	11	1,173	1,100
Grant revenues	12	119	170
Interest revenues	13	92	102
Resources received free of charge	14	20	727
Other income	15	24	951
<b>Total income</b>		<b>1,428</b>	<b>3,050</b>
<b>Net cost of providing services</b>		<b>2,084</b>	<b>759</b>
<b>Net result</b>		<b>(2,084)</b>	<b>(759)</b>
<b>Total comprehensive result</b>		<b>(2,084)</b>	<b>(759)</b>

The net result and total comprehensive result are attributable to the SA Government as owner

*The above statement should be read in conjunction with the accompanying notes*

**Board of the Botanic Gardens and State Herbarium**  
**Statement of Financial Position**  
**As at 30 June 2014**

	Note	2014 \$'000	2013 \$'000
<b>Current assets</b>			
Cash and cash equivalents	16	2,906	3,534
Receivables	17	39	87
Inventories	18	73	92
<b>Total current assets</b>		<b>3,018</b>	<b>3,713</b>
<b>Non-current assets</b>			
Property, plant and equipment	19	40,486	41,613
<b>Total non-current assets</b>		<b>40,486</b>	<b>41,613</b>
<b>Total assets</b>		<b>43,504</b>	<b>45,326</b>
<b>Current liabilities</b>			
Payables	21	344	82
<b>Total current liabilities</b>		<b>344</b>	<b>82</b>
<b>Total liabilities</b>		<b>344</b>	<b>82</b>
<b>Net assets</b>		<b>43,160</b>	<b>45,244</b>
<b>Equity</b>			
Asset revaluation surplus		9,300	9,300
Retained earnings		33,860	35,944
<b>Total equity</b>		<b>43,160</b>	<b>45,244</b>
The total equity is attributable to the SA Government as owner			
Unrecognised contractual commitments	24		
Contingent assets and liabilities	25		

*The above statement should be read in conjunction with the accompanying notes*

**Board of the Botanic Gardens and State Herbarium**

**Statement of Changes in Equity**

**For the year ended 30 June 2014**

	<b>Asset Revaluation Surplus</b>	<b>Retained Earnings</b>	<b>Total</b>
<b>Note</b>	<b>\$'000</b>	<b>\$'000</b>	<b>\$'000</b>
<b>Balance at 30 June 2012</b>	<b>9,300</b>	<b>36,416</b>	<b>45,716</b>
Error correction - property, plant and equipment	-	287	287
<b>Restated balance at 30 June 2012</b>	<b>9,300</b>	<b>36,703</b>	<b>46,003</b>
Net result for 2012-13	-	(759)	(759)
<b>Total comprehensive result for 2012-13</b>	<b>-</b>	<b>(759)</b>	<b>(759)</b>
<b>Balance at 30 June 2013</b>	<b>9,300</b>	<b>35,944</b>	<b>45,244</b>
Net result for 2013-14	-	(2,084)	(2,084)
<b>Total comprehensive result for 2013-14</b>	<b>-</b>	<b>(2,084)</b>	<b>(2,084)</b>
<b>Balance at 30 June 2014</b>	<b>9,300</b>	<b>33,860</b>	<b>43,160</b>

All changes in equity are attributable to the SA Government as owner

*The above statement should be read in conjunction with the accompanying notes*

*Handwritten mark*

**Board of the Botanic Gardens and State Herbarium**

**Statement of Cash Flows**

**For the year ended 30 June 2014**

	Note	2014 \$'000	2013 \$'000
<b>Cash flows from operating activities</b>			
<b>Cash outflows</b>			
Board member payments		(119)	(121)
Payments for supplies and services		(402)	(499)
Payments of grants and subsidies		(786)	(1,175)
Other payments		(33)	(32)
<b>Cash used in operations</b>		<b>(1,340)</b>	<b>(1,827)</b>
<b>Cash inflows</b>			
Fees and charges		1,220	1,065
Receipts from grants		119	170
Interest received		93	106
Other receipts		24	952
<b>Cash generated from operations</b>		<b>1,456</b>	<b>2,293</b>
<b>Net cash provided by operating activities</b>	22	<b>116</b>	<b>466</b>
<b>Cash flows from investing activities</b>			
<b>Cash Outflows</b>			
Purchase of property, plant and equipment		(750)	-
<b>Cash used in investing activities</b>		<b>(750)</b>	<b>-</b>
<b>Cash Inflows</b>			
Proceeds from sale of property, plant and equipment		6	-
<b>Cash generated from investing activities</b>		<b>6</b>	<b>-</b>
<b>Net cash used in investing activities</b>		<b>(744)</b>	<b>-</b>
<b>Net (decrease)/increase in cash and cash equivalents</b>		<b>(628)</b>	<b>466</b>
Cash and cash equivalents at the beginning of the period		3,534	3,068
<b>Cash and cash equivalents at the end of the period</b>	16	<b>2,906</b>	<b>3,534</b>

*The above statement should be read in conjunction with the accompanying notes*

**Board of the Botanic Gardens and State Herbarium**  
**Notes to and forming part of the Financial Statements**  
**For the year ended 30 June 2014**

**1 Objectives of the Board**

**(a) Strategic Context**

The Board of the Botanic Gardens & State Herbarium (the Board) was established under section 6 of the *Botanic Gardens and State Herbarium Act 1978* (the Act).

The objectives of the Board are to ensure the maintenance and development of the South Australian Botanic Gardens and State Herbarium by:

- (a) establishing and maintaining botanic and other gardens for the use and enjoyment of members of the public on land vested in or placed under the control of the Board
- (b) establishing and managing in, or in connection with, its gardens exhibitions of interest in the fields of botany, horticulture, biology, conservation of the natural environment or history
- (c) establishing and maintaining a herbarium and, subject to this Act, retaining original specimens included in the herbarium
- (d) accumulating and caring for specimens (whether living or preserved), objects and things of interest in the fields of botany, horticulture, biology, conservation of the natural environment or history
- (e) accumulating and classifying data in regard to any such matters
- (f) managing all lands and premises vested in, or placed under the control of, the Board
- (g) managing all funds vested in, or under the control of, the Board and applying those funds in accordance with the terms and conditions of any instrument of trust or other instrument affecting the disposition of those funds
- (h) carrying out, or promoting, research into matters of interest in the fields of botany, horticulture, biology, conservation of the natural environment or history
- (i) disseminating information of interest in the fields of botany, horticulture, biology, conservation of the natural environment or history
- (j) undertaking the commercial exploitation of knowledge acquired by the Board in the course of conducting research
- (k) selling or propagating and selling (whether alone or in partnership or joint venture with a nursery business) hybrids or cultivated varieties of plants that:
  - (i) have occurred spontaneously in the Board's gardens or been developed in the course of its research activities
  - (ii) are not widely commercially available in the State
- (l) providing consultant services
- (m) performing any other functions of scientific, educational or historical significance that may be assigned to the Board by regulation.

**(b) Financial Arrangements**

The financial activities of the Board are administered through the Botanic Gardens Endowment and Commercial Fund (the Fund) in accordance with the Act. The Fund is an interest bearing Deposit Account with the Department of Treasury and Finance (DTF) pursuant to section 21(1) of the *Public Finance and Audit Act 1987*.

The Fund's sources of revenue include:

- donations;
- grants and bequests;
- sponsorships;
- retail sales;
- fees and charges for services to the public.

The Department of Environment, Water and Natural Resources (DEWNR) conducts a large number of activities directed towards meeting the Board's responsibilities under the Act. Due to DEWNR receiving appropriation funding, and directing and controlling the expenditure for these activities, the revenue and expenditure relating to those activities are recognised in DEWNR's financial statements rather than the Board's. Activities undertaken by DEWNR in support of the administration of the Act and Board are disclosed in Note 29.

In accordance with the provisions of the Act, the Board has delegated certain functions to officers within DEWNR who provide certain technical and administrative support including the use of certain plant and equipment, office accommodation and various administrative services. The cost of the services provided that are identifiable with the activities of the Board and can be measured reliably, are met by the Board. Other support services that are not identifiable and/or cannot be measured reliably are provided free of charge and have not been recognised in these financial statements.

**2 Summary of significant accounting policies**

**(a) Statement of compliance**

The Board has prepared these financial statements in compliance with section 23 of the *Public Finance and Audit Act 1987*.

The financial statements are general purpose financial statements. The accounts have been prepared in accordance with Australian Accounting Standards and comply with Treasurer's Instructions and Accounting Policy Statements promulgated under the provisions of the *Public Finance and Audit Act 1987*.

The Board has applied Australian Accounting Standards that are applicable to not-for-profit entities, as the Board is a not-for-profit entity.

Australian Accounting Standards and interpretations that have recently been issued or amended but are not yet effective have not been adopted by the Board for the reporting period ending 30 June 2014. Refer to Note 3.



**Board of the Botanic Gardens and State Herbarium**  
**Notes to and forming part of the Financial Statements**  
**For the year ended 30 June 2014**

**(b) Basis of preparation**

The preparation of the financial statements requires:

- the use of certain accounting estimates and require management to exercise its judgement in the process of applying the Board's accounting policies. Areas involving a higher degree of judgement or where assumptions and estimates are significant to the financial statements, are outlined in the applicable notes;
- the selection and application of accounting policies in a manner which ensures that the resulting financial information satisfies the concepts of relevance and reliability, thereby ensuring that the substance of the underlying transactions or other events are reported; and
- compliance with Accounting Policy Statements issued pursuant to section 41 of the *Public Finance and Audit Act 1987*. In the interest of public accountability and transparency the Accounting Policy Statements require the following note disclosures, which have been included in these financial statements:
  - (a) revenues, expenses, financial assets and financial liabilities where the counterparty/transaction is with an entity within the SA Government as at reporting date, classified according to their nature. A threshold of \$100 000 for separate identification of these items may be utilised.
  - (b) expenses incurred as a result of engaging consultants.
  - (c) board/committee member and remuneration information, where a board/committee member is entitled to receive income from membership other than a direct out-of-pocket reimbursement.

The Board's Statement of Comprehensive Income, Statement of Financial Position and Statement of Changes in Equity have been prepared on an accrual basis and are in accordance with historical cost convention, except for certain assets that were valued in accordance with the valuation policy applicable.

The Statement of Cash Flows is prepared on a cash basis.

The financial statements have been prepared based on a twelve month period and presented in Australian currency.

The accounting policies set out below have been applied in preparing the financial statements for the year ended 30 June 2014 and the comparative information presented.

**(c) Reporting entity**

The Board is a reporting entity, established pursuant to the *Botanic Gardens and State Herbarium Act 1978*.

**(d) Comparative information**

The presentation and classification of items in the financial statements are consistent with prior periods except where specific accounting standards and/or accounting policy statements have required a change.

Where presentation or classification of items in the financial statements have been amended, comparative figures have been adjusted to conform to changes in presentation or classification in these financial statements unless impracticable.

The restated comparative amounts do not replace the original financial statements for the preceding period.

**(e) Rounding**

All amounts in the financial statements have been rounded to the nearest thousand dollars (\$'000).

**(f) Taxation**

The Board is not subject to income tax. The Board is liable for fringe benefits tax, emergency services levy, land tax equivalents and local government rate equivalents.

DEWNR prepares a Business Activity Statement on behalf of the Board under the grouping provisions of the GST legislation. Under these provisions, DEWNR is liable for the payments and entitled to the receipts associated with GST. Therefore, the Board's net GST receivable/payable is recorded in DEWNR's Statement of Financial Position. GST cash flows applicable to the Board are recorded in DEWNR's Statement of Cash Flows.

**(g) Events after the reporting period**

Adjustments are made to amounts recognised in the financial statements, where an event occurs after 30 June and before the date the financial statements are authorised for issue, where those events provide information about conditions that existed at 30 June.

Note disclosure is made about events between 30 June and the date the financial statements are authorised for issue where the events relate to a condition which arose after 30 June and which may have a material impact on the results of subsequent years.

**Board of the Botanic Gardens and State Herbarium**  
**Notes to and forming part of the Financial Statements**  
**For the year ended 30 June 2014**

**(h) Income**

Income is recognised to the extent that it is probable that the flow of economic benefits to the Board will occur and can be reliably measured.

Income has been aggregated according to its nature and has not been offset unless required or permitted by a specific accounting standard, or where offsetting reflects the substance of the transaction or other event.

The notes accompanying the financial statements disclose income where the counterparty/transaction is with an entity within the SA Government as at the reporting date, classified according to their nature.

Transactions with SA Government entities below the threshold of \$100 000 have been included with the non-government transactions, classified according to their nature.

The following are specific recognition criteria:

*Fees and Charges*

Revenues from fees and charges are derived from the provision of goods and services to other SA government agencies and to the public. This revenue is recognised upon delivery of the service to the clients or by reference to the stage of completion.

*Contributions received*

Contributions are recognised as an asset and income when the Board obtains control of the contributions or obtains the right to receive the contributions and the income recognition criteria are met (i.e. the amount can be reliably measured and the flow of resources is probable).

Generally, the Board has obtained control or the right to receive for:

- Contributions with unconditional stipulations - this will be when the agreement becomes enforceable ie the earlier of when the receiving entity has formally been advised that the contribution (e.g. grant application) has been approved; agreement/contract is executed; and/or the contribution is received.
- Contributions with conditional stipulations - this will be when the enforceable stipulations specified in the agreement occur or are satisfied; that is income would be recognised for contributions received or receivable under the agreement.

*Resources received free of charge*

Resources received free of charge are recorded as revenue in the Statement of Comprehensive Income at their fair value. Contributions of services are recognised only when a fair value can be determined reliably and the services would be purchased if they had not been donated.

*Net gain on non-current assets*

Income from the disposal of non-current assets is recognised when the control of the asset has passed to the buyer and determined by comparing proceeds with carrying amount. When revalued assets are sold, the revaluation surplus is transferred to retained earnings.

Gains on disposal of assets are recognised at the date control of the asset is passed to the buyer and are determined after deducting the cost of the asset from the proceeds at that time.

*Other income*

Other income consists of sponsorships, donations, commissions and bequests. This revenue is recognised upon receipt.

**(i) Expenses**

Expenses are recognised to the extent that it is probable that the flow of economic benefits from the Board will occur and can reliably measured.

Expenses have been aggregated according to their nature and have not been offset unless required or permitted by a specific accounting standard, or where offsetting reflects the substance of the transaction or other event.

The notes accompanying the financial statements disclose income where the counterparty/transaction is with an entity within the SA Government as at the reporting date, classified according to their nature.

Transactions with SA Government entities below the threshold of \$100 000 have been included with the non-government transactions, classified according to their nature.

The following are specific recognition criteria:

*Board member expenses*

Board member expenses include all board fees and related on-costs including superannuation. These are recognised when incurred.

*Superannuation*

The amount charged to the Statement of Comprehensive Income represents the contributions made by the Board to superannuation plans in respect of current services of current Board Members. The Department of Treasury and Finance centrally recognises the superannuation liability in the whole of government general purpose financial statements.

**Board of the Botanic Gardens and State Herbarium**  
**Notes to and forming part of the Financial Statements**  
**For the year ended 30 June 2014**

*Depreciation of non-current assets*

All non-current assets, having a limited useful life, are systematically depreciated over their useful lives in a manner that reflects the consumption of their service potential.

Assets' residual values and useful lives are reviewed and adjusted if appropriate, on an annual basis.

Changes in the expected useful life or the expected pattern of consumption of future economic benefits embodied in the asset are accounted for prospectively by changing the time period or method, as appropriate, which is a change in accounting estimate.

Land assets are not depreciated.

Depreciation is calculated on a straight line basis over the estimated useful life of the following classes of assets:

<b>Class of Asset</b>	<b>Useful Life (years)</b>
Park Infrastructure	3-60
Plant and Equipment	3-20
Roads, Tracks and Trails	6-35
Furniture and Fittings	10
Buildings and Improvements	15-80
Vehicles	3-12
Other	5-99

*Grants and subsidies*

For contributions payable, the contribution will be recognised as a liability and expense when the entity has a present obligation to pay the contribution and the expense recognition criteria are met.

All contributions paid by the Board have been contributions with unconditional stipulations attached.

*Net loss from the disposal of non-current assets*

An expense from the disposal of non-current assets is recognised when the control of the asset has passed to the buyer and has been determined by comparing proceeds with carrying amount.

Losses on disposal of non-current assets are recognised at the date control of the asset is passed to the buyer and are determined after deducting the cost of the asset from the proceeds at that time.

**(j) Current and non-current classification**

Assets and liabilities are characterised as either current or non-current in nature. Assets and liabilities that are sold, consumed or realised as part of the normal operating cycle even when they are not expected to be realised within twelve months after the reporting date have been classified as current assets or current liabilities. All other assets and liabilities are classified as non-current.

**(k) Assets**

Assets have been classified according to their nature and have not been offset unless required or permitted by a specific accounting standard, or where offsetting reflects the substance of the transaction or other event.

Where an asset line item combine amounts expected to be settled within twelve months and more than twelve months, the Board has separately disclosed the amounts expected to be recovered after more than twelve months.

*Cash and cash equivalents*

Cash and cash equivalents in the Statement of Financial Position includes cash at bank and on hand.

