

Board of the Botanic Gardens and State Herbarium
Annual Report 2015-16



Connecting people to plants

2015-16 Annual Report of the Board of the Botanic Gardens and State Herbarium



Above (l-r): The Bicentennial Conservatory in Adelaide Botanic Garden, Autumn colours in Mount Lofty Botanic Garden and Wittunga Botanic Garden in Summer.

Front cover: Detail in the *Amorphophallus titanum* (Titan Arum), which flowered in Mount Lofty Botanic Garden in December 2015.

Board of the Botanic Gardens and State Herbarium

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14 September 2016



Government
of South Australia

Department of Environment,
Water and Natural Resources

Board of the
Botanic Gardens and
State Herbarium



Contents

Letter of Transmittal	1
Presiding Member's Foreword	2
Acting Director's Report	5
The Botanic Gardens and State Herbarium	8
Plans and Objectives	9
The Board's Strategic Plan 2012-17	9
Contribution to South Australia's Strategic Plan 2011	10
Highlights, operations and initiatives	12
The year in review	12
Role, Legislation and Structure	48
Object of the <i>Botanic Gardens and State Herbarium Act 1978</i>	48
Role of the Board of the Botanic Gardens and State Herbarium	48
Functions of the Board of the Botanic Gardens and State Herbarium	48
Membership	49
Meetings: General and Special	49
Governance Arrangements	49
Management of Human Resources	49
Contractual Arrangements	50
Fraud	50
Consultants	50
Overseas Travel	50
Asbestos Management in Government Buildings	50
Urban Design Charter	50
Freedom of Information Statements	50
Whistleblowers Protection Act 1993	50
Regional Impact Assessment Statements	51
Reconciliation Statement	51
Acknowledgements	51
Financial Report	51
Annual Financial Statements for the year ended 30 June 2016	52
Appendices	80
Appendix 1 Publications	81
Appendix 2 Presentations	87
Appendix 3 Conferences and Workshops	90
Appendix 4 Research Collaborations	91
Appendix 5 Scientific Grants	93
Appendix 6 Research Students	94
Appendix 7 Organisation Chart	95
Appendix 8 Botanic Gardens and State Herbarium Staff List	96
Appendix 9 Visitor Numbers	98
Appendix 10 Additional comments on the Annual Financial Statements	104
Appendix 11 Friends of the Botanic Gardens of Adelaide	105

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Letter of Transmittal



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

Board of the
Botanic Gardens and
State Herbarium



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14 September 2016

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 2016.

Yours sincerely

A handwritten signature in cursive script, appearing to read 'Judy P. Potter'.

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

Presiding Member's Foreword

The Botanic Gardens and State Herbarium is among South Australia's oldest and most cherished institutions – enjoyed by locals and visitors, not only as a place of peace, beauty and tranquillity but also as an organisation of scientific and cultural integrity. The Gardens and Herbarium are not only museums of plant collections, both living and dead, but as demonstrated by the achievements of this past year, also a place of tremendous vitality and vibrancy made possible by its supporting staff, partner organisations and sponsors.

The depth and breadth of the work conducted within the Gardens and Herbarium is vast and I hope that the following pages will provide a clear insight into our significance and value.

The Adelaide, Mount Lofty and Wittunga Botanic Gardens and Adelaide's Botanic Park provide their visitors with lasting memories, even as the Gardens themselves change constantly with the seasons. People of all ages and from all walks of life visit for many different reasons, with the Gardens attracting 2.669 million people this past year alone. A simple walk through one of the Gardens, on any day of the year, will reveal the diversity of our collections and other treasured cultural assets.

The State Herbarium is a hub of scientific expertise. It is renowned for its trove of knowledge on South Australia's native and naturalised plants, algae, fungi and lichens, and is internationally recognised for its research and advisory role in plant biodiversity and systematics. Meanwhile, the South Australian Seed Conservation Centre safeguards our state's threatened and endangered native plant species for future generations of South Australians.

The effective and efficient management of these invaluable assets poses an array of challenges. I am, however, extremely pleased with how our staff have delivered on the Board's Strategic Plan, the Department of Environment, Water and Natural Resources' Corporate Plan, and the State's Economic Priorities.

In May 2016, Stephen Forbes concluded his term as Director of the Gardens. I take this opportunity to acknowledge his immense contributions over the past 15 years. Stephen's tenure saw a transformation of the Gardens, including the delivery of projects such as the SA Water

Mediterranean Garden, Schomburgk Pavilion, the jewel-like Amazon Waterlily Pavilion, the First Creek Wetland and the Little Sprouts Kitchen Garden. Stephen also led our organisation with a resolute focus on the health and safety of staff. As a result of this effort, the Gardens have achieved the flawless statistic of maintaining zero lost time injuries over the past five years. On behalf of the entire Board, I wish Stephen all the best in his future endeavours.

This past year has seen so many successes and accomplishments that it would be impossible to sum them all up in this short foreword. There have been, however, a few highlights that deserve special attention.

Our success in attracting local, national and international attention over the summer months with the flowering of not one, but two specimens of one of the world's most iconic plants - the Corpse Flower (*Amorphophallus titanum* or Titan Arum) – was a significant highlight. The two flowering events (at Mount Lofty in December and in Adelaide's Bicentennial Conservatory in February) attracted over 16 000 additional visitors to the Gardens and sparked a frenzy on social media, with over three million viewers around the world watching a time-lapse video of the flowerings. Moreover, the two flowerings generated mainstream attention from media outlets from the local Messenger and 891 ABC Adelaide all the way to global giants such as the BBC, ABC America, CNN, and The Guardian, and seemingly everywhere in between.

The construction of the Chris Steele Scott OAM Visitor Pavilion at Mount Lofty Botanic Garden was also significant. This project demonstrated what is possible when enthusiastic members of the community band together to fulfil a common goal. The Board and the Adelaide Botanic Gardens Foundation are grateful to the Mount Lofty Botanic Garden Support Group for its tireless work towards making this project successful, particularly in raising the \$315 000 required in cash and in-kind support to complete the Pavilion. More than 130 donors contributed, and the entire project was completed in less than two years. I thank all the people who supported and made this concept a reality. I was privileged to attend the handover ceremony of what has already become a landmark feature in the Garden.

The Little Sprouts Kitchen Garden Visiting Program has grown from strength to strength. I had the pleasure of co-hosting a special event with our Premier, the Hon Jay Weatherill MP, in November, celebrating the success of the program to date. Over 3600 children and 900 adults participated in the kitchen garden program in its first year, and by all reports, the feedback from teachers and parents has been outstanding. With the South Australian Government's investment of \$1.6 million in the kitchen garden over four years, I look forward to seeing this project grow.

In October 2015, Wittunga Botanic Garden celebrated the 40th Anniversary of its opening to the public. First established as a private home by the English-born estate agent and naturalist Edwin Ashby in 1902, the grounds were initially based on a formal English design. Edwin was passionate about raising public awareness of the beauty and importance of Australian flora, and Edwin's son, Keith, bequeathed Wittunga to the Board in 1965. It was opened to the public as a botanic garden in 1975. To celebrate its 40th anniversary, the Gardens presented a free community event attended by more than 3000 people, which included food by the mobile food stall collective *Fork on the Road*, music from the Band of the SA Police, and a host of other activities for people of all ages.

2017 will mark the 40th birthday of Mount Lofty Botanic Garden, and we look forward to celebrating this milestone with the community next year.

The calibre and breadth of the State Herbarium and Botanic Gardens' research activities were exemplified by a symposium held during the Natural Resources Management Science Conference in April 2016, on the theme *Botany 2016 – Past, Present and Future*. This symposium, which included 26 presentations, provided evidence of the excellent work being done by the Herbarium and Gardens staff as well as other South Australian and interstate researchers.

The State Herbarium has continued its tradition of innovation, particularly in the early utilisation of new scientific methods. These include cutting-edge technologies in molecular biology and microscopy to help research diverse botanical disciplines, from how to DNA barcode species

and populations to understanding the dynamics of ecosystems. They are also key partners in the formation of a new molecular genetic facility called the Advanced DNA Identification Forensics Facility, based at the University of Adelaide and Flinders University, which will explore forensic applications to research native plants and weeds.

The South Australian Seed Conservation Centre has continued to protect our state's endangered flora from extinction. The team has again exceeded its projected targets, with the percentage of threatened plant species conserved ex-situ reaching 71% this year (up from 67.5% last year). This important program would not be possible without the generosity of sponsors, donors and supporters. On behalf of the Board, I thank all those who have shown support for the Centre's research and conservation efforts.

This past year has seen several unique and exciting challenges along the boundaries of the Adelaide Botanic Garden including the Government's development of the O-Bahn City Access Project to the east of the Garden, and the upcoming Old Royal Adelaide Hospital site development to the west.

At the time of this writing, the O-Bahn project is already well underway, with work commencing on the Hackney Road entrance to the Garden. The Board and staff have worked closely with the Department of Planning, Transport and Infrastructure (DPTI) to ensure that the project works will have only minimal impact on day-to-day activities in the Garden. This project is also paving the way for a complete redevelopment of the Goodman Building Plaza and car park, improving the visual amenity of the Hackney Road entrance to the Garden with the development of an exciting new purpose-built plaza featuring collections of plants native to South Australia, and newly landscaped car parking highlighting contemporary water-wise rain gardens. The spirit of collaboration between the Board and DPTI on this project has been extremely positive, and I have no doubt it will deliver an outcome of benefit to all South Australians.

The significant redevelopment of the Old Royal Adelaide Hospital site will also have a profound impact on the Adelaide Botanic Garden over the coming years, and decisions made with regard

to this site will leave a lasting legacy for future generations. The Board is actively involved in discussions with Renewal SA and other key stakeholders in this redevelopment to ensure the full potential of the site is realised. Cognisant of the need to consider the commercial, cultural and scientific opportunities involved, the Board is being proactive to ensure that the finished development will complement the Garden and its collections.

I have also enjoyed working with our commercial partners over the past year. I congratulate WOMADelaide on its most successful season to date, which saw 90 000 people attending the festival in 2016. I also congratulate Blanco and our award-winning Botanic Gardens Restaurant Chef, Paul Baker, for all of their achievements, particularly for raising the public profile of the restaurant. Paul is a wonderful ambassador for the Gardens, and his 'paddock-to-plate' menus certainly compliment the Board's ethos of 'connecting people to plants.' I would also like to acknowledge our partnerships with The Diggers Club, Moonlight Cinema, Spring Water Beverages Pty Ltd and the National Wine Centre.

I take this opportunity to extend my thanks and sincere appreciation to all who contribute to and support our important work. In particular, the loyalty and dedication of the Friends of the Botanic Gardens of Adelaide is inspiring. Their provision of over 26 000 volunteer hours in the past year demonstrates their true spirit of community, and we recognise and value their hard work. I especially thank the Friends Committee for their exemplary management and Bodo Jensen for his sterling leadership as President.

To our donors, sponsors, stakeholders and corporate partners who contribute to our achievements and successes – thank you. My thanks are also extended to the Adelaide Botanic Gardens Foundation and its Committee, chaired by my Board colleague, David Knox. The Foundation continues to provide support through its fundraising efforts.

I extend sincere gratitude to my fellow Board Members for their leadership, advice and continuing spirit of collaboration.

I also extend my sincere gratitude to the following individuals for their support over the past year: The Hon Ian Hunter MLC, Minister for Sustainability, Environment and Conservation; Sandy Pitcher, Chief Executive of the Department of Environment, Water and Natural Resources (DEWNR); Ben Bruce, Group Executive Director, Customer and Corporate Services, DEWNR; Professor Michelle Waycott, Head of the State Herbarium; and the entire staff of the Botanic Gardens and State Herbarium.

Finally, thank you to Janice Goodwins and Greg Mackie OAM for their outstanding leadership over the past eight months. With the exciting appointment of our new permanent Director in late 2016, we look forward to many more achievements ahead, while ensuring we maintain our lasting commitment to connecting people with plants.

Thank you



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

Acting Director's Report

Having commenced my career at the Adelaide Botanic Garden and State Herbarium, it has been a privilege to return some 15 years later to serve as its Acting Director. Collections-based institutions such as the Gardens and Herbarium play a significant role in determining the cultural and scientific fabric of our state, and I have been delighted to work with South Australia's leaders in the fields of botany, horticulture and science during my time here.

In years to come, I hope history will reflect on this past year as a significant period of revitalisation for the Gardens and Herbarium. It has been a year of important successes, highlights and change. I am pleased to report that the Gardens and Herbarium each achieved all the Board's strategic targets while delivering over and above on the programs and services we offer. These accomplishments would not be possible without the many dedicated and highly skilled teams I have had the pleasure of collaborating with over my short time here. They are as vital and fundamental to our achievements as the collections we maintain.

This report documents the Botanic Gardens and State Herbarium's milestone achievements in the 2015-16 financial year. I take this opportunity to draw attention to a few key areas of activity.

My first official event as Acting Director was at the 40th Birthday Celebration for Wittunga Botanic Garden. What became immediately apparent to me was both the commitment and dedication of the staff and the love of the community for our wonderful Gardens. With over 3000 people joining us to celebrate, this was certainly a milestone event – and it's been so pleasing to see Wittunga's visitation grow this year.

The flowering of the two *Amorphophallus titanum* (Titan Arums or "Corpse Flowers," so named thanks to their rotten stench) in December and February are a testament to the hard work, perseverance and dedication of our staff. From three seeds donated to the Gardens in 2006, nursery staff researched and consulted with Gardens across Australia and overseas for advice on giving this rare and endangered plant an opportunity to thrive in South Australia. The team's knowledge has grown exponentially over the past decade, and they have continued to

record growth rates of the vegetative leaf and other information. In 2013 they set up extensive propagation trials and protocols for the species, with very little published data in existence to assist them. The result of this decade of hard work and innovative propagation is that – aside from our much-publicised achievement in cultivating two flowers in the past year – we now have another seven large plants close to flowering size, and over 100 Titan Arum plants in total. This constitutes one of, if not the, biggest Titan Arum collections in Australia, and quite possibly the world... and all this from three seeds.

The effective use of media, both traditional and "social," is vital for cultural institutions like the Gardens to thrive. The media provides a free public voice for the Gardens and Herbarium to communicate with the public, and this year has seen another steady increase in media mentions across traditional platforms, with an average of 2.4 mentions per day. Social media engagement has also thrived thanks, in large part, to the blooming of the aforementioned smelly flowers! The Gardens' website was also recently redesigned and made 'mobile responsive' following a six-month content renewal process. This has sparked a dramatic increase in traffic, with average weekly page views doubling since the site went live, while total page views jumped 50 per cent in 2015-16 compared to the previous year. We are also attracting significant interstate and international attention.

The autumn colours of our Gardens was another personal standout for me this year. More than 60 000 people visited Mount Lofty Botanic Garden in the month of April 2016 (a record for the Garden) and a Facebook post featuring images of the stunning autumn hues in the Garden reached an organic Facebook audience of 220 000 people in just a few days.

This year also saw an exciting collaboration with the Diggers Garden Club, and Blanco Catering to transform the Schomburgk Pavilion in Adelaide Botanic Garden. Named after the Garden's second director, Dr Richard Schomburgk (1811-1891), the Schomburgk Pavilion is fringed by the Santos Museum of Economic Botany, the Visitor Information Centre/The Diggers Garden Shop and Café Fibonacci. Some exciting new additions to what was previously an underutilised

space have created warmth and vibrancy in an uncharacteristically stark environment for the Garden. Additions have included new outdoor tables and chairs, planter boxes and beds, and some impressive wicking tables featuring edible plants.

I am particularly proud of the achievements of the entire Adelaide Botanic Garden and Herbarium staff in working collaboratively with the Department of Planning and Transport Infrastructure (DPTI) to develop what will become a new shared pathway, an attractive and relevant Goodman plaza, and contemporary landscaped car parking near the Hackney Road entrance into the Garden. The O-Bahn City Access Project builds on the State Government's significant investment in a stronger public transport network. I am extremely pleased with the contribution we've made and look forward to a continued working relationship with DPTI.

This past year has also seen a renewed focus on strengthening our relationships with our neighbours including Zoos SA, Renewal SA in regard to the redevelopment of the old ORAH site, Adelaide City Council, Adelaide Hills Council, National Wine Centre, Nature Play SA, and the Department of Education and Child Development (DECD) in the development of the new STEM School.

Providing education is a very important component of our work at the Gardens. This takes many forms from adult Masterclasses, horticultural trainee programs to school education programs. The Botanic Gardens of South Australia's Education Program attracted more than 17 000 school students this year, with a further 3000 students participating in World Environment Day activities at Adelaide Botanic Garden. This program is vital in connecting school children with high-quality, curriculum-linked learning programs about nature, the environment, conservation and plants. With changes to the current funding model, we are working closely with the Department of Education and Child Development (DECD) to ensure that this program continues to build upon its 50-year history.

I am pleased to report that engagement with the Little Sprouts Kitchen Garden Visiting Program has also continued to grow, with almost 4000 children and 900 adults participating in kitchen garden visits in the last year. This program has also joined with Flinders University and the

University of South Australia to host final year Nutrition and Dietetics students during their community placement practical assignments. These partnerships have provided for the development of curriculum-linked resources to support pre-schools, schools and teachers.

Education is also an important feature of the work of the State Herbarium, which continues to provide tertiary education to undergraduate students from Flinders University and The University of Adelaide. The students work on the Garden site and in the Herbarium, making excellent use of the location and expertise available here. In addition, the Gardens are a respected and sought after provider of horticultural education through the Australian Centre of Horticultural Excellence.

The Santos Museum of Economic Botany hosted two unique exhibitions in the past year. Nganmarra: the container of life was an exemplar of the relationship between Aboriginal people and the plant world. It was an inspiring exhibition visited by over 20,000 people between October 2015 and January 2016. I must acknowledge Nganmarra's exhibition partners – the Art Gallery of South Australia and Tarnanthi: the Festival of Contemporary Aboriginal and Torres Strait Islander Art.

The second exhibition, Watching Glass Grow by Tom Moore, examined the relationship between glass and botanic gardens in a quirky and unique way. The story of glass at Adelaide Botanic Garden spans three centuries and is told through the Palm House (19th Century), Bicentennial Conservatory (20th Century) and Amazon Waterlily Pavilion (21st Century). Moore's pieces contributed to this important story with and through artworks made of glass.

This past year has also seen a complete review of business and information technology systems, paving the way for efficiencies and increased productivity. We are continually seeking to improve our business practices and to find new mechanisms for revenue.

I am also happy to report that the health, safety and wellbeing of all staff remain a priority of the Gardens. As of 30 June 2016, we had achieved a total of 1922 days without lost time injuries. This remarkable achievement demonstrates the commitment of all staff to safety measures and I congratulate everyone involved.

In closing, I take this opportunity to acknowledge those who have contributed to our successes this past year.

I extend my thanks the Hon. Ian Hunter MLC, Minister for Sustainability, Environment and Conservation; Sandy Pitcher, Chief Executive of DEWNR; Judy Potter, Presiding Member of the Board; Ben Bruce, Group Executive Director of DEWNR; David Knox, Chair of the Adelaide Botanic Gardens Foundation; and Mr Bodo Jensen for his leadership as President of the Friends of the Botanic Gardens of Adelaide.

To each and every volunteer who contributed to the 46 000 total volunteer hours this year – thank you – your contributions are valued and appreciated. To the Board, thank you for your guidance and professionalism.

Finally, my sincere personal thanks to the staff of the Gardens and Herbarium for their outstanding hard work, tenacity, can-do attitude and for making me feel so welcome. It has been a pleasure and a privilege to work with you all.



Janice Goodwins
Acting Director
Botanic Gardens and State Herbarium

The Botanic Gardens and State Herbarium

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 1.378 million visitors this last year at the Adelaide Garden and 2.669 million across the three sites (including Botanic Park), 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 places for relaxation, entertainment, recreation, education, and research into collections of botany, ecology and horticulture.

Botanic Park, which was established in 1873 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. In 2015-16, Mount Lofty Botanic Garden attracted almost 500 000 visitors.

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 1965 it was bequeathed to the Botanic Gardens of South Australia 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 of South Australia



Located in the refurbished Tram Barn A in Adelaide Botanic Garden, the State Herbarium is the fourth largest herbarium in Australia containing more than 1.1 million scientific 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 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 identification of new plant species and detection of new weeds and rare or threatened species.

Plans and Objectives

The Board's Strategic Plan 2012-17

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 the 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 2012-17.

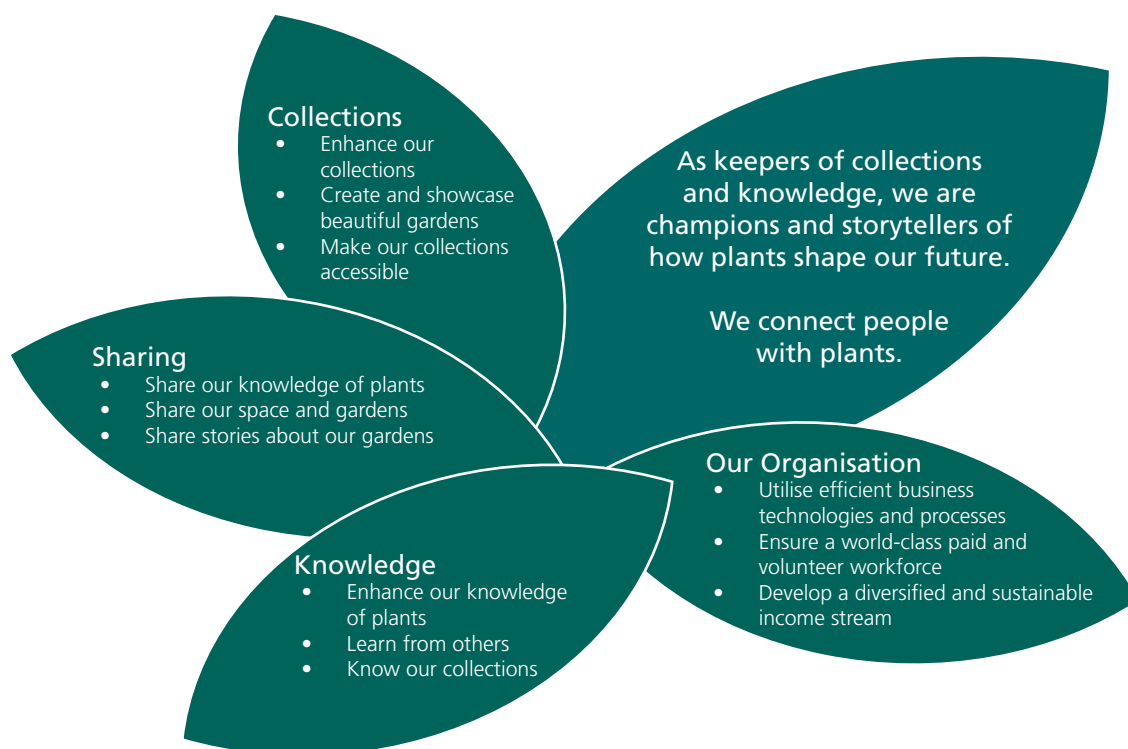
In formulating the plan, the Board was informed by the International Agenda for Botanic Gardens in Conservation's definition of a botanic garden as a, 'cultural institution holding documented collections of living plants for the purpose of scientific research, conservation, display and education'.