For the purposes of the Statement of Cash Flows, cash and cash equivalents consist of cash and cash equivalents as defined above.

Cash is measured at nominal value.

*Receivables*

Receivables include amounts receivable from goods and services provided and other accruals.

Receivables arise in the normal course of selling goods and services to other government agencies and to the public. Receivables are generally settled within 30 days after the issue of an invoice.

Collectability of receivables is reviewed on an ongoing basis. An allowance for doubtful debts is raised when there is objective evidence that the Board will not be able to collect the debt. Bad debts are written off when identified.

*Inventories*

Inventories include goods held either for sale or distribution at no or nominal cost in the ordinary course of business.

Inventories held for distribution, at no or nominal consideration, are measured at cost and adjusted when applicable for any loss of service potential. Inventories held for sale are measured at the lower of cost or their net realisable value.

Bases used in assessing loss of service potential for inventory held for distribution at no or minimal cost include current replacement cost and technological or functional obsolescence.

Cost for all inventory is measured on the basis of the first-in, first-out method. Net realisable value is determined using the estimated sales proceeds less costs incurred in marketing, selling and distribution to customers.

The amount of any inventory write-down to net realisable value or inventory losses are recognised in the Statement of Comprehensive Income as an expense in the period the write-down or loss occurred. Any write-down reversals are recognised as an expense reduction in the Statement of Comprehensive Income.

**Board of the Botanic Gardens and State Herbarium**  
**Notes to and forming part of the Financial Statements**  
**For the year ended 30 June 2014**

*Non-current assets*

Acquisition and recognition

Non-current assets are initially recorded at cost or at the value of any liabilities assumed, plus any incidental costs involved with the acquisition. Non-current assets are subsequently measured at fair value less accumulated depreciation.

Where assets are acquired at no value, or minimal value, they are recorded at their fair value in the Statement of Financial Position. However, if the assets are acquired at no or nominal value as part of a restructuring of administrative arrangements then the assets are recognised at book value, i.e. the amount recorded by the transferor public authority prior to the restructure.

All non-current tangible assets with a value of \$10 000 and over are capitalised.

State Herbarium Collection

The State Herbarium is the State's major provider of authoritative data and information on the plants, algae and fungi of South Australia. The collections of the State Herbarium comprise a large sustainable sample of the flora of South Australia, Australia and the world, particularly Mediterranean regions. These specimens, of which there are approximately 1 million, while providing a unique scientific resource require considerable maintenance.

The State Herbarium Collection is a heritage asset which is considered so unique that it is not capable of reliable measurement. Hence, the value of the collection has not been recognised in the Financial Statements in accordance with APF III Asset Accounting Framework.

Revaluation of non-current assets

All non-current tangible assets are valued at fair value; and revaluation of a non-current assets or group of assets is only performed when its fair value at the time of acquisition is greater than \$1 million and estimated useful life is greater than three years.

Asset classes that did not satisfy this criteria and are therefore deemed to be at fair value are:

- Furniture and fittings;
- Plant and equipment;
- Vehicles.

Every three years, the Board revalues its books and artefacts, land, buildings and improvements, park infrastructure and roads, tracks and trails via a Certified Practising Valuer or internal estimates based on indices or recent transactions. A valuation appraisal by a Certified Practising Valuer is performed at least every 6 years.

If at any time, management considers that the carrying amount of an asset materially differs from its fair value, then the asset will be revalued regardless of when the last valuation took place.

Non-current tangible assets that are acquired between revaluations are held at cost until the next valuation, when they are revalued to fair value.

Property, plant and equipment assets due for revaluation are assessed to determine whether they should be classified as generic assets or unique assets.

Generic building, infrastructure and road assets are valued using a data dictionary approach. The data dictionary model is contained within DEWNR's ARAMIS system. The data dictionary model calculates a value for an asset based on description, grade / composition, condition and size / quantity. The model value is adjusted by a locality factor to take into account climatic conditions. The valuation model itself is reviewed every three years.

Unique assets are items which cannot be categorised within standard data dictionary groups. Assets that are deemed to be unique are externally valued by independent professional valuers.

The valuers used by the Board in 2011-12 are as follows:

- 1 July 2011, valuation of data dictionary: buildings, infrastructure and roads, Valcorp Australia Pty Ltd, Mr F. Taormina, BAppSc (Val), AAPI
- 1 July 2011, independent professional valuation, Herron Todd White, Mr Paul Tilley, FAPI, AREI, CREI (Val)
- 1 July 2011, valuation of other items:
  - Library collections, Michael Treloar, Antiquarian and member of ANZAAB, ILAB and AAADA
  - Fine Art Collections and Artefacts, Anthony Hurl, BA, MSA, MAASA, CINO, Fine Art Valuer (Herron Todd White)

The fair value of unique items was determined by identifying a market buying price, estimated as written down modern equivalent replacement cost. The fair value of land and buildings was based on recent market transactions for similar land and buildings in the area taking into account zoning and restrictions on use.

Any revaluation increment is credited to the asset revaluation surplus, except to the extent that it reverses a revaluation decrease of the same asset class previously recognised as an expense, in which case the increase is recognised as income. Any revaluation decrease is recognised as an expense, except to the extent that it offsets a previous revaluation increase for the same asset class, in which case the decrease is debited directly to the asset revaluation surplus to the extent of the credit balance existing in the revaluation surplus for that asset class.

Any accumulated depreciation as at the revaluation date is eliminated against the gross carrying amounts of the assets and the net amounts are restated to the revalued amounts of the asset.

**Board of the Botanic Gardens and State Herbarium**  
**Notes to and forming part of the Financial Statements**  
**For the year ended 30 June 2014**

Restrictions on use - land

Section 14 of the *Botanic Gardens and State Herbarium Act 1978* states that the Board may not dispose of any interest in land vested in it, nor may it be divested of the control of any land placed under its control, except in pursuance of a resolution passed by both Houses of Parliament.

Given the restrictions on the use and disposal of Board land, Herron Todd White adopted an income approach in estimating the fair value of land assets. This value is significantly less than the proceeds that would be obtained in an open market for land of a comparable size and location.

Impairment

All non-current tangible and intangible assets are tested for indications of impairment at each reporting date. Where there is an indication of impairment, the recoverable amount is estimated. An amount by which the asset's carrying amount exceeds the recoverable amount is recorded as an impairment loss.

For revalued assets, an impairment loss is offset against the respective asset revaluation surplus.

Error correction

An error correction of \$287,000 has been disclosed in the Statement of Changes in Equity. The error correction has been retrospectively restated in accordance with *AASB 108 Accounting Policies, Changes in Accounting Estimates and Errors*, and comprises a net increase to the carrying values of property, plant and equipment assets. The error correction relates to data dictionary asset revisions.

Fair value measurement

AASB 13 defines fair value as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants, in the principal or most advantageous market, at the measurement date.

The Board classifies fair value measurement using the following fair value hierarchy that reflects the significance of the inputs used in making the measurements, based on the data and assumptions used in the most recent revaluation.

- Level 1 - traded in active markets and is based on unadjusted quoted prices in active markets for identical assets or liabilities that the entity can access at measurement date.
- Level 2 - not traded in an active market and derived from inputs (inputs other than quoted prices included within level 1) that are observable for the asset, either directly or indirectly.
- Level 3 - not traded in an active market and are derived from unobservable inputs.

Non-financial assets

In determining fair value, the Board has taken into account the characteristic of the asset (e.g. condition and location of the asset and any restrictions on the sale or use of the asset); and the asset's highest and best use (that is physically possible, legally permissible, financially feasible).

The Boards' current use is the highest and best use of the assets unless other factors suggest an alternative use is feasible. As the Board did not identify any factors to suggest an alternative use, fair value measurement was based on current use.

The carrying amount of non-financial assets with a 'fair value at the time of acquisition that was less than \$1 million or had an estimated useful life that was less than three years' are deemed to approximate fair value.

Refer to Notes 19 and 20 for disclosure regarding fair value measurement techniques and inputs used to develop fair value measurements for non-financial assets.

**(l) Liabilities**

Liabilities have been classified according to their nature and have not been offset unless required or permitted by a specific accounting standard, or where offsetting reflects the substance of the transaction or other event.

Where a liability line item combine amounts expected to be settled within twelve months and more than twelve months, the Board has separately disclosed the amounts expected to be settled after more than twelve months.

Payables

Payables include creditors, accrued expenses and board member remuneration on-costs.

Creditors represent the amounts owing for goods and services received prior to the end of the reporting period that are unpaid at the end of the reporting period. Creditors include all unpaid invoices received relating to the normal operations of the Board.

Accrued expenses represent goods and services provided by other parties during the period that are unpaid at the end of the reporting period and where an invoice has not been received.

All payables are measured at their nominal amount and are normally settled within 30 days from the date of the invoice or the date the invoice is first received.

The Board makes contributions to several State Government and externally managed superannuation schemes. These contributions are treated as an expense when they occur. There is no liability for payments to beneficiaries as they have been assumed by the respective superannuation schemes. The only liability outstanding at reporting date relates to any contributions due but not yet paid to the South Australian Superannuation Board.



**Board of the Botanic Gardens and State Herbarium**  
**Notes to and forming part of the Financial Statements**  
**For the year ended 30 June 2014**

*Employee benefits*

The Board has no employees. Services to the Board are provided by personnel employed by DEWNR, hence no employee benefits or related provisions are included in the Board's financial statements. Employee benefits relating to relevant employees are reflected in the financial statements of DEWNR.

**(m) Unrecognised contractual commitments and contingent assets and liabilities**

Contingent assets and contingent liabilities are not recognised in the Statement of Financial Position, but are disclosed by way of a note and, if quantifiable, are measured at nominal value.

Unrecognised contractual commitments and contingencies are disclosed net of the amount of GST recoverable from, or payable to the Australian Taxation Office. If GST is not payable to, or recoverable from the Australian Taxation Office, the commitments and contingencies are disclosed on a gross basis.

**3 New and revised accounting standards and policies**

The Board did not voluntarily change any of its accounting policies during 2013-14.

In accordance with the new AASB 13 *Fair Value Measurement*, which became effective for the first time in 2013-14, the Board has:

- reviewed its fair value valuation techniques (both internal estimates and independent valuation appraisal) for non-financial assets to ensure they are consistent with the standard. Previously, the Board has used the cost approach or the market approach to determine fair value. The Board will continue to measure its non-financial assets using either the cost or market approach. The application of AASB 13 has not had a material impact on the fair value measurements; and
- included additional disclosures where required to assist users in assessing the valuation techniques and inputs used to ascertain fair value measurements used for asset and liability measurements.

Fair value hierarchy and other information is provided in Notes 19 and 20.

Australian Accounting Standards and interpretations that have recently been issued or amended but are not yet effective, have not been adopted by the Board for the period ending 30 June 2014. The Board has assessed the impact of the new and amended standards and interpretations and considers there will be no impact on the accounting policies or the financial statements of the Board.

**4 Programs of the Board**

In achieving its objectives the Board conducts its services through a single program, Botanic Gardens Management. The purpose of this program is to manage the natural and cultural resources of the Botanic Gardens and State Herbarium to advance plant appreciation, knowledge and conservation through our natural and cultural collections and programs.

**Board of the Botanic Gardens and State Herbarium**  
**Notes to and forming part of the Financial Statements**  
**For the year ended 30 June 2014**

<b>5 Board member expenses</b>	<b>2014</b>	<b>2012</b>
	\$'000	\$'000
Board and committee fees	105	107
Remuneration on-costs - superannuation	8	7
Remuneration on-costs - other	6	6
Other board related expenses	-	1
<b>Total: Board member expenses</b>	<b>119</b>	<b>121</b>
<b>6 Supplies and services</b>	<b>2014</b>	<b>2013</b>
	\$'000	\$'000
Accommodation and property management expenses	204	41
Contractors	3	1
Fee for service	257	286
General administration	152	155
Minor works, maintenance & equipment	40	56
Travel and accommodation	-	3
Other	8	5
<b>Total: Supplies and services</b>	<b>664</b>	<b>547</b>
<b>7 Depreciation expense</b>	<b>2014</b>	<b>2013</b>
	\$'000	\$'000
Buildings and improvements	628	580
Furniture and fittings	182	182
Vehicles	17	14
Park infrastructure	756	805
Roads, tracks and trails	103	139
Plant and equipment	90	92
Other	75	75
<b>Total: Depreciation</b>	<b>1,851</b>	<b>1,887</b>
<b>8 Grants and subsidies</b>	<b>2014</b>	<b>2013</b>
	\$'000	\$'000
State Government	786	1,155
Universities	-	20
<b>Total: Grants and subsidies</b>	<b>786</b>	<b>1,175</b>
<b>Grants and subsidies paid/payable to entities within the SA Government</b>		
Department of Environment, Water and Natural Resources	786	1,155
<b>Total: Grants and subsidies paid/payable to entities within the SA Government</b>	<b>786</b>	<b>1,155</b>
<b>9 Net (loss)/gain from the disposal of non-current assets</b>	<b>2014</b>	<b>2013</b>
	\$'000	\$'000
<b>Buildings</b>		
Proceeds from disposal	-	-
Less: Net book value of assets disposed	(44)	-
<b>Net (loss)/gain from disposal</b>	<b>(44)</b>	<b>-</b>
<b>Park infrastructure</b>		
Proceeds from disposal	-	-
Less: Net book value of assets disposed	-	(3)
<b>Net (loss)/gain from disposal</b>	<b>-</b>	<b>(3)</b>
<b>Roads, tracks and trails</b>		
Proceeds from disposal	-	-
Less: Net book value of assets disposed	(2)	-
<b>Net (loss)/gain from disposal</b>	<b>(2)</b>	<b>-</b>
<b>Moveable vehicles</b>		
Proceeds from disposal	6	-
Less: Net book value of assets disposed	-	-
<b>Net gain/(loss) from disposal</b>	<b>6</b>	<b>-</b>
<b>Total: Assets</b>		
Total proceeds from disposal	6	-
Less: total value of assets disposed	(46)	(3)
<b>Total: Net (loss)/gain from disposal of non-current assets</b>	<b>(40)</b>	<b>(3)</b>

**Board of the Botanic Gardens and State Herbarium**  
**Notes to and forming part of the Financial Statements**  
**For the year ended 30 June 2014**

<b>10 Other expenses</b>	<b>2014</b>	<b>2013</b>
	\$'000	\$'000
Other (incl audit fees)	52	76
<b>Total: Other expenses</b>	<b>52</b>	<b>76</b>
Audit fees paid/payable to the Auditor-General's Department relating to the audit of financial statements	32	32
<b>Total: Audit fees</b>	<b>32</b>	<b>32</b>
<b>Other services</b>		
No other services were provided by the Auditor-General's Department		
<b>11 Revenues from fees and charges</b>	<b>2014</b>	<b>2013</b>
	\$'000	\$'000
Admissions and guided tours	11	9
Expiation fees	208	178
Property rental and related income	167	178
Sale of goods	13	11
Car parking	605	539
Garden functions	169	170
Sale of support services	-	15
<b>Total: Revenue from fees and charges</b>	<b>1,173</b>	<b>1,100</b>
<b>12 Grant revenues</b>	<b>2014</b>	<b>2013</b>
	\$'000	\$'000
Grants received from other entities within the SA Government	119	170
<b>Total: Grant revenues</b>	<b>119</b>	<b>170</b>
<b>Grant revenues received/receivable from entities within the SA Government</b>		
Department of Environment, Water and Natural Resources *	119	120
Other state government grants	-	50
<b>Total: Grant revenues received/receivable from entities within the SA Government</b>	<b>119</b>	<b>170</b>
* Department of Environment, Water and Natural Resources contributions:		
Sitting fee reimbursement	119	120
	119	120
<b>13 Interest revenues</b>	<b>2014</b>	<b>2013</b>
	\$'000	\$'000
Interest on deposit accounts - from entities within the SA Government	92	102
<b>Total: Interest revenues</b>	<b>92</b>	<b>102</b>
<b>14 Resources received free of charge</b>	<b>2014</b>	<b>2013</b>
	\$'000	\$'000
<b>Resources received free of charge from entities within the SA Government</b>		
Buildings	-	96
Park infrastructure	-	283
Roads, tracks and trails	-	203
Vehicles	20	105
Plant and equipment	-	40
<b>Total: Resources received free of charge from entities within the SA Government</b>	<b>20</b>	<b>727</b>
During 2013-14, only one asset was transferred free of charge from DEWNR to the Board of the Botanic Gardens and State Herbarium.		
<b>15 Other income</b>	<b>2014</b>	<b>2013</b>
	\$'000	\$'000
Sponsorships, donations, commissions and bequests	18	881
Other sundry revenue	6	70
<b>Total: Other income</b>	<b>24</b>	<b>951</b>
<b>16 Cash and cash equivalents</b>	<b>2014</b>	<b>2013</b>
	\$'000	\$'000
Deposits with the Treasurer	2,906	3,534
<b>Total: Cash and cash equivalents</b>	<b>2,906</b>	<b>3,534</b>
<b>Interest rate risk</b>		
Cash deposits are recognised at their nominal amounts and interest is credited to revenue as it accrues. The Board invests surplus funds with the Treasurer. Interest is earned on the average monthly balance at rates based on the DTF 90 day average overnight cash interest rate and interest is paid at the end of each quarter.		