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; and
- 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.



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 15 of the 100 targets outlined in the plan.

Target 1: Urban spaces

Increase the use of public spaces by the community

With approximately 2.669 million visitors last year, 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.

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, the Adelaide Fringe and SA Living Artists Festival. Attendance at these events continues to grow, as does interest from artists/companies seeking to use the Gardens as a venue. The Gardens also continually seek new opportunities with the arts and cultural communities in Adelaide.

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) consistently ranks Adelaide Botanic Garden as number one on their 'Things to do in Adelaide' page, with an average rating of 4.5 stars out of 5. In 2016, TripAdvisor again awarded Adelaide Botanic Garden with a Certificate of Excellence based on user reviews. With increased exposure to local, national and international audiences through social media activity, the Gardens aims 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. A 2015 study of the economic and cultural value of a South Australian icon by Deloitte Access Economics assessed the Gardens impact on tourism at \$12.5 million per annum.

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 is a leader in work-safety. In March 2016, Gardens' staff reached the milestone of five 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.

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 46 000 hours contributed in 2015-16. The contribution of volunteers should not be underestimated. Volunteers work tirelessly across the three Gardens, in the State Herbarium and South Australian Seed Conservation Centre, Santos Museum of Economic Botany and the Library, with the Friends of the Botanic Gardens, within education programs and with the Adelaide Botanic Gardens Foundation.

Target 28: Aboriginal leadership

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

Indigenous consultation is always a major component for continued development of the interpretive plan and interpretative materials for the Gardens. Community and school education initiatives incorporate traditional plant knowledge into activities and resources, and through the engagement of traditional guides and instructors.

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 2015-16 the Board's membership was made up of four men and four women.

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 October 2015 indicates that customers and clients are very satisfied with the services offered by the Gardens, with an average satisfaction rating of 97%, the highest result since 2010.

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 for all floodlighting and throughout public spaces. The heat in the glass houses at Mount Lofty Botanic Garden Nursery have also been reduced.

Target 65: GreenPower

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

A 75 kilowatt solar panel system is 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.

Target 69: Lose no species

Lose no native species as a result of human impacts

The work of the 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. The Seed Bank currently stores 71% of South Australia's threatened flora (up from 67.5% last year). The State Herbarium provides ongoing authoritative data and advice on the identification and presence of threatened species in the state.

Target 72: Nature conservation

Increase participation in nature conservation activities by 25% by 2015

The Garden's Stewardship of Endemic and Endangered Species (SEEDS) project has continued its engagement with 15 South

Australian schools for the purpose of stewardship, education, scientific discovery and the re-introduction of threatened species, directly increasing nature conservation activities in 2014-15.

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. Approximately 35ML of water was injected into the First Creek Wetland in Adelaide Botanic Garden in its first winter injection in 2014-15.

Target 86: Psychological wellbeing

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

The three Botanic Gardens 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 Little Sprouts Kitchen Garden Program and Garden of Health, encourage people to learn about plants and their importance to physical and mental health and wellbeing. Regular yoga, qigong and meditation classes during the spring/summer months, also provide an opportunity for the public to engage in psychological wellbeing activities.

Target 93: Tertiary Education

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

The State Herbarium trained more than 60 final year university undergraduate students from The University of Adelaide and Flinders University in herbarium practises and the use of herbarium materials. It is a strategic priority of for the Board to deliver a high quality horticultural education program to South Australians and make it as accessible to as many participants as possible. The Australian Centre of Horticultural Excellence (ACoHE) provides horticultural training opportunities where students learn from South Australia's premier horticulturalists, utilising the world class living collections within the three Gardens, through a partnership with ARO Education. Three Botanic Gardens Horticultural Trainees graduated with a Certificate III in Horticulture in January 2016, with excellent outcomes. Two of these trainees now work full time at Mount Lofty Botanic Garden.



Sharing

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

2015-16 highlights

- Over 3000 students, teachers, presenters and parents participated in World Environment Day Celebrations in Adelaide Botanic Garden on 2 June 2016
- More than 17 000 students taking part in the Education at Adelaide Botanic Program
- Five new curriculum linked trails through Adelaide Botanic Garden were developed; there are now a total of over 60 trails for school groups
- Delivery of professional development to over 300 South Australian school teachers, encouraging them to connect students with the environment
- The Little Sprouts Kitchen Garden was officially opened by the Premier of South Australia, Jay Weatherill, and over 200 invited guests
- Over 3600 children and 900 adults participated in the Little Sprouts Kitchen Garden program in 2015-16, with the remainder of sessions fully booked for 2016.
- New and exciting elements in the Little Sprouts Kitchen Garden were installed. Features include new garden beds, compost bins, hand water pumps, resurfacing and the relocation of the Grow Shed
- The Gardens averaged 2.4 media mentions in traditional media (print, radio and TV) per day in 2015-16 with 864 mentions in total, compared to 743 mentions in 2014-15
- Wittunga Botanic Garden's 40th Celebration was celebrated with over 3000 attendees
- Attracted local, national and significant international media attention in direct response to the Tital Arum flowerings in December and February
- An increased focus on consistency and quality of social media posts saw huge gains in followers, reach and engagement across digital channels; Facebook page likes more than doubled, while followers on Twitter and Instagram jumped by more than 300%
- A renewed focus on video content production saw the Botanic Gardens YouTube channel gain more than 160 000 new views
- Two successful exhibitions, *Nganmarra* and *Watching glass grow* exhibitions in the Santos Museum of Economic Botany
- Official handover of the Chris Steele Scott Visitor Pavilion in Mount Lofty Botanic Garden from the Mount Lofty Botanic Gardens Support Group
- Grew the events program to include 46 events (up from 35 in 2014-15), appealing to a broader range of audiences, including young professionals, tertiary students, and families
- Record visitation to Mount Lofty Botanic Garden to view Autumn colours (over 60 000 in April 2016, compared to 25 000 in April 2015).

Education at Adelaide Botanic Garden

Adelaide Botanic Garden's School 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 has been a 50 year partnership between the Department of Education and Childhood Development (DECD) and the Botanic Gardens of South Australia. The program was coordinated by an Education Manager seconded from DECD until January 2016, and subsequently by an Education Coordinator from the Botanic Gardens of South Australia funded by DECD.



Children participating in World Environment Day activities in the First Creek Wetland in Adelaide Botanic Garden

In 2015-16 more than 17 000 students registered and took part in education programs. Curriculum linked programs, events, performances and activities throughout the year included:

- The continuation of the Stewardship of Endemic and Endangered Species (SEEDS) project in partnership with the South Australian Seed Conservation Centre. Fourteen schools across metropolitan and regional South Australia are currently participating. This environmental project aims to preserve living colonies of endangered and threatened plants species through environmental custodianship by schools over the longer term. It also aims to increase knowledge in the community, and with young people, about conservation and the environment. Wiltja has recently joined the program with representative students from six remote communities now involved. Gilles Street Primary School who has been involved with the SEEDS program also assisted in BGANZ Open Day in May 2016 by planting the Mount Lofty Speedwell (*Veronica derwentiana* ssp. *Homalodonta*).
- Continued development of age appropriate, curriculum linked education trails for schools. New trails include the Spice Trail, Food Trail, Cleopatra Trail and the Plant Animal Interaction Trail (in conjunction with Flinders University Biology Department). Pre-existing trails have also been redesigned, formatted and updated. In total, there now are over 60 curriculum linked investigation trails available for school groups which connect young people with plants.
- Professional Development learning opportunities have been held with teachers throughout the State involving 303 teachers. Professional learning sessions, held in conjunction with Adelaide Zoo have again been highly successful. In addition, four different sessions have also been held with Indonesian teachers.

- In partnership with the Adelaide Zoo, the Gardens has coordinated and delivered activities for students during Career's Week each school term. The aim is to lead students through the many different careers available at both the Adelaide Zoo and the Botanic Gardens of South Australia.
- Special events for schools have also been organised which feature educational days for students in partnership with Tandanya and the South Australian Museum, as well as Egyptian themed education days run in conjunction with the South Australian Museum.
- Curriculum linked photography sessions have been run with students. Feedback from schools has been very positive.
- In it's 20th year, World Environment Day on 2 June in Adelaide Botanic Garden, was again the largest celebration of environmentally-themed activity in the state, attracting over 3000 students, teachers, presenters and parents. The day involved 32 stations with around 70 presenters including Botanic Gardens staff, University Professors, conservation experts, Government experts, community societies and targeted conservation groups.

Little Sprouts Kitchen Garden

The Little Sprouts Kitchen Garden continues to be a very popular and inspiring place for visitors to Adelaide Botanic Garden. On 15 November 2015, the Premier, Hon Jay Weatherill, officially opened the Kitchen Garden at a VIP event, attended by over 200 invited guests.



Premier Jay Weatherill MP speaking at the Little Sprouts Kitchen Garden Celebration in November 2015

The Garden has entered the second year of the South Australian Government's contribution of \$1.6 million (over four years) to support both the construction of the garden, as well as the Little Sprouts Kitchen Garden Early Years Visiting Program.

Stage 2 construction has seen installation of new and exciting elements including new garden beds (including three raised garden beds) and a subsequent increase in growing space, compost bins, hand water pumps, resurfacing and the relocation of the Grow Shed. Upcoming works include the installation of a drinking and handwashing station, a shade arbour, and tables and chairs.

Thanks to the hard work of the Gardens' horticultural staff, the garden itself is well maintained and the collection continually reflects the seasonal nature of kitchen gardens. Visitors constantly provide feedback on how good the garden is looking and seeking advice on how they can improve their own gardens.

Led by the Little Sprouts Kitchen Garden Program Coordinator with the support of a team of volunteers, the visiting program continues to inspire young children participating in the program as well as the teachers, parents and grandparents who attend with them.

In the first 12 months of the program, 3600 children and in excess of 900 adults, participated, and the program is fully subscribed for the 2016 school year.

The program has been developed to be hands-on, sensory and aligned with national curriculum requirements. On any given day, the children will plant seeds or seedlings, hold a worm or learn about the role of compost in a garden, hunt for 'pests or guests' or search for garden 'treasure', experience the different smells and feel of herbs or taste a smoothie or pesto with ingredients straight from the garden (the watermelon and mint smoothie was especially popular over the hot 2016 summer!)

Little Sprouts Kitchen Garden E-newsletters are distributed on a monthly basis to support educators and parents as well as promote our program. In addition, monthly Little Sprouts blogs are produced to keep the public informed about what is happening in the ever-changing garden.

The Little Sprouts team has also partnered with both Flinders University and the University of South Australia to host final year University

students (Nutrition and Dietetics) on their community placement practical assignment. The Board acknowledges all volunteers who have made significant contributions to the program and ensuring the Gardens are meeting the needs of the many schools and educators that visit each week.

Key achievements to date include:

- Successful delivery of first full year of autumn/winter and spring/summer crops
- Successful delivery of first year of Little Sprouts early years visiting program – extremely high level of satisfaction from the schools that have participated
- Participation by 3600 children and over 900 adults in the first 12 months of the program, with the program also being fully booked for the 2016 school year
- Successful teacher Professional Development Workshop held in Kitchen Garden month (October 2015)
- Continued development of teaching materials and resources as well as an always evolving program
- Promotion of program through the BGSA website, monthly blogs and newsletters

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 with the public. The Gardens averaged 2.4 media mentions in traditional media (print, radio and TV) per day in 2015-16 with 864 mentions in total, compared to 743 mentions in 2014-15. The Gardens were mentioned in scores more publications in the digital space.

Digital strategy and activities

An increased focus on consistency and quality of social media posts was undertaken in 2015-16, which saw huge gains in the amount of followers, reach and engagement across these digital channels. Facebook page likes more than doubled, while followers on Twitter and Instagram jumped by more than 300%.

A renewed focus on video content production saw the Botanic Gardens YouTube channel gain more than 160,000 new views, while a new Blogs section was introduced to the website.

The redesigned and mobile responsive Botanic Gardens of South Australia website was launched in February 2016 following a six-month content renewal process and it sparked a dramatic increase in traffic. Average weekly page views have doubled since the site went live, while total page views jumped 50% in 2015-16 compared to the year before.

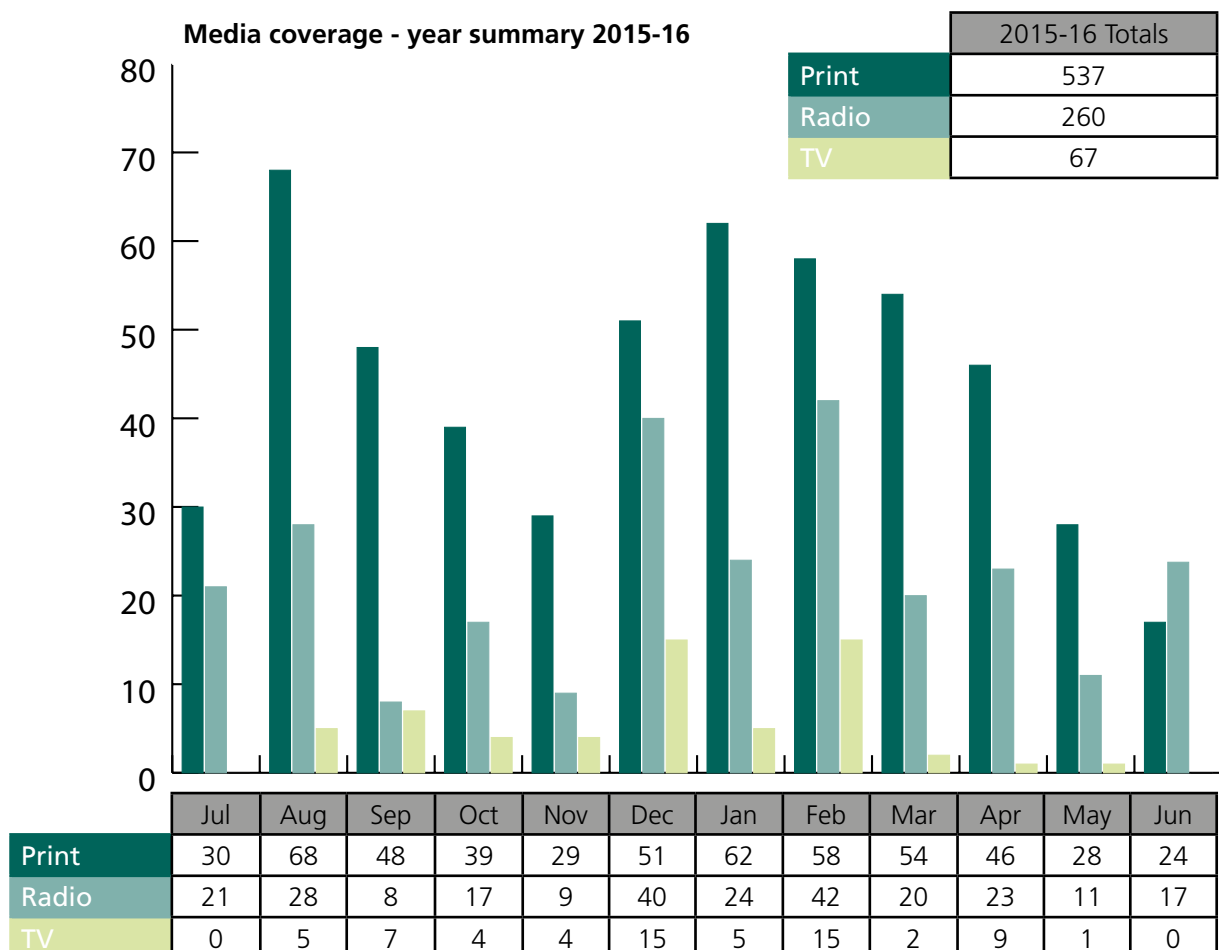
The Gardens' monthly e-newsletter subscription list grew to more than 9800 subscribers (up from 7000 last year).

Social media audience as at 30 June 2016

Facebook 17 333 page likes (7151 last year)
 Twitter 3409 followers (860 last year)
 Instagram 3185 followers (628 last year)
 YouTube 165 340 views (9529 last year)



New, mobile responsive, landing page for the Botanic Gardens website



Chris Steele Scott OAM Visitor Pavilion

Mount Lofty Botanic Garden's Chris Steele Scott Pavilion was officially handed over to the Board in November in a ceremony officiated by the Minister for Sustainability, Environment and Conservation Ian Hunter MLC; Mrs Steele Scott's husband Nigel Steele Scott; Hon David Wotton, Mount Lofty Botanic Garden Support Group Chair; David Knox, Adelaide Botanic Gardens Foundation Chair; and Board Chair Judy Potter, to a delighted crowd.

The Mount Lofty Botanic Garden Support Group initiated the project and was instrumental in raising the funds and in-kind support to build the Pavilion – named after Chris Steele Scott, a lifetime supporter of the Botanic Gardens and a Support Group founding member. More than 130 generous donors contributed to the Pavilion, which now provides much-needed, shelter, seating, educational displays and a meeting place for visitors. The occasion marked less than two years from the conception to completion.



L-R: David Gilbert; Nigel Steele Scott; Mount Lofty Botanic Garden Support Group Chair, Hon David Wotton; Board of the Botanic Gardens and State Herbarium Chair, Judy Potter; Minister for Sustainability, Environment and Conservation, Hon Ian Hunter MLC; Uni SA Architecture student Sam Chua; Adelaide Botanic Gardens Foundation Chair David Knox; and Friends of the Botanic Gardens of Adelaide President Bodo Jensen at the official handover celebration



The Chris Steele Scott OAM Pavilion at Mount Lofty Botanic Garden

Santos Museum of Economic Botany

The Santos Museum of Economic Botany 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 Garden's 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 exhibition, and in 2015-16 included:

Nganmarra¹

8 October 2015 – 19 January 2016

The staging of *Nganmarra: the container of life* in the Santos Museum of Economic Botany is significant. Since opening in 1881, the museum continues to inspire and sometimes provoke important conversations about the nature of our relationship with plants. Importantly, a collection of Aboriginal objects formed part of the museum's original exhibition. Since its inception, learning from 'other' cultures – and the sharing of knowledge and stories – has been the primary purpose of the museum (and, more broadly, the Adelaide Botanic Garden). The role of the museum is to focus on not only the financial 'value' of plants. While the gold-leaf lettering that adorns the facade of the building suggests wealth, cash crops and other colonial associations, there is another layer to the origins of this museum: the notion of 'economy to nature'.²

When the museum opened, Adelaide Botanic Garden director Richard Schomburgk's supporter, Albert Molineux, described his vision for the museum:

My idea is that, as every botanical exhibit in the Museum has a use and value to mankind, the word [economic] is most appropriate since they show what use can be made of various plants, and thus waste can be prevented. I do not intend to write a dissertation on the value of economy, but think it would be well were everyone to study how to prevent waste and make the most of everything that comes in their way. By 'studying economy' as illustrated in this Museum they may in time learn to 'live like lords'.³



Visitors participating in the weaving workshops run by female Aboriginal artists at the Nganmarra exhibition opening

And so within the institution of this small but important museum lies a 135-year tradition of exploring and understanding the connections between plants, people and culture. These 'connections' go back, in the case of Aboriginal culture, tens of thousands of years.

Nganmarra: the container of life is an exemplar of the relationship between Aboriginal people and the plant world. Through fibre, function and ceremony the *Nganmarra* works represent the creation, nurturing and sustenance of life.

Presented as an installation, this exhibition demands that we connect with the work physically, intellectually and emotionally – feet first, followed by our heads and hearts.

This exhibition was held in partnership with the Art Gallery of South Australia and Tarnanthi: the festival of contemporary Aboriginal and Torres Strait Islander Art.

The opening saw visitors and guests participate in weaving workshops run by the female Aboriginal artists. Approximately one thousand people visited on the day, with more than 20 000 people visiting the exhibition.

1 An extract from the catalogue *Tarnanthi* published by the Art Gallery of South Australia to accompany the exhibition

2 Carl Linnaeus's dissertation *The Oeconomy of nature*, ostensibly written by his student Issac J Bilberg in 1749

3 Albert Molineux, (1881) "The Museum of Economic Botany. Second Notice." *South Australian Register*, Adelaide, Tuesday 24 May pg. 1s.

Watching glass grow¹

28 February 2016 – 15 May 2016

Growing “things” under glass has been part of the Adelaide Botanic Garden’s history since its inception. Some of the Botanic Garden’s first exotic plants arrived in transportable glass boxes – Wardian cases – the only way plants could survive the long difficult journey. Once the plants were located in their garden beds, the Wardian cases were placed along the main walk and used for specimens that required protection.

The story of glass in the Adelaide Botanic Garden spans three centuries and is told through the Palm House (19th Century), Bicentennial Conservatory (20th Century) and Amazon Waterlily Pavilion (21st Century). And now, Tom Moore tells us an important story with glass, in glass and through glass.

The link between glass and botanic gardens takes us to the same time and place – Renaissance Italy. The first Botanic Gardens were those of Pisa, Padua and Florence. Padua is the oldest botanic garden (on its original site) established in 1545 by the Most Serene Republic of Venice.²

Advances in glassmaking had huge ramifications on science and technology. Based on the quality of Venetian glass, Galileo insisted on Murano glassmakers creating and grinding the lens of his telescope. On August 25, 1609 Galileo showcased his invention to the Venetian senate in the Plaza San Marco. Galileo looked at the stars and a scientific revolution was born.

1 An extract from the essay 20/20 Vision in the catalogue *Watching Glass Grow* published by the Board of the Botanic Gardens and State Herbarium to accompany the exhibition.

2 Padua is the oldest Botanic Garden still on its original site. Pisa was established in 1544 but was relocated twice before finding a permanent site in 1591. Florence was established in December 1545.



Elements of Tom Moore’s curious and quirky watching glass grow exhibition in the Santos Museum of Economic Botany

In this digital age, Moore’s methods are something of an anachronism paying homage to Venetian Glassblowing traditions, he says:

Many of these techniques were taught only recently outside of Venice by Muranese Maestros who believe that the only way the processes will survive and grow is if they are shared.

While Moore has developed some innovative variations, he is now part of an ancient lineage that represents a history of innovation.