**Board of the Botanic Gardens and State Herbarium**  
**Notes to and forming part of the Financial Statements**  
**For the year ended 30 June 2014**

<b>17 Receivables</b>	<b>2014</b>	<b>2013</b>
	\$'000	\$'000
<b>Current</b>		
Receivables	31	78
Accrued revenues	8	9
<b>Total: Current receivables</b>	<u>39</u>	<u>87</u>
<b>Receivables from entities within the SA Government</b>		
Accrued revenues	8	9
<b>Total: Receivables from entities within the SA Government</b>	<u>8</u>	<u>9</u>

**Interest rate and credit risk**

Receivables are raised for all goods and services provided for which payment has not been received. Receivables are normally settled within 30 days. Receivables and accrued revenues are non-interest bearing. It is not anticipated that counterparties will fail to discharge their obligations. The carrying amount of receivables approximates net fair value due to being receivable on demand. There is no concentration of credit risk.

(a) **Maturity analysis of receivables** - Please refer to Note 28.

(b) **Categorisation of financial instruments and risk exposure information** - Please refer to Note 28.

<b>18 Inventories</b>	<b>2014</b>	<b>2013</b>
	\$'000	\$'000
<b>Inventories held for resale - at cost</b>		
Finished goods held for resale - at cost	73	92
<b>Total: Inventories</b>	<u>73</u>	<u>92</u>

<b>19 Property, plant and equipment</b>	<b>2014</b>	<b>2013</b>
	\$'000	\$'000
<b>Land</b>		
Independent valuation <sup>(i)</sup>	3,767	3,767
At cost <sup>(ii)</sup>	750	-
<b>Total: Land</b>	<u>4,517</u>	<u>3,767</u>
<b>Buildings and improvements</b>		
Independent valuation <sup>(i)</sup>	38,064	38,400
Less: Accumulated depreciation	(16,538)	(16,202)
<b>Total: Buildings and improvements</b>	<u>21,526</u>	<u>22,198</u>
<b>Park infrastructure</b>		
Independent valuation <sup>(i)</sup>	54,052	54,052
At cost <sup>(ii)</sup>	2,335	2,335
Less: Accumulated depreciation	(50,498)	(49,742)
<b>Total: Park infrastructure</b>	<u>5,889</u>	<u>6,645</u>
<b>Roads, tracks and trails</b>		
Independent valuation <sup>(i)</sup>	3,545	3,797
At cost <sup>(ii)</sup>	491	491
Less: Accumulated depreciation	(2,988)	(3,135)
<b>Total: Roads, tracks and trails</b>	<u>1,048</u>	<u>1,153</u>
<b>Vehicles</b>		
At cost (deemed fair value) <sup>(iii)</sup>	340	441
Less: Accumulated depreciation	(202)	(306)
<b>Total: Vehicles</b>	<u>138</u>	<u>135</u>
<b>Furniture and fittings</b>		
At cost (deemed fair value) <sup>(iii)</sup>	1,794	1,794
Less: Accumulated depreciation	(1,098)	(916)
<b>Total: Furniture and fittings</b>	<u>696</u>	<u>878</u>
<b>Plant and equipment</b>		
At cost (deemed fair value) <sup>(iii)</sup>	813	813
Less: Accumulated depreciation	(503)	(413)
<b>Total: Plant and equipment</b>	<u>310</u>	<u>400</u>
<b>Other - Books and Artefacts</b>		
Independent valuation <sup>(i)</sup>	7,784	7,784
Less: Accumulated depreciation	(1,422)	(1,347)
<b>Total: Other</b>	<u>6,362</u>	<u>6,437</u>
<b>Total: Property, plant and equipment</b>	<u>40,486</u>	<u>41,613</u>

**Board of the Botanic Gardens and State Herbarium**  
**Notes to and forming part of the Financial Statements**  
**For the year ended 30 June 2014**

**Carrying amounts of property, plant and equipment**

Classes of property, plant and equipment are valued as follows:

i Independent valuation:

Generic assets are valued using the Data Dictionary model. Unique assets are items which can not be categorised within the standard Data Dictionary groups. These assets are valued separately by independent professional valuers. Refer to Note 2(k) for further details.

ii At cost (acquisition cost):

This class includes one or more items that have an acquisition cost exceeding \$1m. All assets within this class are temporarily held at cost pending revaluation that occurs no later than three years from acquisition date.

iii At cost (deemed fair value):

These assets have an acquisition cost below \$1m and are deemed held at fair value pursuant to Accounting Policy Framework III.

**Impairment**

There were no indications of impairment of property, plant and equipment as at 30 June 2014.

**Movement reconciliation of property, plant and equipment:**

	Land	Buildings	Park infra- structure	Roads, tracks & trails	Vehicles	Furniture & fittings	Plant & equipment	Other	2014 Sub-total	2013 Sub-total
	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
<b>2014</b>										
Carrying amount at the start of period	3,767	22,198	6,645	1,153	135	878	400	6,437	41,613	
Acquisitions	750	-	-	-	-	-	-	-	750	
Assets received for nil consideration	-	-	-	-	20	-	-	0	20	
Disposals	-	(44)	-	(2)	-	-	-	-	(46)	
<b>Subtotal</b>	<b>750</b>	<b>(44)</b>	<b>-</b>	<b>(2)</b>	<b>20</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>724</b>	
Gains/(losses) for the period recognised in net result:										
Depreciation expense	-	(628)	(756)	(103)	(17)	(182)	(90)	(75)	(1,851)	
<b>Subtotal</b>	<b>-</b>	<b>(628)</b>	<b>(756)</b>	<b>(103)</b>	<b>(17)</b>	<b>(182)</b>	<b>(90)</b>	<b>(75)</b>	<b>(1,851)</b>	
Carrying amount at the end of period	4,517	21,526	5,889	1,048	138	696	310	6,362	40,486	
<b>2013</b>										
Carrying amount at the start of period	3,767	22,682	7,170	1,089	44	1,060	452	6,512		42,776
Assets received for nil consideration	-	96	283	203	105	-	40	-		727
Disposals	-	-	(3)	-	-	-	-	-		(3)
<b>Subtotal</b>	<b>-</b>	<b>96</b>	<b>280</b>	<b>203</b>	<b>105</b>	<b>-</b>	<b>40</b>	<b>-</b>	<b>-</b>	<b>724</b>
Gains/(losses) for the period recognised in net result:										
Depreciation expense	-	(580)	(805)	(139)	(14)	(182)	(92)	(75)		(1,887)
<b>Subtotal</b>	<b>-</b>	<b>(580)</b>	<b>(805)</b>	<b>(139)</b>	<b>(14)</b>	<b>(182)</b>	<b>(92)</b>	<b>(75)</b>	<b>-</b>	<b>(1,887)</b>
Carrying amount at the end of period	3,767	22,198	6,645	1,153	135	878	400	6,437		41,613

**20 Fair value measurement**

**Fair value hierarchy**

The fair value of non-financial assets must be estimated for recognition and measurement or for disclosure purposes. The Board categorises non-financial assets measured at fair value into hierarchy based on the level of inputs use in measurement.

Fair value measurements recognised in the balance sheet are categorised into the following levels at 30 June 2014.

The Board had no valuations categorised into level 1 or level 2.

**Fair value measurements at 30 June 2014**

**Recurring fair value measurements**

	<b>Level 3</b>
	\$'000
Land	4,517
Buildings and improvements	21,526
Park infrastructure	5,889
Roads, tracks and rails	1,048
Other - Books and Artefacts	6,362
Vehicles	138
Furniture and fittings	696
Plant and equipment	310
<b>Total recurring fair value measurements</b>	<b>40,486</b>

Comparative information for non-financial assets has not been provided as permitted by the transitional provisions of the new standard.

There were no transfers of assets between level 1 and 2 fair value hierarchy levels in 2014. The Board's policy is to recognise transfers into and out of fair value hierarchy levels as at the end of the reporting period.



**Board of the Botanic Gardens and State Herbarium**  
**Notes to and forming part of the Financial Statements**  
**For the year ended 30 June 2014**

**Valuation techniques and inputs**

Valuation techniques used to derive level 3 fair values together with the reconciliation of level 3 fair value measurements are detailed at Note 19. The following table summarises the quantitative information about the significant unobservable inputs used in Level 3 fair value measurement.

Description	Valuation technique	Unobservable input	Range of inputs
Land	Market comparable	Adjusted market value	refer Note 19, 2 (i) & (k)
Buildings and improvements	Depreciated replacement cost (1)	Cost, Useful Life	refer Note 19, 2 (i) & (k)
Park infrastructure	Depreciated replacement cost (1)	Cost, Useful Life	refer Note 19, 2 (i) & (k)
Roads, tracks and trails	Depreciated replacement cost (1)	Cost, Useful Life	refer Note 19, 2 (i) & (k)
Vehicles	Depreciated Cost	Cost, Useful Life	refer Note 19, 2 (i) & (k)
Furniture and fittings	Depreciated Cost	Cost, Useful Life	refer Note 19, 2 (i) & (k)
Plant and equipment	Depreciated Cost	Cost, Useful Life	refer Note 19, 2 (i) & (k)
Other - Books and Artefacts	Depreciated replacement cost	Cost, Useful Life	refer Note 19, 2 (i) & (k)

(1) The data dictionary model is contained within DEWNR's Asset Register and Management Information System (ARAMIS) and calculates a value for an asset based on description, grade / composition, condition and size / quantity.

**21 Payables**

	2014	2013
	\$'000	\$'000
<b>Current</b>		
Accrued expenses	31	26
Creditors	313	56
<b>Total: Current Payables</b>	<u>344</u>	<u>82</u>
<b>Payables to entities within the SA Government</b>		
Accrued expenses	30	26
Creditors	193	2
<b>Total: Payables to entities within the SA Government</b>	<u>223</u>	<u>28</u>

**Interest rate and credit risk**

Creditors and accruals are raised for all amounts billed but unpaid. Sundry creditors are normally settled within 30 days. All payables are non-interest bearing. The carrying amount of payables represents fair value due to the amounts being payable on demand.

(a) **Maturity analysis of payables** - Please refer to Note 28.

(b) **Categorisation of financial instruments and risk exposure information** - Please refer to Note 28.

**22 Cash flow reconciliation**

	2014	2013
	\$'000	\$'000
<b>Reconciliation of cash and cash equivalents at the end of the reporting period:</b>		
Cash and cash equivalents disclosed in the Statement of Financial Position	2,906	3,534
Cash and cash equivalents disclosed in the Statement of Cash Flows	2,906	3,534
<b>Reconciliation of net cash provided by operating activities to net result</b>		
Net cash provided/(used in) by operating activities	116	466
<b>Add/(less) non-cash items</b>		
Depreciation expense of non-current assets	(1,851)	(1,887)
Assets received free of charge	20	727
Net (loss) from disposal of non-current assets	(40)	(3)
<b>Movement in assets and liabilities</b>		
(Decrease)/Increase in receivables	(48)	30
(Decrease) in inventories	(19)	(44)
(Increase) in payables	(262)	(48)
<b>Net result</b>	<u>(2,084)</u>	<u>(759)</u>

**Board of the Botanic Gardens and State Herbarium**  
**Notes to and forming part of the Financial Statements**  
**For the year ended 30 June 2014**

**23 Restrictions on contributions received**

The Board is engaged in a variety of funding programs involving State and Commonwealth sources that provide monies to the Board on the premise that these funds are expended in a manner consistent with the terms of the agreement. At reporting date the Board had the following outstanding funding commitments:

	2014	2013
	\$'000	\$'000
Books and publications	115	103
Garden improvements	1,834	1,883
Research	175	215
Other	674	1,659
<b>Total: Restrictions on contributions received</b>	<b>2,798</b>	<b>3,860</b>

**24 Unrecognised contractual commitments**

The Board had no unrecognised contractual commitments as at 30 June 2014. All capital commitments associated with the Board are managed by the Department of Environment, Water and Natural Resources and reflected in their financial statements.

**25 Contingent assets and liabilities**

The Board is not aware of the existence of any contingent assets or contingent liabilities.

**26 Remuneration of board members**

Members of the board and committee during the 2013-14 financial year were:

**Board of the Botanic Gardens & State Herbarium**

Dimonte R  
 Elstob, C A  
 Howe, A D  
 Jenkinson, H S  
 Knox, D J W  
 Levy, J A W  
 Potter, J \*  
 Stirling I F

\* *Presiding Member*

The number of members whose remuneration received or receivable falls within the following bands:

	2014	2013
	No. of members	No. of members
\$nil	-	2
\$10 000 - \$19 999	7	7
\$20 000 - \$29 999	1	1
<b>Total number of members</b>	<b>8</b>	<b>10</b>

Remuneration of members reflects all costs of performing board/committee member duties including sitting fees and super contributions, salary sacrifice benefits and fringe benefits and any fringe benefits tax paid or payable in respect of those benefits. The total remuneration received or receivable by members was \$113 000 (2013: \$115 000).

In accordance with the Premier and Cabinet Circular No. 016, government employees are not entitled to receive any remuneration for board/committee duties during the financial year. There were no government employees on the Board.

**27 Events after the reporting period**

There are no known events after balance date that affect these general purpose financial statements in a material manner.

**28 Financial instruments / financial risk management**

**Categorisation of financial instruments**

Details of the significant accounting policies and methods adopted including the criteria for recognition, the basis of measurement, and the basis on which income and expenses are recognised with respect to each class of financial asset, financial liability and equity instrument are disclosed in Note 2 Summary of Significant Accounting Policies.

Category of financial assets and financial liabilities	Note number	2014		2013	
		Carrying amount	Fair value	Carrying amount	Fair value
		\$'000	\$'000	\$'000	\$'000
<b>Financial assets</b>					
Cash and cash equivalents	16	2,906	2,906	3,534	3,534
Receivables <sup>(1)</sup>	17	39	39	87	87
<b>Financial liabilities</b>					
Payables <sup>(1)</sup>	21	314	314	56	56

**Board of the Botanic Gardens and State Herbarium**  
**Notes to and forming part of the Financial Statements**  
**For the year ended 30 June 2014**

- (1) Receivable and payable amounts disclosed here exclude amounts relating to statutory receivables and payables (e.g. Commonwealth, State and Local Govt taxes, fees and charges; audit fees payable to the Auditor-General's Dept etc). In government, certain rights to receive or pay cash may not be contractual and therefore in these situations, the requirements will not apply. Where rights or obligations have their source in legislation such as levy receivables/payables, tax equivalents, commonwealth tax etc they would be excluded from the disclosure. The standard defines contract as enforceable by law. All amounts recorded are carried at cost (not materially different from amortised cost).

**Fair Value**

The Board does not recognise any financial assets or financial liabilities at fair value, but does disclose fair value in the notes.

- The carrying value less impairment provisions of receivables and payables is a reasonable approximation of their fair values due to the short-term nature of these. Refer to Notes 2, 17 and 21.

**Credit risk**

Credit risk arises when there is the possibility of the Board's debtors defaulting on their contractual obligations resulting in financial loss to the Board. The Board measures credit risk on a fair value basis and monitors risk on a regular basis.

The carrying amount of financial assets as detailed in the table represents the Board's maximum exposure to credit risk.

No collateral is held as security and no credit enhancements related to financial assets held by the Board.

The Board has minimal concentration of credit risk. The Board has policies and procedures in place to ensure that transactions occur with customers with appropriate credit history. The Board does not engage in high risk hedging for its financial assets.

Allowances for impairment of financial assets are calculated on past experience and current and expected changes in credit rating. At reporting date, there is no evidence to indicate that any of the financial assets are impaired.

**Ageing analysis of financial assets**

The following table discloses the ageing of financial assets, past due, including impaired assets past due.

Financial assets item	Current (Not overdue)	Overdue for < 30 days	Overdue for 30-60 days	Overdue for > 60 days	Total
	\$'000	\$'000	\$'000	\$'000	\$'000
<b>2014</b>					
Not impaired Receivables	24	3	12	-	39
<b>2013</b>					
Not impaired Receivables	73	14	-	-	87

**Maturity analysis of financial assets and liabilities**

All financial assets and liabilities are due to mature within one year.

**Liquidity risk**

Liquidity risk arises where the Board is unable to meet its financial obligations as they are due to be settled. The Board works with the Department of Treasury and Finance to determine the cash flows associated with its Government approved program of work and to ensure funding is provided through SA Government budgetary processes to meet the expected cash flows. The Board settles undisputed accounts within 30 days from the date of the invoice or date the invoice is first received. In the event of a dispute, payment is made 30 days from resolution.

The Board's exposure to liquidity risk is insignificant based on past experience and current assessment of risk.

The carrying amount of financial liabilities recorded in the Categorisation of financial instruments table represents the Board's maximum exposure to financial liabilities

**Market risk**

The Board has no interest bearing liabilities as at the end of the reporting period. There is no exposure to foreign currency or other price risks.