The Santos Museum of Economic Botany in the Adelaide Botanic Garden is the perfect place to examine the plant world through the artist’s lens. While Galileo looked outward at the world and the stars, we started looking inward at ourselves – the results speak for themselves. Tom Moore looks at and creates another world, one that ignores scientific classification and taxonomy. His world is at once playful, humorous and enjoyable but also alarming and prophetic of the radical human change to this planet.

Human activity is making life impossible for many species and may well lead to conditions that are inhospitable for ourselves, however ... it will go on turning and creatures will continue to evolve.

Moore’s world is a place of evolutionary chaos – what might the world be like once the people are gone – a nonsensical plant-animal-machine population which is beautiful and fun but on further contemplation may incite bleaker thoughts.

With *watching glass grow*, Moore looks at the world, creates an alternate civilisation of plant-animal-machines that tells us a story that is both cautionary and optimistic. People have damaged the planet. Nature has the answers. When we question what we see in watching glass grow, we don’t need our eyes checked – Tom Moore has 20/20 vision.

This exhibition was presented as part of the 2016 Adelaide Biennial of Australian Art: Magic Object.

In excess of 1000 people visited on the opening day and a total of 21 000 people saw the exhibition.

7th Botanic Gardens Australia New Zealand (BGANZ) Congress, Wollongong, 25 – 28 October 2015

The 7th biennial Botanic Gardens Australia and New Zealand (BGANZ) Congress was held in Wollongong on Sunday 25 October to Thursday 29 October 2015.

The 2015 congress theme 'Connecting with Communities' highlighted the many ways in which botanic gardens across Australia and New Zealand play an important role in the environments in which we live, through partnerships, joint ventures, sharing, outreach work and advocacy.

The BGANZ Congress enabled botanic garden professionals an opportunity to come together, network and return to their respective gardens with new ideas and skills. This congress promised to deliver not only thought-provoking seminars, workshops and tours but also a strong focus on networking through a range of events.

Six BGSA staff attended the Congress with thanks to support from the Friends of the Botanic Gardens.

At the conclusion of the Congress, long-serving BGSA staff member Mr John Sandham was elected President of BGANZ and the Board take this opportunity to congratulate him on his achievement.

Events at the Gardens

South Australian Living Artists Festival (SALA)

Adelaide Botanic Garden | August 2015

A record six exhibitions were held in the Adelaide Botanic Garden during the 2015 SALA Festival.

The opening afternoon saw guests and the general public enjoy speeches from the artists, and the Senior Curator from the Anne and Gordon Samstag Museum of Art, who officially opened the exhibitions. The exhibitions were in the Simpson Kiosk, Diggers Garden Shop, North Lodge and the Bicentennial Conservatory, and they ranged from photography and painting, to immersive cinema in a planetarium dome.

Nebula Deluxe

Bicentennial Conservatory | 31 July and 1 August 2015

The Mill Adelaide and The Happy Motel presented a theatre, music, dinner, drink and dance experience in the Bicentennial Conservatory. This interactive, 'variety show' event including tarot readings, characters interacting with patrons and themed food. The event sold out over the two nights, attracting more than 200 people.

Citydash

Adelaide Botanic Garden | 15 August 2015

Citydash is an online treasure-hunt-style game, played in the outdoors. Participants compete against each other in groups, following clues on their mobile phones to find special hidden checkpoints scattered throughout the Garden. The game is popular in London, and has also been played in San Francisco, Berlin, Copenhagen, Krakow, Melbourne and now Adelaide. Citydash in Adelaide Botanic Garden attracted 30 participants and encouraged them to discover parts of the Garden they had never seen before.

Treasure Hunt for Nature

Adelaide Botanic Garden | 16 August 2015

The Nature Foundation held its inaugural fact-finding treasure hunt, to encourage people to engage with and understand the natural environment, history and arts. Approximately 200 people participated in the treasure hunt that included clues hidden in Adelaide Botanic Garden. Participants engaged with different areas of the Garden including the Santos Museum of Economic Botany, the First Creek Wetland, and the International Rose Garden.

Adelaide Marathon

Adelaide Botanic Garden | 23 August 2015

Each year the SA Road Runners Club hold their annual marathon through the city of Adelaide, including Linear Park and Adelaide Botanic Garden. Approximately 1500 people participated in the event, running through the Garden before the gates opened to the public.

TreeNet - Tree Climbing Championship

Adelaide Botanic Garden & Botanic Park | 4 September 2015

Hosted by The South Australian Society of Arboriculture, the State's leading professional arborists competed in various professional tree climbing challenges across the day. The challenges tested their expertise in general work and rescue practices, as well as strength and speed. The event was held in Botanic Park and Adelaide Botanic Garden, in conjunction with the TreeNet Conference. While the event was industry focused, it was also open for the general public to watch, and attracted around 100 spectators.

Adelaide Youth Orchestra

Adelaide Botanic Garden | 12 September 2015

Each year the Adelaide Youth Orchestra presents a series of free outdoor performances around Adelaide. The Adelaide Youth Strings is an ensemble of over 50 young primary school age children between 7 and 13 years, who performed in Adelaide Botanic Garden as part of this series. The free one hour concert, on the lawns under the Plane Trees, included classical, folk and world music and attracted around 200 people.

Wittunga Garden Blitz

Wittunga Botanic Garden | 13 September 2015

The Wittunga Blitz attracted close to 40 volunteers who assisted Garden staff to spread mulch, weed and plant over 100 trees. For the first time, the Blitz was held at Wittunga Botanic Garden and marked the 40th anniversary of the Garden's opening to the public. The Blitz served as an opportunity to help prepare the Garden for its official 40th Celebration event in October. The morning was a great success and volunteers enjoyed a BBQ lunch to celebrate the amazing contribution they made to the Garden.



Wittunga Botanic Garden Spring Blitz

Nature Play Festival Launch

Botanic Park | 27 September 2015

The inaugural Nature Play Festival was held during the October 2015 school holidays, and to mark the beginning of the festival, a free family friendly event was held in Botanic Park. Presented by Nature Play SA, the event included loose parts play, mud pie making, nature craft and music. The event was a great success and attracted approximately 2000 attendees.

Mindfulness Session

Adelaide Botanic Garden | 8 October 2015

As part of Mental Health Week, the Mental Health Coalition of SA held two free mindfulness sessions in Adelaide Botanic Garden. These 30 minute sessions gave city workers and visitors the opportunity to re-connect with their space and be more mindful. Approximately 50 attendees enjoyed the experience.

Young Adelaide Voices

Adelaide Botanic Garden | 8 October 2015

Young Adelaide Voices, the leading youth choir in South Australia, hosted its inaugural Watu Youth Choir Festival from 7-10 October 2015. The festival included a number of free pop-up choir performances across the city, including Adelaide Botanic Garden. The impromptu performance was enjoyed by those in the Garden at the time.

Santos Museum of Economic Botany | Exhibition Opening | TARNANTHI – Nganmarra: The Container of Life

Adelaide Botanic Garden | 11 October 2015

The Santos Museum of Economic Botany hosted this exhibition in partnership with the Art Gallery of South Australia, as part of the TARNANTHI Festival. The Festival is the inaugural Festival of Contemporary Aboriginal and Torres Strait Islander Art and featured exhibitions from over 300 artists across 21 venues. The exhibition featured hand woven mats and artefacts from the women of Arnhem land. The official opening afternoon attracted around 120 people, including guests and members of the public who also enjoyed a free weaving workshop by the artists.



Wittunga Botanic Garden 40th Birthday Celebration

Wittunga Botanic Garden 40th Celebration

Wittunga Botanic Garden | 17 October 2015

Wittunga Botanic Garden celebrated its 40th Anniversary of opening to the public in October 2015. To mark the occasion, the Botanic Gardens presented a free public community event in the Garden, including food by *Fork on the Road*, music by the Band of the SA Police, children's activities by Nature Play, Dig-a-Dino and PLAI, guided walks by the Friends of the Botanic Gardens, plant preservation activities by the South Australian Seed Conservation Centre and more. The event was a great success with over 2000 people attending over the course of the day, with 1600 people being the most in attendance at any one time. In a post-event survey, 25% of the respondents stated they had never visited Wittunga before and 89% rated the event as either very good or excellent.

Literacy Book Launch

Adelaide Botanic Garden | 30 October 2015

Raising Literacy Australia Inc. launched a free Pre-Schooler Reading Pack to a small group of invited guests in the Little Sprouts Kitchen Garden. The reading pack, developed in association with SA Health, focused on food literacy, and had a direct link with the aims of the Kitchen Garden.

Yoga, Qui Gong and Meditation in the Park

Botanic Park | October 2015 to March 2016

On the last Sunday of the month, a free session was held in Botanic Park, incorporating yoga, qui gong, tai chi and mediation. Each month the classes attracted between 30-60 people of various ages, all of whom enjoyed the peace and tranquillity of the Park.

Band of the SA Police Concert

Adelaide Botanic Garden | 8 November 2015

The Band of the SA Police presented a free afternoon concert in the Garden for the public to enjoy. The performance featured their Concert Band including 34 musicians plus a vocalist. The concert attracted around 140 people, who enjoyed an afternoon in the Garden with their picnic rugs and the upbeat music.

Chris Steele Scott Pavilion Opening

Mount Lofty Botanic Garden | 11 November 2015

The Chris Steel Scott Pavilion is a new visitor amenity built adjacent to the lower car park in Mount Lofty Botanic Garden. Named after the late Chris Steele Scott, who contributed significantly to the Garden during her time as a staff member and founding member of the

Mount Lofty Botanic Garden Support Group. The pavilion offers shelter in all seasons and is a meeting place for visitors to meet with Garden Guides for talks and tours. Approximately 120 invited guests attended the official hand-over ceremony, where the Board accepted the gift of the Pavilion from the Mount Lofty Support Group and Adelaide Botanic Gardens Foundation. The event was a great success, and the memory of Chris Steele Scott now lives on in the Garden.

Little Sprouts Kitchen Garden Opening Celebration

Adelaide Botanic Garden | 11 November 2015

To celebrate the great success of the first Little Sprouts Kitchen Garden program, guests and their children/grandchildren were invited to attend a morning tea in the Kitchen Garden, complete with various activities, including making pedal-powered smoothies with bicycles, and planting seeds to take home. Over 200 guests attended, including the Premier, Hon Jay Weatherill, with his children.



Little Sprouts Kitchen Garden Celebration

Corporate Volunteering Day: Deloitte

Wittunga Botanic Garden | 20 November 2015

Approximately 20 employees from Deloitte worked alongside horticulture staff to assist with spreading mulch, weeding, and other tasks at Wittunga Botanic Garden. Employees and staff enjoyed the beautiful surrounds of the Garden with a morning tea and picnic lunch, whilst making a significant contribution to mark the 40th Anniversary of Wittunga.

Meet Trixie the Cow

Adelaide Botanic Garden | 19 January 2016

As part of the City Crop Lucerne project and in collaboration with Misty Brae Holdings Dairy Farm, Trixie the real-life dairy cow and a calf, visited the Adelaide Botanic Garden. People of all ages were able to meet Trixie and the calf, pat her and feed her lucerne from the crop. Children were also invited to make their own milk-bottle cow figurine to take home, and the Restaurant



Trixie the Cow in the City Crop at Adelaide Botanic Garden

ran a pop-up milkshake bar where visitors could make their own milk shake with pedal powered smoothie bikes. This event also ran as part of the School Holiday Program.

Moonlight Cinema

Botanic Park | 3 December 2015 - 14 February 2016

Moonlight Cinema is one of Adelaide's key outdoor cinemas, screening a full program of films including new releases, cult favourites and classics. Located in the beautiful Botanic Park, patrons enjoy the film under the stars, rugged up on picnic blankets or bean bags, with food and wine available to purchase or they can bring your own. Over 20 000 people attended Moonlight Cinema screenings in 2015-16.



Moonlight Cinema in Botanic Park

International Volunteer Day | Thank You Event

Adelaide Botanic Garden | 4 December 2015

To acknowledge the significant contribution of the Board's volunteers, an afternoon tea was hosted with a preview performance by Splash Theatre Company. The 81 volunteers who attended also received a small gift and recognition from both the Chair of the Board and the Acting Director.

Wittunga Under the Stars

Wittunga Botanic Garden | 5 February 2016

The Lions Club of Blackwood presented a ticketed concert at Wittunga Botanic Garden. Patrons were welcome to bring their own picnic and drinks, and a small number of food vendors were also available onsite for convenience. It was a beautiful evening under the stars with live jazz and Rock & Roll music enjoyed by approximately 800 people from the local area and surrounds.

Adelaide Fringe

Adelaide Botanic Garden | February 2016

As part of the 2016 Adelaide Fringe, this free, family event included *A Magical Journey into the Enchanted Garden*, *Rainbow Kids* and *Family Yoga*. The events provided an opportunity for mindfulness for families, along with craft activities, singing and dancing and bubble blowing. Set beneath the Plane Trees in the Garden, it was a fun event enjoyed by approximately 50 people including parents and children.

Mr Badger telling the story of *Wind in the Willows* was a ticketed Fringe performance, set beneath the trees in a secluded part of the Garden. This storytelling performance was enjoyed by 279 people, including children, families and schools.

Another ticketed performance, *Cosmo the Clown Fun and Magic Show*, saw families being entertained with tricks, gags, singing, dancing and more.

In March, the free performances of Otanical featured a 360 degree, virtual reality show, where characters came alive in Adelaide Botanic Garden through the screen of an iPad. The performances attracted 335 people who enjoyed seeing something very different, using innovative and

cutting edge technology that crossed the barriers between the arts and tech industries.

Love Notes in Adelaide Botanic Garden

Adelaide Botanic Garden | 14 February 2016

The free Valentine's Day event was presented by the Botanic Gardens with the support of the Adelaide City Council's Splash Adelaide program. Visitors were invited to celebrate Valentine's Day in the International Rose Garden where they could dedicate a rose to their loved one with a helium balloon and write a love note which was displayed in the Garden's Love Note Lane for all to read. This 'celebration of love' was enjoyed by 290 people of all ages.

KIS in the Garden

Adelaide Botanic Garden | 19 February 2016 & 4 March 2016

This ticketed event was presented by the Botanic Gardens with the support of the Adelaide City Council's Splash Adelaide program, in collaboration with the Botanic Gardens Restaurant and Kangaroo Island Spirits (KIS). Patrons enjoyed an after-work drink in the pop-up garden bar, music and a tour through the Garden with the owners of KIS. The event provided an opportunity for visitors to learn more about the amazing plants that are used to distil gin. The event sold out within 10 days of being on sale, attracting 155 people to the Garden after the gates had closed.



KIS in the Garden

Twilight Reception with Chef of the Year, Paul Baker

Adelaide Botanic Garden | 24 February 2016 & 28 April 2016

Invited guests enjoyed this intimate evening in the open air, sampling canapes made using produce from the Adelaide Botanic Garden and taking a tour with the Advertiser's Chef of the

Year, and Botanic Gardens Restaurant Executive Chef, Paul Baker. The tour of the Garden included different ingredients that Paul forages from the Garden, which feature in his cuisine.

Santos Museum of Economic Botany Exhibition Opening: watching glass grow

Adelaide Botanic Garden | 28 February 2016

This exhibition was presented by the Botanic Gardens, and was held as part of the Adelaide Biennial of Australian Art, in collaboration with the Art Gallery of SA. The opening afternoon featured a free glass terrarium workshop, as well as speeches and drinks. The event attracted approximately 200 guests including the public and invited guests. The exhibition continued in the Museum until the end of May 2016.

WOMADelaide

Botanic Park | 11-14 March 2016

WOMADelaide is one of Australia's favourite outdoor music festivals, featuring seven stages, with over 92 performances from artists representing over 25 countries. This world-famous event also features workshops, panel sessions, cooking demonstrations, market stalls, installations and more. Set in the beautiful surrounds of Botanic Park, this year's event attracted a record number with over 95,000 attendances over the course of the long weekend. Among the many highlights were Australian festival favourites *The Cat Empire* and the stunning collaboration between *Benin's Angélique Kidjo* and the *Adelaide Symphony Orchestra*, Colombian harpist Edmar Castañeda Trio, American singer-songwriter John Grant, the powerful protest-dance music of *47SOUL*, and UK cross-genre party band *Asian Dub Foundation*. Canadian academic, science broadcaster and environmental activist David Suzuki also presented an inspiring and topical keynote address highlighting the 2016 Plant Talks program, which also saw its largest audiences to date.

The National Rose Trial Association of Australia's People's Choice Weekend

Adelaide Botanic Garden | 9-10 April 2016

The National Rose Trial Association of Australia held their annual free, public event where visitors were invited to vote for their favourite rose from the new varieties that are growing in the National Rose Trial Garden. The event attracted 1204 voters – the biggest turn-out to date

(almost double last year's attendance). It was an opportunity for visitors to enjoy the beautiful roses and the surrounds of the Garden.

Heirloom Weekend

Adelaide Botanic Garden | 9-10 April 2016

Held on the same weekend as the People's Choice Weekend, this free event was presented by the Botanic Gardens in collaboration with The Diggers Club. Visitors enjoyed free workshops about growing their own produce, an heirloom produce display, farmers' market stalls selling fresh produce, live music, and children's activities including old-fashioned butter churning and more. The event aimed to promote heirloom produce and "old becoming new again". The event attracted around 2000 people.

Citydash

Adelaide Botanic Garden | April 2016

Following a successful season during the 2016 Adelaide Fringe, and a successful event in the Garden last August, Citydash returned to the Garden during April. This online treasure-hunt-style game, which is played in the outdoors, had an Alice in Wonderland theme, with people dressing up in character costumes. Participants followed clues on their mobile phones to find special hidden checkpoints scattered throughout the Garden. The games attracted 220 participants, who enjoyed exploring the Garden in a refreshing new way.



Heirloom Weekend stalls in Adelaide Botanic Garden

Mothers' Day Classic

Adelaide Botanic Garden | 8 May 2016

Each year the Mothers' Day Classic brings people of all ages together to raise money for breast cancer research. Approximately 5000 participants enjoyed running or walking through the Garden, as part of the 7km event route.

Iftar Dinner

Adelaide Botanic Garden | 18 June 2016

This cultural celebration was hosted by members of the Shahin family, The Muslim Community of South Australia and The Islamic Arabic Centre to celebrate the month of Ramadan. Approximately 200 guests attended the dinner celebration on the Santos Museum of Economic Botany Lawns.

School Holiday Program

The Adelaide Botanic Garden continues to host regular school holiday programs for children, providing high quality nature-based learning. 55 workshops were delivered in 2015-2016 with over 1000 primary school-aged children participating with their families. This year saw new activities run for the first time by the Friends of the Botanic Gardens, as well as some activities relating to the Kitchen Garden and City Crop run by Gardens' staff.

Other events managed by Blanco Food and Events

In 2015-16, Blanco Food and Events coordinated a number of corporate events and private functions, including Christmas parties and weddings. 189 wedding ceremonies were coordinated across Adelaide, Mount Lofty and Wittunga Botanic Gardens, and Botanic Park.

They also coordinated 12 private parties inside the Gardens and 15 corporate events in Botanic Park.

Blanco also hosted 27 wedding receptions and 34 corporate events in the Botanic Gardens, and facilitated 67 photography permits.

Scientific publications

The *Journal of the Adelaide Botanic Gardens* is a peer reviewed, open access journal published by the State Herbarium on behalf of the Board. The journal publishes research papers on systematics, taxonomy and nomenclature of plants, algae and fungi, as well as articles on descriptive plant morphology, anatomy, genetics, ecology and botanical history.

During the financial year, six scientific articles were published (34 pages) online in Vol. 29. Hardcopy of Vol. 28 was printed and distributed to the Botanic Gardens Library's exchange

partners. In July 2015, the new journal web-presence on EnviroDataSA was launched (flora.sa.gov.au/jabg). All journal articles published since Vol. 1 (1976) are available online (over 5000 pages). The new web-page features a clearer layout and easier search functions, ensuring discoverability and accessibility for the international research audience who access this publication.

In addition, the Journal, and since February 2016, the *Journal of the Adelaide Botanic Gardens Supplement*, is available through JSTOR (jstor.org), a subscription-based service for institutional libraries around the world.

General public engaged in fungi identification course

Following the success of the workshops run last years, State Herbarium Hon. Research Associate Pam Catcheside presented another Fungal Identification Workshop on 17 May 2016. Fourteen participants attended, mainly students and DEWNR staff. The workshop was designed for those involved in the collection, identification and documentation of fungi or who might encounter fungi in the course of their work or research.

BioBlitz

The State Herbarium is a partner in the University of South Australia's citizen science program 'BioBlitz'. A BioBlitz involves a team of scientists and naturalists working with the public to discover and record the life of a park or reserve. BioBlitz events include activities for all ages, experienced and novice naturalists, and anyone who wants to contribute and learn.

BioBlitzes target reserves where there is scarce information about their biodiversity and are usually 24-36 hours long, including daytime and night-time activities. Herbarium staff and honoraries have participated to help educate and work with the public to gather biological survey information relating to native plant and weed occurrence in the survey areas. In this financial year, surveys took place in the St Kilda mangroves, coastal Hallett Cove and Morialta Conservation Park.

Plant of the Month

The blog of the Friends of the State Herbarium is becoming increasingly popular with 187 people subscribing directly, others following through Twitter and Facebook. It informs Herbarium volunteers and the general public about the activities of the State Herbarium. The most popular blog posts were a story on the Herbarium's Summer Scholarships, as well as the regular Plant of the Month posts.

In these posts, a Herbarium staff member described and illustrated a plant occurring in DEWNR's Park of the Month. This ranged from well-known species, such as *Eucalyptus camaldulensis* (river red gum) from Murray River National Park, to a rare *Hovea* from the Flinders Ranges, seagrasses from Encounter bay Marine Park and the fungus *Cortinarius austrovenetus* from Cleland Conservation Park.



Sarah Harvey and Jessica Burdon from the University of Adelaide School of Biological Sciences working in the Herbarium

History Month

For the fifth year running, the State Herbarium of South Australia opened its doors to the public for one weekend in May (7 & 8 May 2016) for

History Month tours. Facilitated by History SA, the tours allow the public to explore buildings that wouldn't normally be accessible to them. The State Herbarium is housed in the Heritage-listed Tram Barn A, completed in 1909, abandoned in 1992 and converted to the Herbarium in 1999. The building's controversial history (such as two 'brickbat' awards for being a blot on the landscape) and architectural features were interwoven into a story about its current use as the State Herbarium. Most of the Herbarium is managed as a strict quarantine zone accessible only to staff and approved visiting researchers so a tour into its vaults is a rare experience.

The tours were led by Herbarium Manager, Peter Canty and Chief Botanist, Michelle Waycott supported by staff members Ainsley Calladine and Helen Vonow. The tours were again very well received with each session over-booked and attracting about 60 participants.