**Sensitivity disclosure analysis**

A sensitivity analysis has not been undertaken for the interest rate risk of the Board as it has been determined that the possible impact on profit and loss or total equity from fluctuations in interest rates is immaterial.

**29 Activities undertaken by Department of Environment, Water and Natural Resources**

The following details the expenses and revenues incurred by the Department of Environment, Water and Natural Resources in performing activities associated with the Board.

	2014 \$'000	2013 \$'000
<b>Expenses from ordinary activities</b>		
Employee benefits	6,864	4,870
Supplies and services	4,448	3,254
Grants and subsidies	121	-
Depreciation expense	256	284
Net loss/(gain) from disposal of non-current assets	3	(6)
Other expenses	10	-
<b>Total: Expenses from ordinary activities</b>	<b>11,702</b>	<b>8,402</b>

**Board of the Botanic Gardens and State Herbarium**  
**Notes to and forming part of the Financial Statements**  
**For the year ended 30 June 2014**

<b>Revenues from ordinary activities</b>		
Revenues from fees and charges	888	4
Grant revenues	1,188	1,952
Other income	54	118
<b>Total: Revenues from ordinary activities</b>	<u><b>2,130</b></u>	<u><b>2,074</b></u>
<b>Revenues from / payments to SA Government</b>		
Revenues from SA Government	7,139	-
<b>Total Net revenues from SA Government</b>	<u><b>7,139</b></u>	<u><b>-</b></u>
<b>Net cost of activities undertaken by Department of Environment, Water and Natural Resources</b>	<u><b>(2,433)</b></u>	<u><b>(6,328)</b></u>

## **Appendices**

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Board of the Botanic Gardens and State Herbarium

## Appendix 1 | Publications

Staff or associates assigned to the business of the Board are in **bold**. \* denotes refereed publication.

**Aleman R, Jusaitis M**, Gibbs J, Petit S (2013). Conservation translocation of the large-headed daisy to Mount Bold, South Australia. In: Soorae PS (ed.), *Global Re-introduction Perspectives: 2013. Further case studies from around the globe*, pp 272-276. (IUCN/SSC Re-introduction Specialist Group: Abu Dhabi, UAE).

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## Appendix 2 | Presentations

**Brodie CJ** (2013-2014). Introduction to the State Herbarium & Collection of herbarium specimens. *South East NRM Weed Spotters*. Workshops in Robe (4 Nov. 2013), Mt Gambier (5 Nov. 2013, 22 May 2014), Keith (6 Nov. 2013) & Naracoorte (7 Nov. 2013).

**Brodie CJ** (2013). Herbarium workshop: introduction to the State Herbarium & Collection of herbarium specimens. *Cape Jervis Coast Group*. Workshop in Cape Jervis (5 Apr. 2014).

**Barker WR** (2013). [Presidential duties at annual conference.] *Australasian Systematic Botany Society, Society of Australian Systematic Biologists and Invertebrate Biodiversity and Conservation*, Sydney, 1-6 Dec. 2013.

**Barker WR** (2013). Nomination and presentation of Nancy Burbidge Medal for outstanding contribution to Australasian plant systematics to Emeritus Professor Phil Garnock-Jones. *Australasian Systematic Botany Society, Society of Australian Systematic Biologists and Invertebrate Biodiversity and Conservation*, Sydney, 1-6 Dec. 2013.

**Brodie CJ** (2014). New weeds threats to South Australia. *4th South Australian Weeds Conference*, Plant Research Centre, Waite Campus, Adelaide, 6-7 May 2014.

**Catcheside PS** (2013). New species of Fungi for South Australia. *It's all about the plants*, State Herbarium of South Australia, Adelaide, 5 November 2013.

**Catcheside PS** (2014). Ascomycetes. *Queensland fungi Festival*, Brisbane, Qld, 27 April 2014.

**Catcheside PS** (2014). The fungi of Kangaroo Island. *Friends of Parks Forum*, Kingscote, Kangaroo Island, 10-12 May. 2014.

**Catcheside PS, Vonow HP**, Catcheside DEA (2014). Iconic Kangaroo Island fungi [poster]. *Friends of Parks Forum*, Kingscote, Kangaroo Island, 10-12 May 2014.

Collier CJ, McKenzie LJ, Takahashi M, **Waycott M** (2013). Light thresholds derived from seagrass loss: an update from the Great Barrier Reef. *22nd biennial conference of the Coastal and Estuarine Research Federation*, San Diego, USA, 3-7 Nov. 2013.

**Conran JG**, Lee DE, Bannister JM, Mildenhall DC (2014). Southern New Zealand at the Oligocene-Miocene boundary: floristic and palaeoecological characterisation of Foulden Maar. *It's All About the Plants*, State Herbarium of South Australia, Adelaide, 4 Feb. 2014.

Devlin, MJ, Collier C, McKenzie L, Petus C, **Waycott M** (2013). Large scale water quality impacts on seagrass communities in the Great Barrier Reef. *22nd biennial conference of the Coastal and Estuarine Research Federation*, San Diego, USA, 3-7 Nov. 2013.

**Duval D** (2014). Plant collections from the APY Lands and NW Region. *It's all about the plants*, State Herbarium, 18 May 2014.

**Duval D** (2014). Update from the SA Seed Bank. *Friends of the Botanic Gardens*, Noel Lothian Hall, 6 May 2014.

**Forbes SJ** (2014). Plant a Seed: Santos for the Environment. *Santos*, Adelaide, 27 May 2014

Furman BT, Jackson LJ, Bricker E, **Waycott M**, Peterson BJ (2013). The interactive effects of pollination and seed dispersal distance on the dynamics of sexual recruitment in an establishment phase *Zostera marina* meadow, Shinnecock Bay, NY. *22nd biennial conference of the Coastal and Estuarine Research Federation*. San Diego, USA, 3-7 Nov. 2013.

**Guerin J** (2013). Germination of *Veronica parnkalliana* seeds in response to season and fire cues. *5th Global Botanic Gardens Congress*, Dunedin, 20-25 Oct. 2013.

**Guerin J** (2013). SA Seed Bank. *USA Bridgewater Group AGM*, Oct. 2013.

**Guerin J** (2014). Seed viability. *Murray Local Action Planning Group*, KESAB, Flinders Park, 20 June 2014.

**Kanellos T** (2014). 'Imitation of Life' [awarded best book at the 'Museums Australia Publication Design Awards']. *Museums Australia National Conference*, Launceston, 16-19 May 2014.

**Kellermann J, Lang PJ, Waycott M** (2013). To the hilt: tackling flora lists for Hiltaba Station and Gawler Ranges National Parks. *Bush Blitz Symposium*, Canberra, 30 July 2013.

Lorbeer AJ, Lahnstein J, Fincher GB, **Gurgel CFD**, Su P, Zhang W (2014). Monosaccharide analysis of selected South Australian seaweeds to screen for valuable carbohydrates. *5th Congress of the International Society for Applied Phycology (ISAP)*, Sydney, 22-27 June 2014.

Marques I, Les DH, Macfarlane TD, **Conran JG**, Rudall PJ, Logacheva M, Sokoloff DD, Remizowa MV, Graham SW (2014). The root of the flowering plants, re-re-revisited. *Evolution 2014*, Raleigh Convention Center, Raleigh, NC, 20-24 June 2014.

McKenzie LJ, Collier C, **Waycott M**, Unsworth R, Coles R, Yoshida R, Smith N (2013). Monitoring inshore seagrasses of the Great Barrier Reef: resistance and recovery in response to water quality and extreme weather events. *22nd biennial conference of the Coastal and Estuarine Research Federation*, San Diego, USA, 3-7 Nov. 2013.

O'Brien KR, **Waycott M**, Kendrick G, Ferguson A, Maxwell P, Scanes P, McKenzie L, Udy J, Kilminster K, McMahon K, Samper-Villarreal J, Dennison WC (2013). Three critical scales to manage for seagrass resilience: physiology, morphology and landscape. *22nd biennial conference of the Coastal and Estuarine Research Federation*, San Diego, USA, 3-7 Nov. 2013.

**O'Leary M** (2014). Masterclass on rare plants and herbaria for students. *Mylor Primary School*, Mylor, 8 Apr. 2014.

**Pitman S** (2013). From grey to green: life support for human habitats. The evidence base for green infrastructure. *United Nations Economic and Social Commission for Asia and the Pacific (ESCAP)* [invited speaker], Bangkok, Thailand, July 2013.

**Pitman S** (2013). Gardens and Wildfire. *The Australian Centre for Horticultural Excellence (TACHE)* Masterclass, Adelaide, Nov. 2013.

**Pitman S** (2014). From grey to green: life support for human habitats. The evidence base for green infrastructure. *University of South Australia*, Lecture to Advanced Geographic Information masters students, Adelaide, Mar. 2014.

**Pitman S** (2014). From grey to green: life support for human habitats. The evidence base for green infrastructure. *University of Adelaide*, Lecture to final year Architecture and Landscape Architecture students, Adelaide, Mar. 2014.

**Pitman S** (2013). Sustainable Gardens. *Unley High School*, year 10 students, Adelaide, Oct. 2013.

**Pitman S** (2013). From grey to green: life support for human habitats. The evidence base for green infrastructure. *TREENET Symposium* [invited speaker], Adelaide, 4-5 Sep. 2013

**Pitman S** (2013). From grey to green: life support for human habitats. The evidence base for green infrastructure. *Greenhouse 2013: the Science of Climate Change* [invited speaker], Adelaide, 8-11 Oct. 2013

Reichgelt T, Lee DE, **Conran JG**, Kennedy EM, Mildenhall DC, Raine JI (2014) The endemic floras of Zealandia: key components of the Cretaceous–Paleogene Gondwana expressway. *10th North American Paleontological Convention, Hilton University of Florida Conference Center*, Gainesville, FL, USA, 15-18 Feb. 2014.

Soisup N, Lowe A, **Gurgel CFD**. (2013). Unveiling *Lobophora* (Dictyotales, Phaeophyceae) species diversity in Australia based on *rbcl* and *cox1* DNA sequence analyses. *10th International Phycological Congress*, Orlando FL, USA, 5-10 Aug. 2013.

**Thorpe M** (2013). Seed Banks: A Safeguard for the Future. *Friends of Barossa Bush Gardens*, Barossa Council Chambers, 17 Sep. 2013.

Van Dijk K, **Waycott M**, **Cross H**, Smitheram B, Lemson, K, Koenders A, McMahon K, **Calladine A** (2013). Next-generation sequencing advances for seagrass barcoding. *22nd biennial conference of the Coastal and Estuarine Research Federation*. San Diego, USA, 3-7 Nov. 2013.

**Waters LJ** (2013). Jessie Hussey. *Science as a human endeavour* [invited seminar to primary school teachers], Flinders Centre for Science Education in the 21st Century (Science 21), Adelaide, 24 Mar. 2014.

**Waycott M**, (2014). Plant systematics and evolution. Lecture series given to University of Adelaide students studying evolutionary biology including visits to the herbarium.

Wiltshire KH, **Gurgel CFD**, Deveney MR, Tanner JE (2014). Selecting Southern Australian Rhodophyta for Aquaculture. *World Aquaculture Conference*, Adelaide, 7-11 June 2014.

Wiltshire KH, **Gurgel CFD**, Deveney MR, Tanner JE (2014). Selecting Southern Australian Rhodophyta for Aquaculture. *5th Congress of the International Society for Applied Phycology (ISAP)*, Sydney, 22-27 June 2014.

Wiltshire KH, Deveney MR, Tanner JE, **Gurgel CFD** (2013). Investigating native Rhodophyta species for potential use in Integrated Multi-Trophic Aquaculture in southern Australia. *21st International Seaweed Symposium*, Bali, Indonesia, 24-26 Apr. 2014.



## Appendix 3 | Conferences and Workshops

*Shaping the future Gold Coast: golden jubilee conference of the Australian Marine Sciences Association*, Gold Coast, 7-11 July 2013. — Waycott M.

*Joint meeting of the Australasian Mycological Society and the Australian Society for Microbiology*, Adelaide, 10-12 July 2013. — Catcheside PS.

*Bush Blitz Symposium*, Old Government House, Canberra, 30 July 2013. — Kellermann J, Vonow HP.

*Bush Blitz 2 Planning Workshop, Australian National Botanical Garden*, Canberra 31 July 2013. — Vonow HP.

*10th International Phycological Congress*, Orlando FL, USA, 5-10 Aug. 2013. — Gurgel CFD.

*5th Global Botanic Gardens Congress*, 20-25 Oct. 2013, Dunedin. — Guerin J.

*Managers of Australasian Herbarium Collections (MAHC) annual meeting*, National Herbarium of New South Wales, Royal Botanic Gardens, Sydney, 28-30 Oct 2013. — Vonow HP.

*22nd biennial conference of the Coastal and Estuarine Research Federation*, San Diego, USA, 3-7 Nov. 2013. — Waycott M, Calladine A.

*Systematics without Borders: joint conference of the Australasian Systematic Botany Society, Society of Australian Systematic Biologists and Invertebrate Biodiversity and Conservation*, Sydney, 1-6 Dec. 2013. — Barker WR, Barker RM.

*SA NRM Science Conference, Adelaide University*, 15-16 Apr. 2014. — Barker WR, Barker RM, Ramsay A, O'Leary M, Vonow HP, Waters LJ, Waycott M.

*Australasian Mycological Society Scientific Meeting*, Brisbane, 22-23 April 2014. — Catcheside PS.

*21st International Seaweed Symposium*, Bali, Indonesia, 24-26 Apr. 2014. — Gurgel CFD.

*Queensland Fungi Festival*, Brisbane, 24-27 April 2014. — Catcheside PS.

*4th South Australian Weeds Conference*, Plant Research Centre, Waite Campus, Adelaide, 6-7 May 2014. — Brodie CJ, Kellermann J, Vonow, HP.

*Friends of Parks Forum*, Kingscote, Kangaroo Island, 10-12 May 2014. — Catcheside PS.

*Museums Australia National Conference*, Launceston, 16-19 May 2014. — Kanellos T.

*United Nations Economic and Social Commission for Asia and the Pacific (ESCAP) meeting*, Bangkok, Thailand, July 2013. — Pitman S.

*TREENET Symposium*, Adelaide, South Australia, 4-5 Sep. 2013. — Pitman S.

*Greenhouse 2013: the Science of Climate Change*, Adelaide, South Australia, 8-11 Oct. 2013. — Pitman S.

## Appendix 4 | Research Collaborations

Adelaide Fungal Studies Group (Mrs Pam Catcheside: Collection of macrofungi, education, training).

Australian Plant Census (APC) network of contributors (Mrs Robyn Barker, Drs Peter Lang and Jürgen Kellermann). APC is a database of the accepted scientific names for the Australian vascular flora, both native and introduced, and lists synonyms and misapplications for these names. Taxonomy and nomenclature needs to meet international standards and may require original research or correspondence with appropriate experts.

Dr Mike Bayly and Catherine Clowes, The University of Melbourne (Dr Jürgen Kellermann: Revision of the *Spyridium parvifolium* complex).

Dr Edward Biffin, The University of Adelaide (Dr Peter Lang: Molecular phylogeny of *Goodenia* sect. *Goodenia*; Drs Hugh Cross and Peter Lang: DNA sequencing in Fabaceae; Prof Michelle Waycott molecular evolution, systematics and taxonomy of Australian flora).

Dr Eric Bricker, Environmental Sciences, University of Virginia, USA (Prof. Michelle Waycott: systematics, evolution and population genetics of marine plants).

Mr Perry Brampton, City of Playford, Mr David Brown, One Part Sunshine, Mr Scott Douglas, City of Unley, Mr Geoffrey Fuller & Mr Grant Dalwood, Nursery & Garden Industry of South Australia, Mr Tim Johnson, City of Mitcham, Mr Shaun Kennedy, SA Water, Mr David Lawry & Mr Glenn Williams, TREENET, Mr Ben Seamarks, Project Green, Mr Mark Thomas, Gondwana Landscapes (Ms Sheryn Pitman, Ms Marilyn Kuchel, Mr Cliff Sawtell: *Plant Selector+*, development of web-based plant selection resource for urban environments in South Australia).

Dr Mike Bunce, Murdoch University (Dr Hugh Cross: Camel diet study, ancient DNA of south-west WA caves; Prof. Michelle Waycott: ancient DNA).

Dr Dylan Burge, University of British Columbia, Canada (Dr Bill Barker: Evolution of Celastraceae subfam. Stackhousioideae; Dr Jürgen Kellermann: North American Rhamnaceae, *Ceanothus*).

Dr Tim Carruthers, Secretariat of the Pacific Regional Environment Program (Prof. Michelle Waycott: Science synthesis and communication; seagrass biology, global trends).

AProf Phill Cassey, The University of Adelaide (Prof. Michelle Waycott: Biosecurity and weeds tracking).

Prof. David Catcheside, Flinders University and Dr Teresa Lebel, National Herbarium of Victoria, Royal Botanic Gardens Melbourne (Pam Catcheside: the genus *Plicaria* in Australia).

Prof. David Catcheside, Flinders University. (Pam Catcheside: Antibiotics from fungi).

Prof. Mark Chase, RBG Kew, UK (Dr John Conran; Monocot and *Nicotiana* research).