Herbarium Summer Scholarship Students

Aside from managing a collection of over one million specimens and providing botanical expertise, the State Herbarium of South Australia seeks to inspire new generations of botanists to pursue a career in plant systematics. For a select number of university undergraduates, the Herbarium provides opportunities to gain first-hand experience in the Herbarium's work, whether it be in specimen curation or taxonomic research. The Herbarium has been doing this through a program of summer scholarships where some of the most promising students are offered the opportunity to enhance their skills and knowledge and gain first-hand career experience. Two students, Jessica Burdon and Sarah Harvey from the University of Adelaide School of Biological Sciences, were offered this opportunity over the summer break 2016 and both spent 6 weeks working in the Herbarium Collections.

Autumn colours at Mount Lofty Botanic Garden

The striking Autumn colours at Mount Lofty attracted record visitation in the month of April with over 60 000 flocking to witness the spectacular display. Social media played a huge role in sharing this story with a single Facebook photo post reaching over 220 000 people and shared over 1500 times in just a few days. Visitation was so high, the Gardens' extended its opening hours and set up a free shuttle bus loop between Crafers, Cleland Wildlife Park and the Garden to accommodate the crowds.



Knowledge

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

2015-16 highlights

- Another sold out *Economic Botany Today* Master Class with world-renowned botanist David Mabberley was delivered, teaching a deeper understanding that our daily lives are full of close encounters with the plant kingdom, including food, textiles, medicines, drugs, dyes, pesticides and perfumes. In this two-day course participants learned about the fascinating human side of plant-animal interactions
- Continued engagement with 15 schools across metropolitan and regional South Australia in the *Stewardship of Endemic and Endangered Species (SEEDS)* project. The project involves students protecting endangered plant species through active science
- Botanic Gardens and State Herbarium staff presented to a special symposium to celebrate the *Past, Present and Future of Botanical Research* as a part of the SA Natural Resources Management Science Conference
- Recognition of the *Podolepis rugata* subsp. *trullata* (pleated daisy) as the 5000th taxon for South Australia was recognised by the State Herbarium (a taxon is a species, subspecies or variety of plant)
- A new plant identification course for the forensic identification of Cannabis for South Australian Forensics laboratory staff was developed and facilitated by the State Herbarium
- Rediscovery of the *Hibbertia hirsuta* in South Australia 130 years after it was first collected in the State (for a long time, the species was thought to only occur in Tasmania).

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

The Gardens 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 organisation's strong desire to remain at the forefront of plant knowledge.

Green Infrastructure

The Green Infrastructure Project commenced during 2011 as an ambitious collaborative partnership hosted by the Botanic Gardens of South Australia. It is founded upon the compelling evidence that green and blue spaces

are critical to human well-being and quality of life. Substantial research in many parts of the world has firmly established the vital role of Green Infrastructure in securing the health, livability and sustainability of urban environments.

Funding partners this year include the Department of Planning, Transport and Infrastructure (DPTI), and the Adelaide and Mount Lofty Ranges Natural Resources Management (AMLRNRM) Board.

This year this partnership enabled the delivery of presentations at the TreeNet Conference and the AMLRNRM Climate Forum. The development of a State-wide Green Infrastructure Plan was listed in the 30 Year Plan for Greater Adelaide update. Further development also took place on the Living Adelaide Initiative, which outlines ways address key issues such as climate change, health and wellbeing and biodiversity and community

cohesion, for a state that is economically, environmentally, socially and culturally sustainable.

A review of the Green Infrastructure Project in late 2015 revealed strong alignment of the project with the Department of Environment, Water and Natural Resources' Water and Climate Change Branch, specifically with the Climate Change Strategy and Carbon Neutral Adelaide. As a result, the Green Infrastructure Project Officer has relocated and reports to the Water and Climate Change Branch. The Botanic Gardens does however maintain input into the project.

Economic Botany Today: A study of practical ecological biochemistry for humans

In October 2015 one of the world's greatest living botanists, Professor David Mabberley, returned to the Botanic Gardens of South Australia to deliver his renowned course in Economic Botany.

Sixteen participants formed a deeper understanding about our daily encounters with the plant kingdom, including food, textiles, medicines, drugs, dyes, pesticides and perfumes. In this two-day course they learned about the fascinating human side of plant-animal interactions.

This course was not only for botanists and ethnobotanists, but all those interested in the biological basis of human society. It provided a far deeper understanding of plants, how they have shaped our past and how they can impact our future. The course was fully subscribed, well received and a follow-up course will be delivered by Professor Mabberley in October 2016.



Professor David Mabberley presenting Economic Botany Today in Noel Lothian Hall in Adelaide Botanic Garden

'Botany 2016 - Past, Present and Future'

On 14-15 April 2016 a special symposium to celebrate the Past, Present and Future of Botanical Research associated with the State Herbarium of South Australia was held as a part of the SA Natural Resources Management Science Conference. Following the symposium, a special issue of the then, newly renamed journal *Swainsona* will be published containing short review papers of many of these presentations. Staff, students and research affiliates from the State Herbarium, Botanic Gardens and invited contributors made the symposium a success.

5000th new taxon of vascular plant added to the State's species list in August 2015

In August 2015, the 5000th taxon for South Australia was recognised by the State Herbarium (a taxon is a species, subspecies or variety of plant). The newly described plant *Podolepis rugata* subsp. *trullata* (pleated daisy) is a rare native daisy with striking, bright yellow flowers. It is endemic to southern Yorke Peninsula, occurring in Innes National Park, Althorpe Island and on Busby Islet, off the northern shore of Kangaroo island.

The pleated daisy was found in Innes National Park by amateur naturalists Trudie Jaques and Tony Lewis, who recognised its unique appearance. Thanks to photos and specimens they collected we were able to formally identify the plant.' They also collected the type specimen, which is now stored in the State Herbarium's vaults.

The State Herbarium continues to document the presence of new plant species and subspecies in South Australia and reporting them through the *South Australian Census for plants, algae & fungi*. Up-to-date Census information and other data on the State's plants is available via the State Herbarium's eFloraSA website (flora.sa.gov.au).



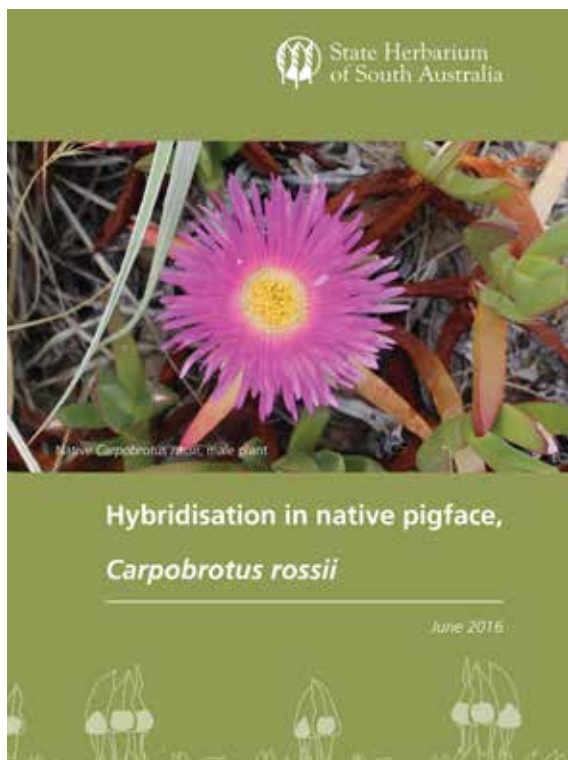
Podolepis rugata ssp. *trullata*, INP 0296, near Cape Spencer, YP by T.M.Jaques, flower & bud lateral

State Herbarium goes forensic

An unusual but occasional activity staff from the State Herbarium of South Australia are asked to perform is providing forensic evidence, or support in forensic identification of plant specimens. This past year our Chief Botanist has given forensic evidence in a high profile court case (still in process), and illegal plant collection prosecutions. In addition we have been consulted in identifying pollen types as well as partnering with research institutions, state and national forensics groups and other collections institutions, on the development of a new Advanced DNA Identification Facility for Forensics (ADIFF) which received national funding from the Australian Research Council for infrastructure in 2016.

Herbarium staff also developed and ran a new plant identification course for the forensic identification of Cannabis for the South Australian Forensics laboratory staff.

The State Herbarium completed a research project funded by the State Herbarium of South Australia, funded by the Adelaide and Mt Lofty Ranges NRM Board (AMLR), on the invasive species *Carpobrotus edulis* (L.) N.E.Br. and its hybrids with the native *Carpobrotus rossii* (Haw.) Schwantes. A brochure summarising the research has been developed for communicating the



Brochure summarising the findings from research on introduced species of *Carpobrotus* hybridisation in South Australia.

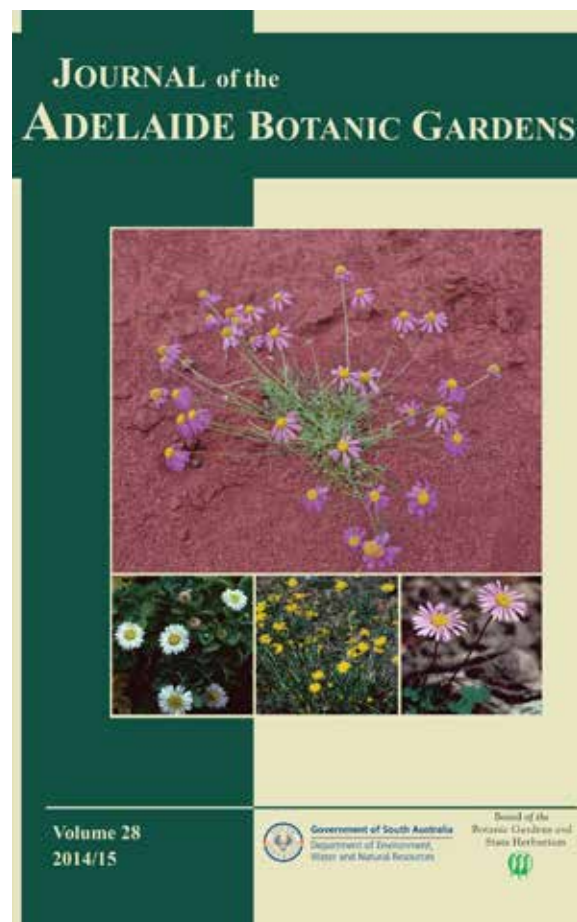
outcomes of the project to the community with illustrations and keys to species of *Carpobrotus* in the Adelaide coastal regions provided.

Several staff and Hon. Associates of the State Herbarium, as well as one summer scholarship student and collaborators at The University of Adelaide, were involved in the project. The results indicate that hybridisation between the two species is common in areas where both species occur and identification of hybrids is complex.

Threatened species support

State Herbarium staff have made significant contributions to a review of the State's threatened species and identification of species of State and national concern. The last revision of the threatened species schedules under the *South Australian National Parks and Wildlife Act 1972* were gazetted in February 2008.

Between 2008 and 2014 the conservation statuses of all of South Australia's known native vascular plant and vertebrate animal taxa were



Cover of a recent issue of the *Journal of the Adelaide Botanic Gardens*.

assessed for each of the State's eight Natural Resource Management regions. Assessments were made by panels of taxonomic experts and local naturalists who applied the widely-accepted, International Union for the Conservation of Nature Red List criteria for deriving regional status. The panels drew on their own field knowledge and also accessed plots of vouchered records held by the State Herbarium of South Australia and data from the Biological Databases of South Australia (BDBSA).