Dr Maarten Christenhusz, RBG Kew, UK (Dr John Conran; Monocot and Nicotiana research).

Dr Catherine Collier, James Cook University (Prof. Michelle Waycott: Marine monitoring, seagrass adaptations to survival, environmental drivers of ecological change).

Prof. Sean Connell, The University of Adelaide, Dr Joe Zucarello, Wellington University, NZ, Prof. John West, The University of Melbourne, Prof. Jonathan Waters, Otago University, NZ, Drs Thomas Wernber and Mads Thomsen, Edith Cowan University (Dr Fred Gurgel: ARC-NZ Research Network on marine plant phylogeography along Australia-NZ temperate coasts).

Dr John Conran, The University of Adelaide (Prof Michelle Waycott, Systematics of *Patersonia*, *Cassutha*, evolutionary genetics of *Cephalotus*, *Drosera*).

Prof. Darren Crane, James Cook University NZ (Dr John Conran; Elaeocarpaceae and Cunoniaceae palaeobotany).

Prof. Bill Dennison, Integration Application Network, University of Maryland Center for Environmental Science, USA (Prof. Michelle Waycott: Science synthesis and communication; seagrass biology, global trends).

Mr Dan Duval, Dr Jenny Guerin, Mr Michael Yeo, Adelaide Botanic Gardens and Mylor Primary School (Mr Martin O'Leary: Seeds project — stewardship of endangered endemic and daimen species; propagation, revegetation and identification of local rare species).

Prof. Suzanne Fredericq, The University of Louisiana, USA and James Norris, Smithsonian Institution, USA (Dr Fred Gurgel: Molecular systematics of selected marine red macroalgae, Rhodophyta)

Dr Matthew Gilliam, Dr Steve Tyerman, ARC Centre of Excellence in Plant Energy Biology School of Agriculture, Food and Wine Waite Research Institute, Prof. DEA Catcheside, Flinders University (Mrs Pam Catcheside: Mycorrhizal fungi).

Prof. Sean Graham, University of British Columbia, Canada (Dr Hugh Cross: Grass and conifer research).

AProf. Sean Graham, University of British Columbia, Canada (Dr John Conran; Hydatellaceae and monocot research).

Dr Adele Harvey, La Trobe University, Melbourne (Dr Fred Gurgel: Systematics of articulated species of Australian Corallinales, Rhodophyta).

Prof. Joe Holtum, James Cook University (Prof Michelle Waycott: systematics of tasselferns in genus *Huperzia*; evolution of plants in arid environments; *Acacia peuce*).

Prof. Gary Kendrick, Oceans Institute, University of Western Australia (Prof. Michelle Waycott: Seagrass genetics, evolution and restoration ecology).

Dr Elizabeth Kennedy, GNS Science, NZ (Dr John Conran; palaeobotany).

Prof. Michael Kiehn, Universität Wien, Austria (Dr Bill Barker: Karyology of Celastraceae subfam. Stackhousioideae).

Dr Annette Koenders, Edith Cowan University (Prof. Michelle Waycott: Seagrass systematics).

Prof. Paul Lavery, Edith Cowan University (Prof. Michelle Waycott: field guide production, seagrass adaptations and environmental drivers of ecological change).

Dr Teresa Lebel, National Herbarium of Victoria, Royal Botanic Gardens Melbourne (Mrs Pam Catcheside: Boletaceous truffles).

Prof. Bill Lee, Landcare NZ and University of Auckland, NZ (Dr John Conran; palaeobotany).

AProf. Daphne Lee, University of Otago, NZ (Dr John Conran; palaeobotany).

Dr Kristina Lemson, Edith Cowan University (Prof. Michelle Waycott: Seagrass systematics).

Prof. Don Les, University of Connecticut, USA (Prof. Michelle Waycott: Systematics and evolution of seagrasses and Alismatales).

Prof. Jie Li, Kunming Chinese Academy of Sciences and Xishaungbanna Tropical Botanic Gardens, Yunnan, China (Dr John Conran; Angiosperm phylogeny).

Dr John Luly, James Cook University (Prof. Michelle Waycott: Systematics and evolution of plants in arid environments; *Acacia peuce*).

Mr Bruce Maslin, Western Australian Herbarium (Mr Martin O'Leary: New species of *Acacia*).

Dr Tom May, National Herbarium of Victoria, Royal Botanic Gardens Melbourne (Mrs Pam Catcheside: Fungimap, mapping and documentation of fungi in Australia; *Fungi down under*, 2nd edition).

Prof. Karen McGlathery, Environmental Sciences, University of Virginia, USA (Prof. Michelle Waycott: Systematics, evolution and population genetics of marine plants).

Mr Len McKenzie, Department of Agriculture Fisheries and Forestry Queensland (Prof. Michelle Waycott: Marine monitoring, seagrass adaptations and environmental drivers of ecological change).

Mrs Regina McKenzie, Viliwarinha Yura Aboriginal Corporation (Flinders Ranges) & Dr Susan Semple, University of South Australia (Mr Martin O'Leary: Medicinal plants project, ecology, revegetation at Yappala)

Dr Kathryn McMahon, Edith Cowan University (Prof. Michelle Waycott: Seagrass systematics, populations genetic diversity, seagrass adaptations and environmental drivers of ecological change, field guide production).

Prof. Diego Medan, Universita de Buenos Aires, Argentina, and Dr Lone Aagesen, Instituto de Botanica Darwinion, Argentina (Dr Jürgen Kellermann: Rhamnaceae morphology; comparison of Australian and South American Rhamnaceae).

Dr Dallas Mildenhall, GNS Science, NZ (Dr John Conran; palaeobotany).

Dr Josephine Milne, National Herbarium of Victoria, Royal Botanic Gardens Melbourne (Mr Graham Bell: *Flora of Australia* treatment of the moss family Pottiaceae).

Prof. Mariana C. de Oliveria and Assoc. Prof. Valéria Cassano, The University of São Paulo, Brazil (Dr Fred Gurgel: Molecular systematics of Brazilian benthic marine red macroalgae, Rhodophyta).

Dr Jane Prider, Biosecurity SA, PIRSA (Dr Bill Barker: review of two naturalized broomrapes).

Dr Laura Reynolds, Rutgers University, USA (Prof. Michelle Waycott: Systematics, evolution and population genetics of marine plants).

Dr Paula Rudall, RBG Kew, UK (Dr John Conran; Hydatellaceae and monocot research).

Dr John Runcie, Aquation Pty. Ltd., Sydney University (Dr Fred Gurgel: Ecophysiology of Australian marine macroalgae).

Dr Brian Saunders, Friends of Coffin Bay National Park (Mrs Pam Catchside: Field guide to the fungi of lower Eyre Peninsula).

Dr Susan Semple, University of South Australia, and Mr David Claudie, Chuulungan Aboriginal Corporation (Cape York) (Mr Martin O'Leary: Kuuku I'yu Northern Kaanju medicinal plants project — plant ecology, identification).

Dr Elizabeth Sinclair, University of Western Australia, Kings Park and Botanic Gardens (Prof. Michelle Waycott: Seagrass genetics, evolution and restoration ecology).

Dr Nick Smith, Nelumbo Botanics (Mr Martin O'Leary: Pilbara Native Plant Book, Greening Australia).

Dr Dmitry Sokloff, Department of Higher Plants, Faculty of Biology, M.V. Lomonosov Moscow State University, Moscow, Russia (Dr John Conran: Hydatellaceae research)

Prof Dennis Stevenson, NY Botanic Gardens, USA (Dr John Conran; Monocot research).

Dr Jason Tanner and Dr Marty Deveney, SARDI Aquatic Sciences (Dr Fred Gurgel: Integrated multi-trophic aquaculture in southern Australia; invasive marine green macroalga *Caulerpa taxifolia*).

Drs Jennifer Tate and Cynthia Skema, Massey University, NZ, Dr Barbara Ambrose, New York Botanic Gardens, and Dr Helal Ansari, AgResearch Ltd, NZ (Dr Bill and Mrs Robyn Barker: Collaboration on Malvaceae, particularly Malveae, in Australia and New Zealand).

Dr Mads Thomsen, The University of Canterbury, New Zealand (Dr Fred Gurgel: Ecological and evolutionary studies of Australian *Caulerpa*, Chlorophyta).

Dr Frank Udovicic and Mr Neville Walsh, National Herbarium of Victoria, and Drs Barbara Rye and Kevin Thiele, Western Australian Herbarium (Dr Jürgen Kellermann: Revision of Rhamnaceae for *Flora of Australia*, *Flora of South Australia* and *Flora of Tasmania*).

Mr Mark Wapstra, ECOtas Environmental Consulting, Tasmania (Dr Bill Barker: new species of *Euphrasia*; Dr Jürgen Kellermann: new species of *Spyridum* in Tasmania).

Assoc. Prof. Thomas Wenberg, The University of West Australia, Perth (Dr Fred Gurgel: Phenology of Australia's temperate marine and climate change).

Dr Angus Wood State Herbarium volunteer (Mr Graham Bell: Morphometric study of *Philonotis tenuis*, Bartramiaceae).

Prof. Wu Ming-Jou, Institute of Plant Biology, National Taiwan University, Taiwan (Dr Bill Barker: *Euphrasia* DNA analysis).

Prof. Yi Ting-Shuang, Kumin Institute of Botany, Chinese Academy of Science, China, and Prof. Doug Soltis, University of Florida, USA (Dr Jürgen Kellermann: World-wide phylogeny of Rhamnaceae).

Prof. Jay Zeiman, Environmental Sciences, University of Virginia, USA (Prof. Michelle Waycott: Systematics, evolution and population genetics of marine plants).

## Appendix 5 | Scientific Grants

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### Industry Grants

**Duval D, Coulter M** (2013–2014). South East Natural Resources Management Region: Restoration of the Sand Cave Area at Naracoorte Caves National Park (\$7,500).

**Duval D, Guerin J, Thorpe M** (2013–2014). South Australian Murray Darling Basin Natural Resources Management: Seeds of the Murray Region (\$40,000).

**Duval D, Guerin J, Thorpe M** (2013–2016). Coorong Lower Lakes and Murray Mouth Branch: Seed Germination Research for Rehabilitation (\$120,000).

**Guerin J** (2013–2015). Hillgrove Resources Ltd.: Kanmantoo Restoration Technology Project (\$120,000).

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### Competitive Grants

**Barker WR** (2014–2015). Capacity-Building Grant under Australian Biological Resources Study National Taxonomy Research Grant Program: Taxonomic studies in Australian plant families traditionally placed under Scrophulariaceae s.lat. I. A revision of Phrymaceae (\$5,500).

**Brodie CJ**, and the State Herbarium of South Australia (2011–2012). PIRSA NRM Bio-Security: To survey SA landscape for new and existing weed threats (\$70,000).

**Conran JG**, with Able A, Tengrove C (2013). Interactive e-learning resources for development of diagnostic abilities. University of Adelaide eLearning Development Grant (\$14,847).

**Conran JG**, with Bruhl JJ, Prychid CJ, Smith SY, Collinson ME (2014). UNE University Research Seed Grant: Synchrotron analysis of fossils calibrates molecular phylogeny of mapaniid sedges (\$19,145, \$18,510).

**Conran JG**, with Bruhl JJ, Prychid CJ, Smith SY, Collinson ME (2014). Australian Synchrotron: Synchrotron analysis of plant fossils calibrates molecular phylogeny of monocot mapaniid sedges. (\$60,000, \$60,000).

**Conran JG**, with Lee DE, Mildenhall DC, Lindqvist JK, Crayn DM, Schmidt A (2012–2015). Royal Society of New Zealand, Marsden Grant: Life in and beyond Maars: Origination and diversification of Miocene terrestrial ecosystems in New Zealand (NZ\$767,000).

**Conran JG**, with McInerney FA, Hill RS, Lee DE, Mildenhall D (2013–2015). ARC Discovery Grant: The Eocene high latitude Australasian 'tropics' in a changing climate – clarifying the evidence (\$230,000).

**Duval D**, with Native Vegetation Council (2013–2014). Germination Trials of *Choretrum* species in order to propagate plants for reintroduction in restoration projects (\$21,000).

**Duval D, Guerin J.** (2013–2014). Native Vegetation Council: Ex situ collections of threatened Orchids in the SE Region (\$21,970).

**Guerin J, Duval D, Coulter M, Thorpe M** (2013–2016). Native Vegetation Council: Propagation of Ericaceae species (\$36,000).

**Gurgel CFD**, with Tanner JE (Head CI) and 8 others (2010–2013). Fisheries Research and Development Corporation R&D Grant: Feasibility study for integrated multi-trophic aquaculture in southern Australia (\$1,118,654).

**Gurgel CFD**, Wernberg T (2012–2014). ARC Linkage Grant: Long-term changes in the phenology of Australia's temperate marine macroalgae: has climate change impacted the world's most diverse algal flora? (\$240,000).

**Waycott M** (2013–2015). DEWNR CLLMM research program: The application of genetic analysis for management of natural resources in South Australia (\$91,500).

**Waycott M** (2013–2014). DEWNR Research Partnerships: Seagrasses in South Australia – case study for integrating state-wide systems knowledge (\$40,000).

**Waycott M, Collier C** (2011–2013). NERP GBR Hub: Vulnerability of seagrass habitats in the GBR to flood plume impacts: light, nutrients, salinity (\$300,000).

**Waycott M**, with Collier C, Korjent Van Dijk (2013-2016). Great Barrier Reef Foundation, Climate change resilience of the GBR, developing metrics for seagrasses (\$150,000).

**Waycott M**, McKenzie L (2014–2016). Great Barrier Reef Marine Park Authority – Reef Rescue: Reef Rescue Marine Monitoring Program – inshore seagrass monitoring (\$350,000 pa).

**Waycott M**, Lowe A, with Austin A, Donnellan SC, Cooper A, and 10 others. ARC LIEF Grant LE130100065. Next generation enhancement of the South Australian regional facility for molecular ecology and evolution. (\$370,000). Partner organisations: The University of Adelaide, Flinders University, University of South Australia, South Australian Museum, Botanic Gardens of Adelaide, State Herbarium of South Australia, Australian Wine Research Institute.

**Waycott M**, Van Dijk KJ (2012–2015). Jones Environment Fund: Seagrass evolutionary studies (\$330,000).

## Appendix 6 | Research Students

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### Post doctorate

Dr Kor Jent Van Dijk, The University of Adelaide, State Herbarium of South Australia, The University of Virginia, USA. The evolutionary ecology of seagrasses globally. Supervised by Prof. Michelle Waycott (2012–2015).

Mr Gareth Belton, The University of Adelaide, Molecular evolution of South Australian and marine plants. Supervised by Prof. Michelle Waycott (2014–2015).

Dr Catherine Collier, Senior research fellow, James Cook University. Seagrass management and thresholds application. Supervised by Prof. Michelle Waycott (2012–2015).

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### Ph.D.

Ms Rina Aleman, University of South Australia. Investigating the seed biology and germination requirements of *Brachyscome* species in South Australia. Supervised by Drs Manfred Jusaitis and Phil Ainsley in conjunction with Drs Fleur Tiver, Joan Gibbs and Sophie Petit. (Thesis submitted in Mar. 2014).

Mr Marei Al-Nahdi, University of Adelaide, Metabarcoding approaches to detecting new weed incursions. Supervised by Prof. Michelle Waycott, AProf. Phillip Cassey and Dr Hugh Cross.

Mr Gareth Belton, The University of Adelaide. Phylogeography and the relict species concept of the macroalgal flora of the Great Australian Bight and SA Gulfs. Supervised by Dr Fred Gurgel and Prof Andrew Lowe.

Mr Abdul Razaq Chasani, Charles Darwin University. Molecular Systematics and Phylogeography of Selected Tropical Macroalgae in the Wallacea Region. Co-supervised by Dr Fred Gurgel with Dr Karen Edyvanne.

Mr Tim Croft, University of Adelaide, Historical vegetation modelling and detecting naturalised versus native species in South Australia. Supervised by Prof. Michelle Waycott.

Ms Rainbo Dixon, Murdoch University. Systematics of the genus *Sargassum* (Fucales, Phaeophyta) in Australia. Supervised by Dr Fred Gurgel in conjunction with Dr John Huisman, Murdoch University and Western Australian Herbarium.

Ms Patricia Fuentes-Cross, University of Adelaide. Humans as agents of landscape change in Australia: vegetation turn over and domestication. Supervised by Prof Andrew Lowe in conjunction with Dr Maarten Ryder, CSIRO, Dr Mike Gardner and Prof Michelle Waycott.

Mr William Grant, The University of Adelaide. Phylogeography of invasive species of *Caulerpa* in Australia. Supervised by Dr Fred Gurgel

Mr Nick Kalfas, University of Adelaide. Coevolution of the Albany Pitcher Plant, *Cephalotus follicularis* and the wingless fly, *Badisis ambulans*. Supervised by Dr John Conran and Prof. Michelle Waycott, Dr Kor-jent Van Dijk and Dr Terry Macfarlane (Western Australia Herbarium).

Ms Fran MacGillivray, University of Adelaide. Tracking phenological shifts and evolutionary impacts due to climate change. Supervised by Prof Andrew Lowe and Dr John Conran.

Mrs Made Ni Gari, University of Adelaide. Systematics of *Patersonia*. Supervised by Dr John Conran and Prof Michelle Waycott, and Dr Terry Macfarlane, Western Australia Herbarium.

Ms Nuttanun Soisup, The University of Adelaide. Molecular systematics and phylogeography of selected Australian Phaeophyceae. Supervised by Dr Fred Gurgel and Prof. Andrew Lowe.

Mr William Taylor, University of Adelaide. Ecology, Physiology and Phylogeography of invasive species of *Caulerpa* in Australia. Supervised by Dr Fred Gurgel.

Ms Kathryn Wiltshire, The University of Adelaide. Development of a multitrophic offshore aquaculture system for South Australia. Supervised by Dr Fred Gurgel.



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**M.Sc.**

Ms Khadijah Awang, The University of Adelaide.  
Systematics of *Cassytha*. Supervised by Dr  
John Conran and Prof. Michelle Waycott, The  
University of Adelaide and State Herbarium of  
South Australia.

Mrs Thais Munoz, The University of Adelaide,  
Systematics of tuberous *Drosera*. Supervised by  
Dr John Conran and Prof. Michelle Waycott, The  
University of Adelaide and State Herbarium of  
South Australia.

Mr Duncan Jardine, The University of Adelaide.  
DNA tools to control illegal logging in Africa.  
Supervised by Prof. Andrew Lowe and Dr Hugh  
Cross.

Mr Matthew Pearson, The University of Adelaide.  
Systematics of *Cassytha*. Supervised by Dr John  
Conran, Prof. Michelle Waycott, and A/Prof. José  
Facelli, The University of Adelaide.

Ms Tracey Spokes, The University of Adelaide.  
Phylogeography of selected marine macroalgae  
with emphasis of Australian taxa. Supervised by  
Prof Corey Bradshaw, Dr Fred Gurgel.

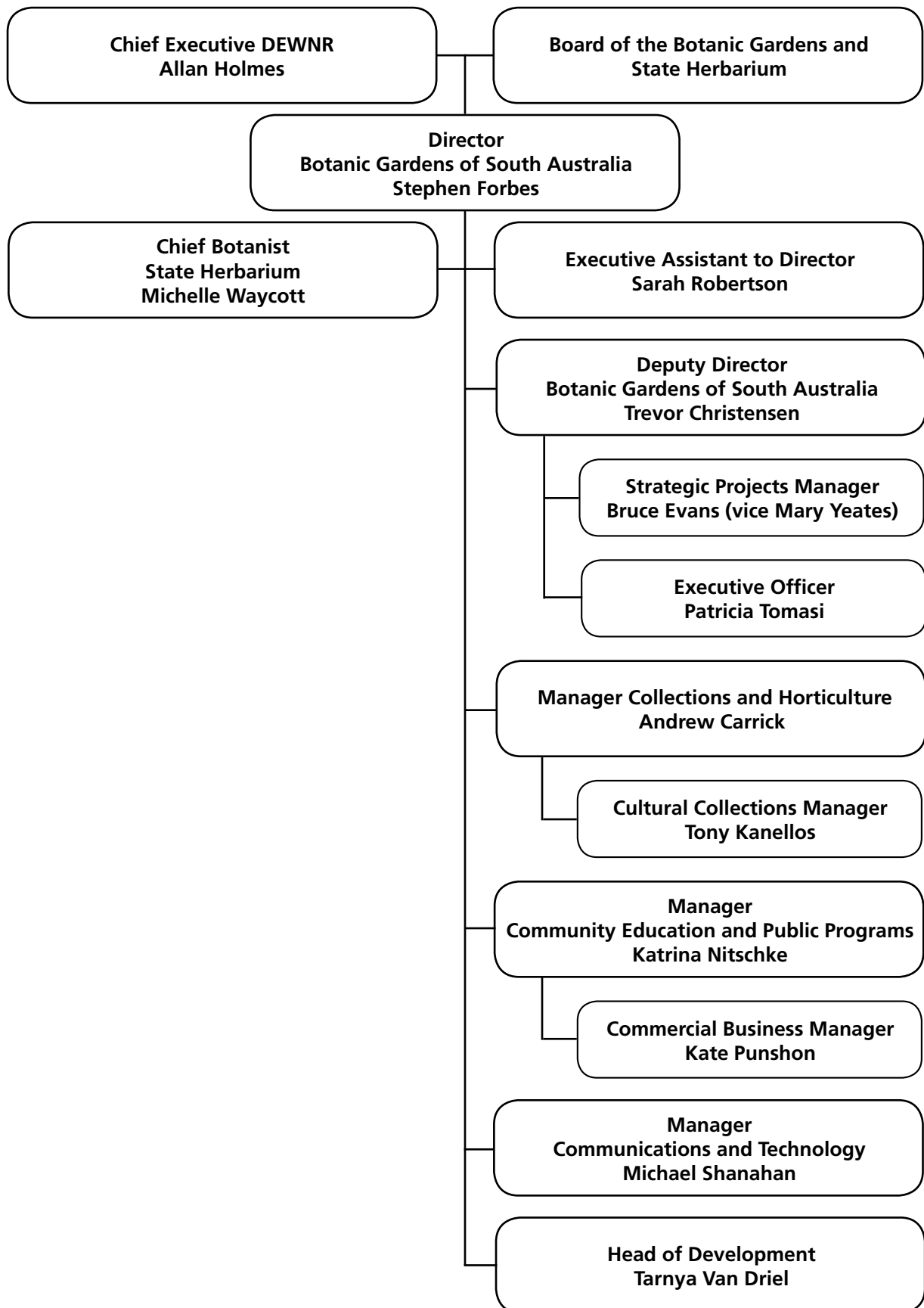
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**B.Sc. (Hons)**

Ms Milena Veiga, University of São Paulo, Brazil.  
Systematics of some new Gracilariaceae from  
Brazil (Gracilariales, Rhodophyta). Supervised by  
Dr Fred Gurgel.

## Appendix 7 | Organisation Chart

Board of the Botanic Gardens and State Herbarium | Reporting Structure  
30 June 2014



## Appendix 8 | Botanic Gardens and State Herbarium Staff List

### Director's Office

Stephen Forbes,  
Director Botanic Gardens and State Herbarium

Anita Baker,  
Personal Assistant to Deputy Director

Helen Bariamis,  
Support Services Officer

Amy Bluck,  
Events Program Coordinator

Pam Bremer,  
Operational Support Officer

Andrew Carrick,  
Manager, Collections & Horticulture, Adelaide,  
Mount Lofty and Wittunga

Tom Chladek,  
Communications Coordinator

Trevor Christensen,  
Deputy Director

Alex Crossman,  
Multimedia Trainee

Fiona Crowe,  
Communications Coordinator

Nicole Dowling,  
Seed Research Assistant

Daniel Duval,  
Senior Seed Collection Officer

Bruce Evans,  
Strategic Projects Manager

Nicky Fidler,  
Collections Policy Officer

Jenny Guerin,  
Seed Research Officer

Sophie Hastwell,  
Communications Coordinator (maternity leave)

Peter Hunt,  
Seed Research Assistant

Manfred Jusaitis,  
Senior Seed Scientist

Tony Kanellos,  
Manager, Cultural Collections

Stephen Kingdon,  
Technical Officer

Adam Lanzafame,  
BG Data Base Project Officer

Katrina Nitschke,  
Manager, Community Education and  
Public Programs

Nadia Parker,  
Events Program Coordinator

Sheryn Pitman,  
Project Officer, Green Infrastructure

Kate Punshon,  
Manager, Commercial Business

Nicole Reynolds,  
Events Program Coordinator

Sarah Robertson,  
Executive Assistant to Executive Director

John Sandham,  
Collections Development Officer

Michael Shanahan,  
Manager, Communications & Technology

Jo Staniforth,  
Project Officer, Community  
Garden Project

Michael Thorpe,  
Seed Bank Curation Officer

Patricia Tomasi,  
Executive Officer

Tarnya Van Driel,  
Head of Development

Morgaine Wallace-Steele,  
Media Communications Coordinator

Lorrae West,  
Librarian

Mary Yeates,  
Strategic Projects Manager

### Adelaide Garden

Stefan Anesbury, Horticultural Trainee

Paul Arbon, Horticultural Curator

Jordan Behrndt, Gardener

Peter Borgelt, Gardener

Peter Bowron, Handyperson

William Brittle, Horticultural Trainee

Darryl Byfield, Gardener

Angus Coulls, Horticultural Trainee

Jessica Harbour, Horticultural Trainee

Andrew Hart, Wetland Horticultural Curator

Laura Harvey, Horticultural Trainee

Stephen Higgins, Senior Gardener

Peter Kannemann, Assistant Gardener

Stuart Maitland, Senior Gardener

Nikko Menzel, Gardener

Nick Milton, Gardener

Jordan Mitsos, Horticultural Trainee

Adam Pannell, Traffic Officer

Robert Roether, Regional Asset Services Office  
Carolyn Sawtell, Horticultural Curator  
Cliff Sawtell, Horticultural Supervisor  
Karen Smith, Horticultural Curator  
Enzo Vidoni, Maintenance Supervisor  
Sharon Wilcox, Gardener  
Ross Williams, Painter  
Paul Winter, Gardener

### **Mount Lofty and Wittunga Gardens**

Tony Anderson, Gardener  
Valdis Balodis, Gardener  
Evan Brougham, Gardener  
Graeme Burdett, Horticultural Curator  
David Cleland, Horticultural Trainee  
Matt Coulter, Horticultural Curator, Plant Propagation  
Mark Devlin, Horticultural Curator  
Lisa Duffy, Gardener  
John Edgar, Gardener  
Scott Foubister, Horticultural Curator  
Kayle Gordon, Horticultural Trainee  
Robert Hatcher, Horticultural Supervisor  
Stephen Havriluk, Senior Maintenance Officer  
John Henson, Horticultural Curator  
Judy Inkster, Horticultural Trainee  
Hugh Matthews, Gardener  
Tina Miljanovic, Horticultural Curator Nursery and Living Collections Support  
Nick Milton, Gardener  
Mark Oborn, Horticultural Supervisor  
Renie Ondo, Gardener  
Cameron Peoples, Gardener  
David Pepper, Maintenance Team Leader  
Flavio Perez, Horticultural Trainee  
David Rice, Maintenance Officer  
Samuel Rose, Horticultural Trainee  
Rory Smith, Horticultural Trainee  
Tim Spurling, Horticultural Trainee  
Dieter Streich, Horticultural Trainee  
Chloe Williams, Horticultural Trainee

### **State Herbarium of South Australia**

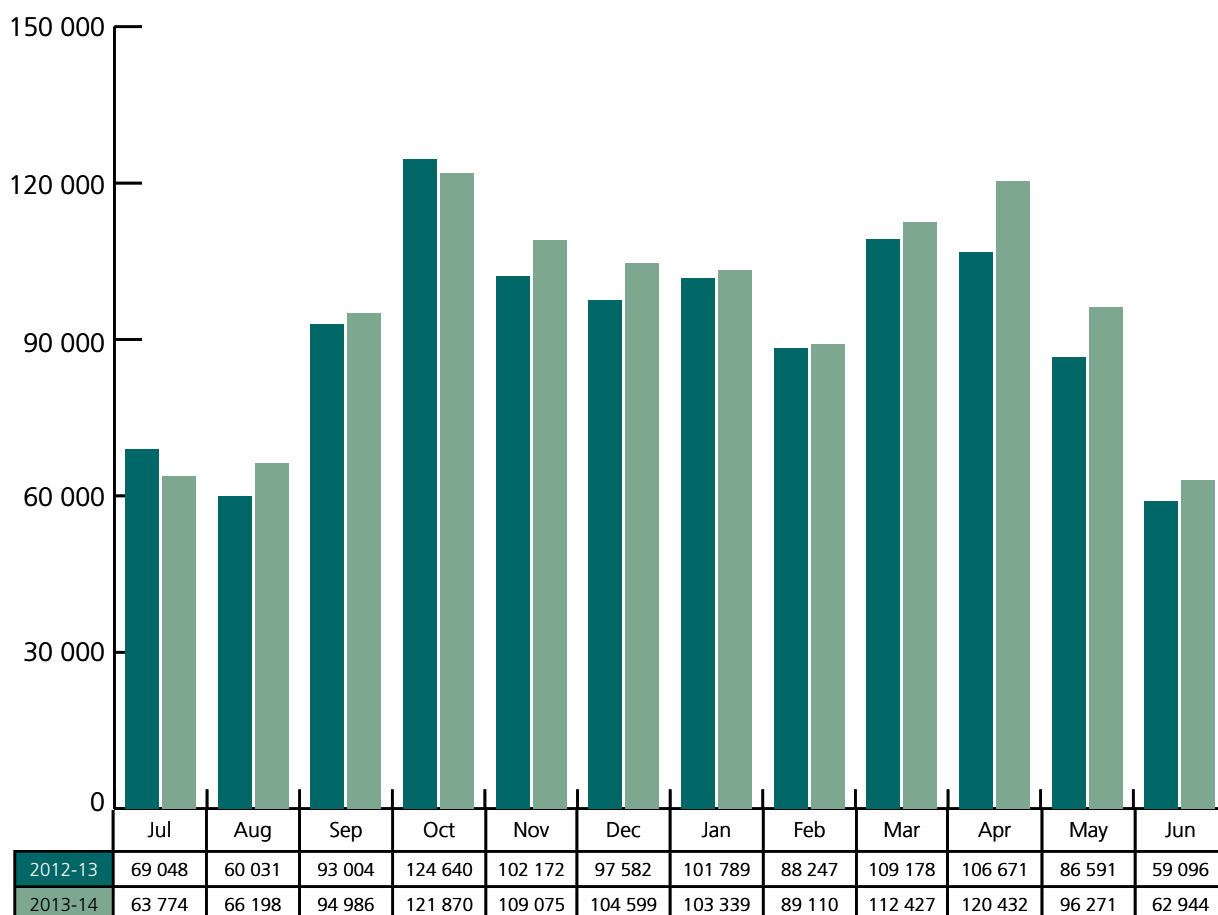
Michelle Waycott,  
Chief Botanist and Head of Herbarium  
Peter Canty,  
Herbarium Manager  
Helen Vonow,  
Collections Manager  
Robyn Barker,  
Honorary Research Associate and Project Officer  
Graham Bell,  
Senior Botanist  
Chris Brodie,  
Weeds Botanist  
Ainsley Calladine,  
Honorary Research Associate and Laboratory Safety Support Officer  
Hugh Cross,  
Molecular Botanist  
Dean Cunningham,  
Technical Officer  
Rachel Gein,  
Technical Support Officer  
Fred Gurgel, Phycologist  
Jürgen Kellerman,  
Senior Botanist  
Peter Lang,  
Senior Botanist  
Martin O'Leary,  
Technical Officer  
Andrea Ramsey,  
Technical Officer  
Carolyn Ricci,  
Technical Officer  
Lisa Waters,  
Technical Support Officer

### **State Herbarium Honorary Research Associates**

Ainsley Calladine  
Robyn Barker  
Bill Barker  
Bob Baldock  
Bob Chinnock  
Fred Gurgel  
Hellmut Toelken  
Laurie Haegi  
Pam Catcheside

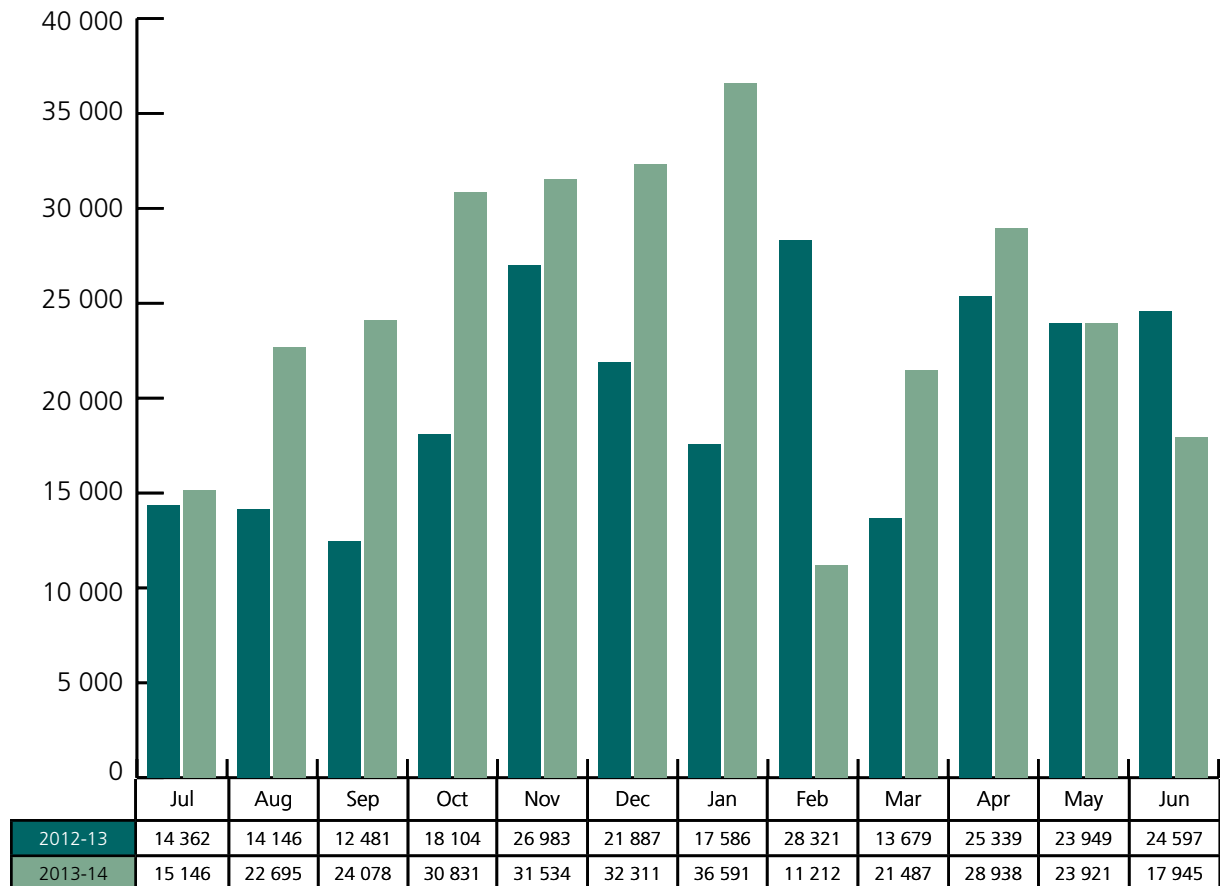
## Appendix 9 | Visitor Numbers

### Adelaide Botanic Garden - Visitor Numbers



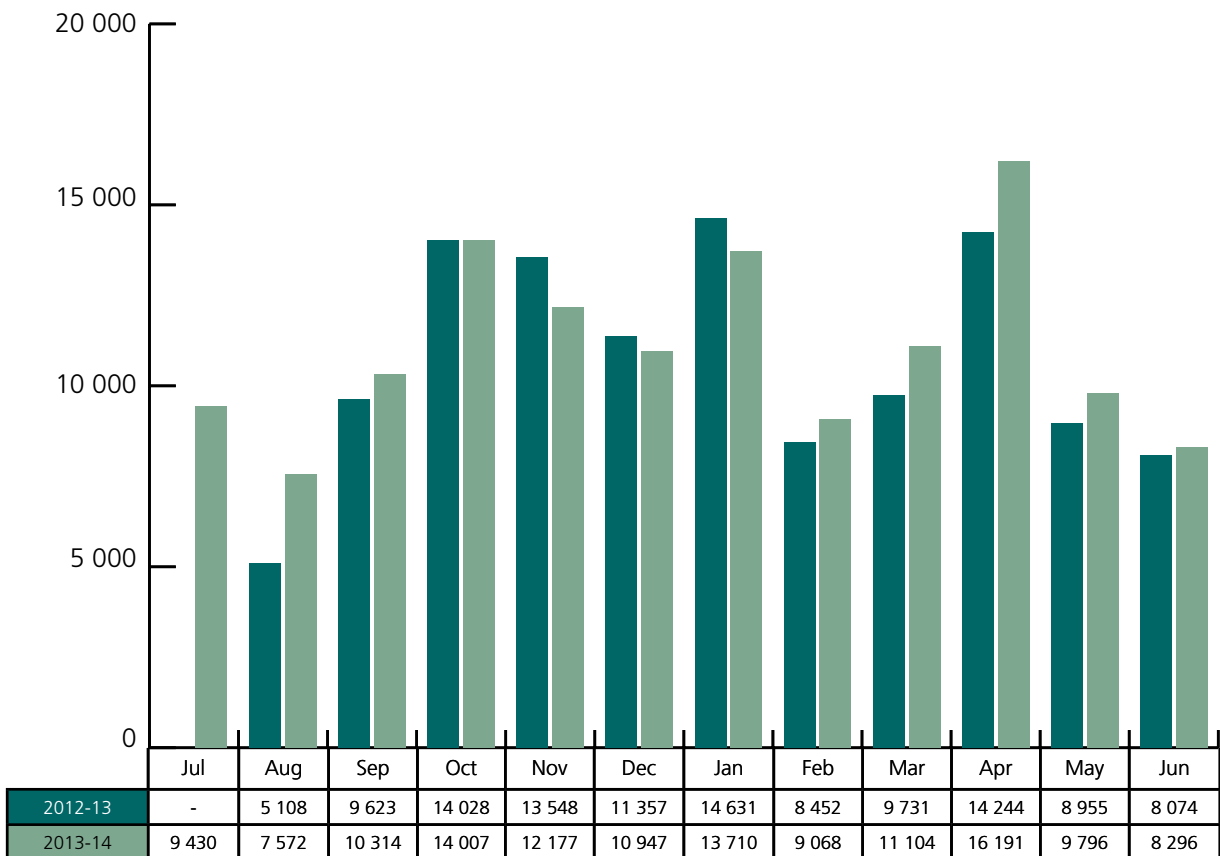
Adelaide Botanic Garden	
1 Jul 2012 to 30 June 2013	1 098 049
1 July 2013 to 30 June 2014	1 145 025

## Botanic Park - Vehicular Attendance



<b>Botanic Park Vehicular Attendance</b>	
1 Jul 2012 to 30 June 2013	241 434
1 July 2013 to 30 June 2014	296 689

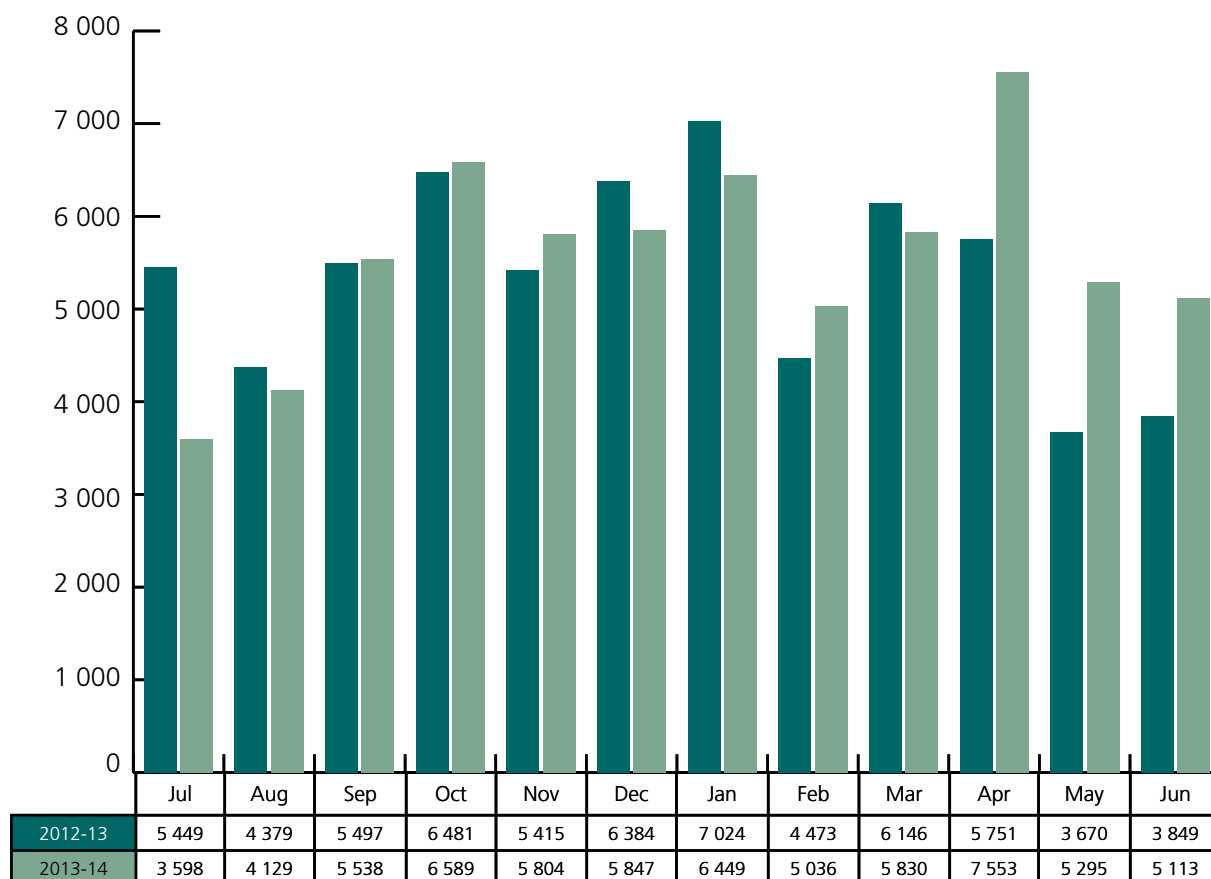
## Bicentennial Conservatory – Visitor Numbers



<b>Bicentennial Conservatory – Visitor Numbers</b>	
1 Jul 2012 to 30 June 2013	117 751
1 July 2013 to 30 June 2014	132 612

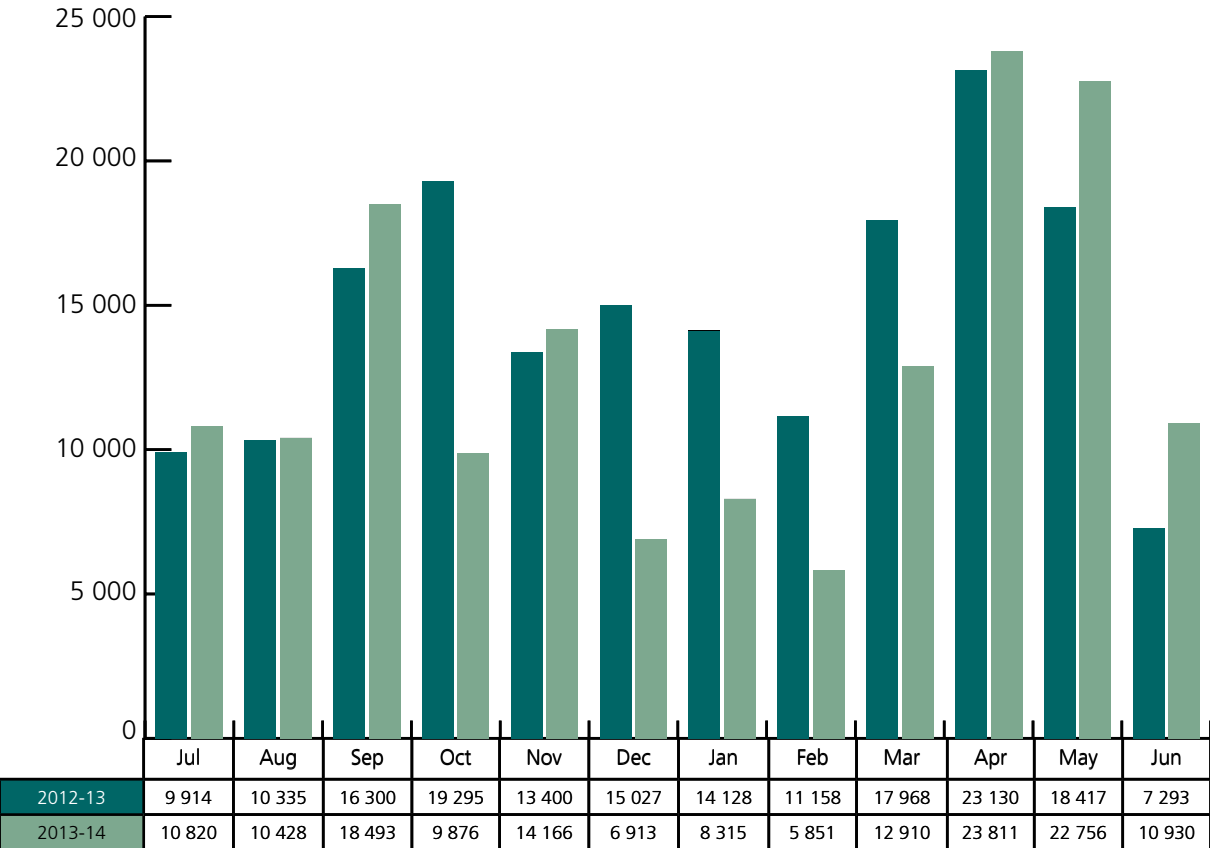


## Santos Museum of Economic Botany – Visitor Numbers



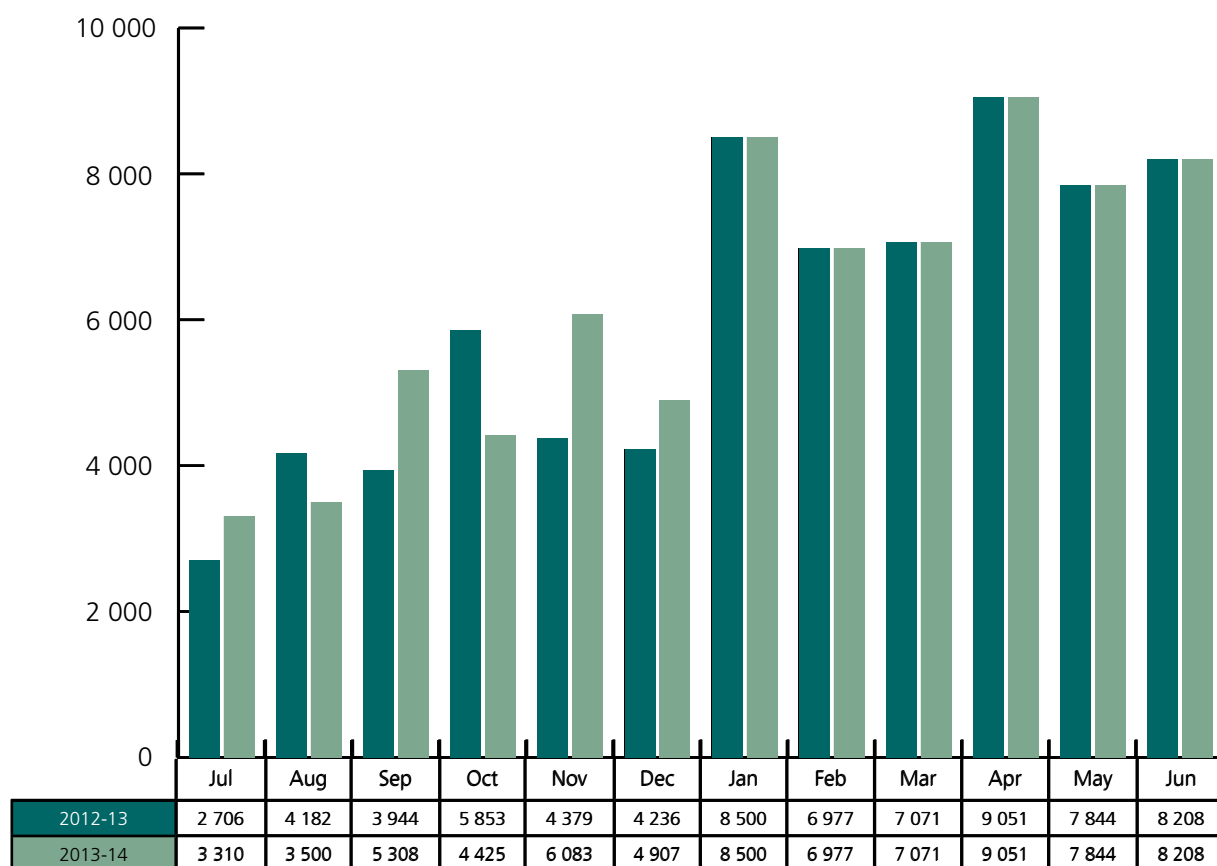
<b>Santos Museum of Economic Botany</b>	
1 Jul 2012 to 30 June 2013	64 518
1 July 2013 to 30 June 2014	66 781

Mount Lofty Botanic Garden – Visitor Numbers



<b>Mount Lofty Botanic Garden</b>	
1 Jul 2012 to 30 June 2013	166 523
1 July 2013 to 30 June 2014	155 269

## Wittunga Botanic Garden – Visitor Numbers



Visitor counters at Wittunga were not operational from January to June 2014. Figures are based on 2013 visitor numbers.

<b>Wittunga Botanic Garden</b>	
1 Jul 2012 to 30 June 2013	72 951
1 July 2013 to 30 June 2014	75 185

## Appendix 10 | Friends of the Botanic Gardens of Adelaide

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### Patrons

His Excellency Rear Admiral Kevin Scarce  
AC CSC RANR Governor of South Australia and  
Mrs Elizabeth Scarce

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### Office Bearers

#### President

Mr Bodo Jensen

#### Immediate Past President

Mrs Helena Jenkinson

#### Treasurer

Mrs Anne Bowman

Secretary: Gillian Simons

### Current Membership: 900

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### Objective

To foster interest in the Botanic Gardens of South Australia and to raise funds which may be used for any purpose which has the approval of the Board as being of benefit to the Botanic Gardens.

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### 2013-14 Program

#### July 2013

Mount Lofty Botanic Garden Plant Sale  
Planet Ark National Tree Day Walks with Garden Guides  
Porcelain Workshop in North Lodge  
Heartland Tours by Garden Guides  
DVD viewing of Around the World in 80 Gardens  
Mexican/Cuba Gardens with morning tea  
Gazette mail-out

#### August 2013

General Meeting  
Mount Lofty Botanic Garden Plant Sale  
Large Format Botanical/Natural History Inspired illustration two day workshop with tutor  
Veronica Oborn  
Prelaunch First Creek Wetland talk and overview with Katrina Nitschke  
Botanical Illustrators walks with Garden Guides  
Lunch at the Simpson Kiosk

#### September 2013

Newsletter mail-out  
Twilight Talk  
Woodturning talk and display by Ron Allen with morning tea  
Mount Lofty Botanic Garden Plant Sale  
Garden Archives exhibition walks by Garden Guides  
Spring Bus Tour to Strathalbyn with lunch

#### October 2013

Wittunga Botanic Garden Plant Sale  
Mount Lofty Botanic Garden Plant Sale  
Realms of Wonder walks by Garden Guides  
Plants from the Pantry walks by Garden Guides  
Gazette mail-out

#### November 2013

Annual General Meeting  
Mount Lofty Botanic Garden Plant Sale  
DVD viewing of South Africa on Kirstenbosch with lunch  
Botanical Art exhibition  
Woodturners exhibition in North Lodge

#### December 2013

Newsletter mail-out  
Christmas Lunch  
Christmas Display North Lodge

#### January 2014

Gazette mail-out

#### February 2014

General Meeting  
Go Behind the Scenes of the ABC visit and lunch  
Beginners watercolour class with tutor  
Cathy Veide  
Tomato Festival walks by Garden Guides

#### March 2014

Newsletter mail-out  
Stall at ABC Gardeners Market  
Palaeo Week walks by Garden Guides  
Mount Lofty Botanic Garden Plant Sale

## April 2014

Twilight Talk with Trevor Nottle, *A Gardener's Miscellany; gardening-writing and travelling, a forty year history of an unexpected life with plants and garden*

Government House Open Day walks  
Mr Badger Wind in the Willows held in North Lodge

Mount Lofty Botanic Garden Plant Sale  
Tasting Australia walks by Garden Guides  
Gazette mail-out  
North Adelaide guided walk and lunch with Glen Woodward  
Two day 'Coloured Pencil – Fairy Wren and Eastern Spinebill' workshop with tutor Janet Matthews

## May 2014

General Meeting  
Mount Lofty Botanic Garden Plant Sale  
History Month walks held in three gardens by Garden Guides  
History Month exhibition in North Lodge  
Friends Quiz Night

## June 2014

Photographic Exhibition held in North Lodge  
Garden Guides participated in World Environment Day  
Newsletter mail-out  
Christie Walk and morning tea  
Two day 'Biro illustration', illustrating plants and natural history subjects, workshop with tutor Nolda Benyon  
Friends Games Day held including Mahjong, Canasta, Bridge, Scrabble  
Mount Lofty Botanic Garden Plant Sale

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### Speakers - General Meetings

## August 2013

Dr Peter Hayman Principal Scientist at the South Australian Research and Development Institute (SARDI).

## November 2013

Chris Daniels, Professor of Urban Ecology in the Division of Information Technology, Engineering and Environment at the University of South Australia.

## February 2014

Daniel Duval, Senior Seed Collection Officer for the Botanic Gardens of South Australia.

Chloe Williams, Gwen Thomas Scholarship recipient.

## April 2014

Clive Blazey, founder and Executive Chairman of The Diggers Club.

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### Speakers - Twilight Talks

## September 2013

Prof Hans Griesser, Medical Uses of Chemicals from *Eremophila* species.

## March 2014

Trevor Nottle - *A Gardener's Miscellany; gardening-writing and travelling, a forty year history of an unexpected life with plants and garden.*

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### Support provided to Botanic Gardens and State Herbarium

#### Financial

Library Archive project, digitalisation of slides	\$35 000
Gwen Thomas Bursary, Horticultural Staff Award	\$4 000
Gift to the Botanic Gardens of South Australia Library	\$5 000
Sponsorship of Botanic Gardens of South Australia Multimedia Trainee	\$32 500
<b>Total</b>	<b>\$76 500</b>

#### Volunteering

Advertising and distribution of Botanic Gardens of South Australia Publications

Self-Guided walks in Adelaide, Mount Lofty and Wittunga Botanic Gardens

World Environment Day volunteers

**Total Volunteer Hours provide by the Friends: 23 305**

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## Friends of the Botanic Gardens of Adelaide Sub-committees

### The Botanic Art Group – 2013-14 Summary of Activities

*Two day workshop, Large Format Botanical/  
Natural History Inspired Illustration*

Date: Sat 3 and Sun 4 August, 2013.

10am – 4pm

Tutor: Veronica Oborn

Cost: \$110 [incl. GST]

*Beginners Watercolour Class*

Date: Sat 15 Feb – Sat 5 April 2014.

9:30am – 11:45am

Tutor: Cathy Veide

Cost: \$75 [incl. GST]

*Two day workshop, Coloured Pencil – Fairy Wren  
and Eastern Spinebill*

Date: Sat 12 and Sun 13 April 2014.

10am – 4pm

Tutor: Janet Matthews

Cost: \$170 [incl GST]

*Two day workshop, 'Biro Illustration'*

Sat 21 and Sun 22 June 2014.

10am – 4pm

Tutor: Nolda Benyon

Cost: \$110 [incl GST]

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## Craft Group

Members meet each month at North Lodge. Handcrafted goods are for sale at the monthly plant sale, events and fundraising raffles.

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## The Friends of the Botanic Gardens of Adelaide Gazette

Published seasonally with articles from staff and Friends the Gazette is a high quality quarterly production publicising events and news from the Botanic Gardens of South Australia and the Friends. A team of volunteers organise distribution to members, staff, media and allied associations in South Australia, interstate and New Zealand.

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## The Growing Group

The Growing Group continued propagating plants in the Mount Lofty Botanic Garden Nursery

with material collected from Adelaide's three botanic gardens. An automatic watering system was installed in 2012 ensuring plants are watered on days of extreme fire danger when access to Mount Lofty Botanic Garden is not possible. The Growing Group meet on Tuesday and Friday mornings.

Plant sales of the propagated material were held on the fourth Sunday of the month from March through to November. Plants were also sold at the ABC Gardeners Market and at the Australian Plants Society Spring Sale. Mount Lofty Botanic Garden plant sales are advertised on the radio and online. The Growing Group also assist the Nursery with weeding and labelling.

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## Community Outreach

A small group of volunteers are available to provide speakers for aged-care facilities, service groups and senior citizen clubs promoting the Botanic Gardens of South Australia, the Friends, and providing an educational experience.

Talks in the last financial year included U3A Noarlunga and Flinders, Probus Clubs, APS Gawler, Orchid Society.

Media coverage has been received through ABC radio, Radio Adelaide, 5AA and The Messenger Newspapers.

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## The Garden Guides

Fiona O'Connor is the Guide Leader.

The Garden Guides 'foster interest in the Gardens' by:

1. Raising community awareness of the scientific, historical and cultural function of the Gardens
2. Educating the public on the importance of plants
3. Encouraging community support for the Gardens

At the beginning of 2013-14 there were 47 members of the Garden Guides. Three Guides resigned and 12 trainees were qualified during the year. Attendance at Garden Guide meetings averaged 42.

Monthly trails were distributed in the three Gardens:

- 7784 are used by the public at Adelaide Botanic Garden
- 3000 are used by the public at Mount Lofty Botanic Garden
- 1500 are used by the public at Wittunga Botanic Garden

The trails are also published on the Friends website. Monthly meetings are held for continuing education of the Guides.

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### **Guest Lecturers for the Garden Guides**

#### **July 2013**

Neville Bonney spoke about the history of food in South Australia, native foods that are available now and their value.

#### **August 2013**

Prof Robert Hill, Goodbye to Eden.

#### **September 2013**

Katrina Nitschke spoke about progress with of the First Creek Wetland, and the rationale of the project.

#### **October 2013**

Darren Ray from the Bureau of Meteorology spoke about factors that impact on South Australia's weather.

#### **November 2013**

Charmaine Power, owner of 'Mostly Books' at Mitcham, spoke about her entry into the world of selling books.

#### **December 2013**

Christmas Lunch

#### **January 2014**

Elizabeth Branford, Counsellor at Seaton High School conducted a voice training coaching session.

#### **February 2014**

Dr Ian Williams, Reptiles of South Australia.

#### **March 2014**

Wendy Trimper, from the Rose Society of South Australia.

#### **April 2014**

Curators from Mount Lofty Botanic Garden spoke about their work.

#### **May 2014**

Sheryn Pitman from the Botanic Gardens of South Australia's Green Infrastructure Project spoke about her her PhD on Ecological Literacy, How much do we know about nature and who knows.

#### **June 2014**

Tony Kanellos, Botanic Gardens of South Australia Cultural Collections Manager, spoke about the history of the papier-maché apple collection in the Santos Museum of Economic Botany.

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### **Guided walks**

Free guided walks were held in **Adelaide Botanic Garden** every day except Christmas Day and Good Friday.

In total 346 walks were held with 17 cancelled due to the heat policy.

There were 2070 visitors in total (South Australia 627, interstate 504, overseas 939).

Free guided walks were held in Mount Lofty Botanic Garden every Thursday, with a total of 50 walks for 121 visitors.

Free guided walks were held in Wittunga Botanic Garden every Tuesday from August through to November. There were a total of 17 walks for 65 visitors.

Booked walks were available for groups of five or more and provided to the following groups -

Mount Lofty Botanic Garden: aged care, Catholic women, U3A, garden clubs, Probus, seniors and community groups.

Wittunga Botanic Garden: U3A, Probus, walking clubs and community groups.

Adelaide Botanic Garden: U3A, gardening clubs, community centres, retirement groups, Church groups, travel tours, the Heart Foundation, international students, Probus, aged care, disability groups, conference groups, Soroptimists, Friends of the Botanic Gardens of Adelaide, car clubs and walking groups.

Booked walks	ABG	MLBG	WBG	Total
Number of walks	67	4	6	77
Total no. Visitors	1039	307	48	1394
Bus Tours MLBG	-	17	-	-

The Garden Guides held nine walks for visitors at the Government House Open Day on November 2013, and nine walks in March 2014. Over one hundred people attended these guided walks on each occasion. Three talks to groups were given by Garden Guides in May and June.

Garden Guides also participated in the opening of the walking season in April 2014, taking more than 40 people on walks from Rymill Park to Adelaide Botanic Garden.

The Garden Guides also took part in World Environment Day and the Opening of First Creek Wetland in Adelaide Botanic Garden.

Guides also furthered their education through five Wednesday excursions.

#### Total Walks and Visitors 1 May 2013 – 30 April 2014

Booked walks	ABG	MLBG	WBG	Total
Total walks (regular, booked and special)	469	61	30	560
<b>Total no. Visitors</b>	<b>3656</b>	<b>520</b>	<b>187</b>	<b>4363</b>

Multiple guides were provided for these walks

Total Visitor numbers for Mount Lofty Botanic Garden includes bus tour visitors.

Self-guided walking trails have been researched and developed on a monthly basis in all three Botanic Gardens.

#### Plant Biodiversity Centre

In the Plant Biodiversity Centre and the State Herbarium Library Friends regularly assisted staff with a diversity of tasks including the preparation of specimens for mounting, plant identification, checking incoming exchange or large loans, upgrading collections, data input and sorting of miscellaneous material. Work is continuing to incorporate hundreds of photographs into the Library Archives. A grant of \$35 000 from the Friends has assisted staff with the digitisation of approximately 9 500 slides taken by former Director Noel Lothian and donated to the Gardens by the late Mrs. Viv Lothian.

#### Visitor Information Centre

The Friends have taken over management of the Visitor Information Centre (VIC).

Friends who volunteer in the Schomburgk Pavilion Visitor Centre provide valuable information for visitors to the Botanic Gardens.

The percentage of volunteer attendance has risen since the Friends have taken over the VIC.

#### Visitor Information Centre 2014

Month	% time attended	People helped	Comment	Shifts occupied
Jan 2014	75.81	926	4 days > 40°C	47/62
Feb 2014	89.29	695+	4 days > 40°C	50/56
Mar 2014	93.55	1038	-	58/62
Apr 2014	91.67	827	-	55/60
May 2014	98.39	804	-	61/62
Jun 2014	96.69	549	-	58/60



<b>Special Walks 2013-14</b>	<b>ABG</b>	<b>MLBG</b>	<b>WBG</b>	<b>Total</b>
<b>History Week May 2013</b>				
No of Walks	8	7	7	22
No of visitors	60	92	62	214
<b>30 Years of Guiding June 2013</b>				
No of Walks	6	-	-	6
No of Visitors	79	-	-	79
<b>Planet Ark Tree Day July 2013</b>				
No of Visitors	50	-	12	62
<b>Heartland tours July 2013</b>				
No of Walks	4	-	-	4
No of Visitors	75	-	-	75
<b>Botanical Illustrators August 2013</b>				
No of Walks	8	-	-	8
No of Visitors	61	-	-	61
<b>Garden Archive Exhibition September 2013</b>				
No of Walks	5	-	-	5
No of Visitors	22	-	-	22
<b>Plants from the pantry October 2013</b>				
No of Walks	4	-	-	4
No of Visitors	4	-	-	17
<b>Realms of Wonder October 2013</b>				
No of Walks	8	-	-	8
No of Visitors	70	-	-	70
<b>Tomato Festival February 2014</b>				
No of Walks	4	-	-	4
No of Visitors	48	-	-	48
<b>Tasting Australia April 2014</b>				
No of Walks	9	-	-	65
No of Visitors	9	-	-	65
<b>Total no of Special Walks</b>				
No of Walks	56	7	7	70
No of Visitors	547	92	74	713

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### **North Lodge Sub-committee**

North Lodge houses the Friends' book collection and Guides' resource material. North Lodge hosted a wide range of exhibitions and workshops for Friends and visitors to Adelaide Botanic Garden.

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### **Community Events**

This group coordinates the Friends' attendance at garden shows such as the Stirling Autumn Fair, Hills Garden and Environmental Expo, ABC Gardener's Markets and Herb Day.

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### **Santos Museum of Economic Botany**

Several Friends volunteer in the Santos Museum of Economic Botany enabling it to remain open seven days a week.

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### **Hands on Hort**

Hands on Hort is a volunteer gardening program at Wittunga Botanic Garden. The six volunteers who meet every week spend most of their time in the Wittunga House grounds but also facilitate hand-weeding, planting and dead-heading in Wittunga Botanic Garden.

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## Workshops

The Mahjong Group meets on Mondays in North Lodge.

Two book clubs are hosted in North Lodge, with books supplied by the City Library.

The Knit and Stitch Group meet on Fridays in North Lodge.

The Sketch Club meets fortnightly in North Lodge to sketch botanical subjects.

The Craft group and Botanists of Field Naturalist meet monthly.

Volunteers hold quarterly meetings

The Friends aim to have North Lodge open for members and visitors every day.

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## Other Volunteer Roles by the Friends

The Friends were represented on the Wittunga Botanic Garden Master Plan reference group by President Bodo Jensen. Friends attended the Mount Lofty Botanic Garden Blitz in Spring and Autumn and assisted with the Botanic Gardens of South Australia annual Visitor Survey.

The President and representatives of the Friends met regularly with the Minister for Sustainability, Environment and Conservation and his staff to provide updates on Friends' and Botanic Garden activities. The President is also a member of the Adelaide Botanic Gardens Foundation.

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## Publications and Presentations

- Self-guided walk pamphlets are free for visitors to all three Gardens
- Guided walks brochures revised
- Radio and television presentations promoting Gardens and Friends activities
- Website redesigned with continually updated information
- A colour brochure of birds found in Adelaide Botanic Garden developed
- Gazette printed four times per year
- Newsletter printed four times per year
- Calendar and Christmas cards showcasing photos of the Botanic Gardens developed.
- A recipe book was printed using Friends' recipes and line-drawings by the Botanical Art Group

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## Affiliations

Australian Guide Secretariat, Garden Clubs of Australia, Association Management – Not for Profit Sector and the Association of the Friends of the Botanic Gardens of Australia.

The Friends President is a full member of the Adelaide Botanic Gardens Foundation.

Our gratitude is expressed to the Board of the Botanic Gardens and State Herbarium for providing the use of North Lodge, Nursery space in Mount Lofty Botanic Garden, an office, and lecture room facilities in the Goodman Building and Noel Lothian Hall. Without these our volunteer activities would be reduced considerably. The commitment made by the Director of the Botanic Gardens and State Herbarium in attending Friends committee meetings is particularly valuable. It is acknowledged that the money raised and volunteer hours given by the Friends could not be achieved without the generous support of Botanic Gardens and State Herbarium staff.

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**Government  
of South Australia**

Department of Environment,  
Water and Natural Resources

Board of the  
Botanic Gardens and  
State Herbarium