During 2015-16 more workshops involving many of the same experts have been re-assessing the native plant and animal species at the State level. Now completed, the results will be used to update relevant legislation and to stimulate and prioritise on-ground conservation work and further research.

Rediscovered *Hibbertia* in South Australia

State Herbarium Hon. Associate Dr Hellmut Toelken described the rediscovery of *Hibbertia hirsuta* in South Australia, 130 years, after it was first collected in the State, in the *Journal of the Adelaide Botanic Gardens*. For a long time, the species was thought to only occur in Tasmania. But plants collected during the last years from near Meadows and Kuitpo Forest, confirmed its presence. The only other material collected before that was herbarium specimen from 1881 by J.G.O. Tepper, teacher, botanist and entomologist, who was later employed at the South Australian Museum.

This highlights the importance of the work of Herbarium staff members and Hon. Associates and their expertise in the detection, documentation and conservation of the State's flora. Without detailed studies of the material in Herbarium collection and the availability of new material, a discovery such as *Hibbertia hirsuta* would not have been possible.

Publications and other contributions

Publishing information on plants is one of the main activities of the State Herbarium of South Australia. This year, we issued two chapters of the new, 5th edition of Flora of South Australia online (flora.sa.gov.au/ed5), the plant families Ulmaceae and Cannabaceae, and started preparing more Flora chapters for publication. As stated before, six scientific articles were made available in Vol. 29 of the *Journal of the Adelaide Botanic Gardens* online, and hardcopy of Vol. 28 printed.

Herbarium staff members were heavily involved in editing the Conference handbook for the 2nd Natural Resources Management Science Conference, held in May 2016. New revised editions of three information brochures about the State Herbarium were produced, as well as four promotional banners.

A comprehensive course manual was compiled for the *Cannabis* identification course, held by the Herbarium for Forensics SA. A brochure reporting the outcomes of the *Carbobrotus* research project and helping people to identify native and introduced species was published in collaboration with the Adelaide Mount Lofty Natural Resource Management Board.



Collections

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

2015-16 highlights

- The percentage of threatened plant species conserved through seed bank deposits reached 71% of the state's flora, 3.5% more than last year.
- Over 90 seed collections were made, including 29 species endemic to South Australia and 40 threatened species, during field trips to the Kangaroo Island, Lake Eyre, South East, Murray, Northern and Southern Lofty Regions.
- Currently there are more than 12 000 images displayed on the Seeds of South Australia website (saseedbank.com.au) compared with 5000 images last year, and information for over 2369 species compared with 1700 species last year.
- Over 12 000 visits to the Seeds of South Australia website.
- New germination research undertaken at the South Australian Seed Conservations Centre including testing different methods of germination of threatened orchids in partnership with Royal Botanic Gardens, Cranbourne, Kildare College, Adelaide & Mount Lofty Ranges Natural Resources Management, and Native Orchid Society of South Australia
- Two flowerings of the iconic plant species, the Corpse Flower (Titan arum) on two occasions, after over a decade of research and propagation.
- The Corpse flower events:
 - Attracted over 16 000 people to the Gardens;
 - Attracted over 150 000 views of the timelapse footage on the Gardens YouTube Channel; and
 - Attracted more than two million views (with Gardens and Government branding) around the world on the account of *Business Insider* page alone
- Sixteen new weed records for South Australia were detected, bringing the total found to 242 species since 2009, when the *Regional landscape surveillance for new weed threats* project commenced
- More than 1.195 million page views on the Electronic Flora of South Australia website, *eFloraSA* (flora.sa.gov.au), making it the main access point for information provided by the State Herbarium
- More than 23.7 million downloads of State Herbarium specimen records through Australia's Virtual Herbarium
- Over 6500 views of blog posts published by the State Herbarium.

The Botanic Gardens and State Herbarium is 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, buildings 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.

South Australian Seed Conservation Centre

The South Australian Seed Conservation Centre (SASCC) safeguards plant species from extinction through seed banking for long term, low temperature storage.

In 2015-16 the percentage of threatened plant species conserved ex-situ reached 71% compared to 67.5% in the previous year. Over 90 seed collections were made, including 29 species endemic to South Australia and 40 threatened species. The collections were made during field trips to the Kangaroo Island, Lake Eyre, the South East, Murray, Northern and Southern Lofty Regions.

very small and rare *Goodenia anfracta*, and the mound spring bindyi (*Sclerolaena fontinalis*).

The Seeds of South Australia website (saseedbank.com.au) is a compilation of data gathered through field work and seed research undertaken at the SASCC and new data has been added to the site. Currently there are more than 12 000 images displayed compared with 5000 images last year, and information for over 2369 species compared with 1700 species last year. During this time the site has had over 12 000 visitors. Recent changes to the website include the addition of species occurrence and status in the Interim Biogeographic Regionalisation for Australia (IBRA) subregions and external links to the Australian Virtual Herbarium (AVH) Distribution Map and the State Herbarium Plant Census. Some of the Flora 5 treatments have been converted from PDF to HTML format and linked to the site. The Board acknowledge Rex Croft for assistance with IT, and Thai Te and Denzel Murfett for loading information and images.



Grevillea lavandulacea ssp. *rogersii*



Ptilotus aristatus var. *eichlerianus*



Nicotiana burbidgei

Some of the field trip highlights included three trips to Kangaroo Island, where collections were made from threatened species that are endemic to the Island. A total of 34 species were collected including several from the genera *Pultenaea*, *Grevillea* and *Spyridium*. A field trip was undertaken to collect seeds from rare plants and species endemic to the mound spring complex at Dalhousie springs on the edge of the Simpson Desert. Seed collections were made from 13 species from this region including the Witjira tobacco bush (*Nicotiana burbidgeae*), pink pussy-tails (*Ptilotus aristatus* ssp. *aristatus*), the

Special thanks also go to Antony and Mary Lou Simpson, the CMV Foundation and Fiona MacLachlan for their generous philanthropic support of this work.

New germination research undertaken at the SASCC included testing different methods of germination of threatened orchids in partnership with Dr Noushka Reiter (Royal Botanic Gardens, Cranbourne), Kildare College, Adelaide & Mount Lofty Ranges Natural Resources Management, and Native Orchid Society of South Australia. A new shade house was purchased for growing

threatened orchids for translocation. This research has initially focussed on five orchids that are endangered and endemic to the Adelaide Mount Lofty Ranges (AMLR) region.

The SASCC is a partner in the Australian Seed Bank Partnership (ASBP), a national effort to conserve Australia's native plant diversity through collaborative and sustainable seed collecting, banking, research and knowledge sharing. The first ASBP National Seed Science Forum was held in March 2016 at Plant Bank, Mt Anan and staff attending contributed posters and oral presentations.

Germination research for a range of difficult to propagate species was conducted for externally funded research projects. Species from several families including Cyperaceae, Epacridaceae, Liliaceae, Santalaceae and Dilleniaceae were tested to find methods of alleviating dormancy so that these species can be propagated more readily through seed and be used more frequently in revegetation programs. This work has been supported by Coorong, Lower Lakes and Murray Mouth, Adelaide and Mount Lofty Ranges Natural Resources Management, Hillgrove Resources and the Native Vegetation Council.

This year the SASCC also assisted restoration programs for SA Water by conducting soil seed analyses, seed biology studies and propagation of rare plants for seasonally inundated areas in AMLR. Other fee for service work included seed soil analyses for Iluka Resources and seed testing for Landcare Australia and Barron Environmental.

The South Australian Seed Conservation Centre acknowledges each of the volunteers who have collectively given over 1500 hours of their time to support the program.

Flowering of the *Amorphophallus titanum* (Titan arum)

The *Amorphophallus titanum* is possibly one of the most iconic plant species for botanic gardens around the world. The Botanic Gardens of South Australia were donated five seeds in 2006. With its flower growing up to three metres high, the Titan arum is endemic to the Sumatran rainforest and it's truly a wonder of the natural world.

There are three major reasons the Titan arum has become the 'rockstar' of the plant world:

1. The flower's height – it's one of the largest in the world – combined with its giant yellow phallic spike (called a spadix) and its upturned burgundy skirt (spathe), make the Titan arum flower an imposing sight.
2. The rarity and fleetingness of flowers in cultivation. It can take 10 years for a Titan arum to flower from seed, even in optimum conditions, and when it does flower it'll only stay open for around 36 to 48 hours before collapsing in a heap.
3. It's smell. Likened to that of rotting flesh, the Titan arum has earned the nickname, the 'Corpse Flower' in Indonesia. Its signature stench is to attract pollinators in the wild.

There are other reasons, such as its rapid growth; the largest corms in the world – which can grow more than 100 kilograms; and its fascinating life cycle, but the above three are the big ticket items.

The result of a decade of hard work and innovative propagation work from the staff in the Mount Lofty Botanic Garden Nursery is that – aside from much publicised efforts to cultivate two flowers – the Gardens now have another seven large plants close to flowering size, and over 100 Titan arum plants in total. This constitutes one of, if not the, biggest Titan arum collections in Australia, and possibly the world.



The Mount Lofty Botanic Garden flowering of Indah the Corpse Flower



Horticulture Curator Plant Propagation Matt Coulter with Indah before flowering



The pollen being released from inside the Corpse Flower



Crowds gather for the flowering of Ganteng in the Bicentennial Conservatory

The two flowering events (Indah on 29 December 2015 at Mount Lofty and Ganteng on 1 February 2016 in Adelaide) allowed the Gardens to engage with the public – fulfilling a core reason to exist as an organisation, which is to connect people with plants.

Over the 27 hours, the two flowering events:

- Attracted over 16 000 people to the Gardens.
- Attracted over 1200 subscribers to the Gardens e-Newsletter.
- Increased Facebook page likes by about 1200 each flowering, helping the Gardens to leapfrog Royal Botanic Gardens Victoria and National Parks SA on total likes.
- Increased social media reach significantly. On the day of the flowering at Mount Lofty alone Gardens' Facebook posts reached 36,000 people, compared to 1,000-4,000 on an average day. Audience engagement with was up by about 750% with Ganteng), which included over 1,000 comments and 750 shares.
- Attracted a global audience through Twitter re-tweets, driving seven times more traffic than usual to the @BotGardensSA page. A 9am tweet showing the first glimpse of Indah earned 9,791 impressions alone.
- Attracted over 135 000 views of Indah's timelapse video in just a week (with viewers across 94 countries). The video subsequently garnered a further 10 000.
- Attracted more than two million views (with Gardens and Government branding included) around the world on the account of the *Business Insider* page alone.
- Continued increase in BGSA website traffic indicating the public's increased awareness of the Gardens and its work. Thanks to the Titan arums. Last year we averaged about 8500 total page views per week. Since Indah's flowering in December we have averaged around 14 000 page views a week.
- Garnered significant media attention from mainstream markets that have traditionally been difficult to enter. Global giants such as *BBC, CNN, Guardian, BuzzFeed, Huffington Post, MTV, Vice, Pedestrian TV* all covered the event. Media outlets from Brisbane to Bangladesh also covered the news (e.g. *The Australian, The Times, Metro, The Hindu, Asian Correspondent, Latin American Tribune, New Kerala, etc.*), on top of persistent coverage from all of SA's major media outlets across every platform.

Donation boxes were set up during both events, with the public encouraged to donate, (though not required). The public's support was astounding with almost \$10 000 raised to help continue the important conservation work with the Titan arum and other endangered 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 across all aspects of its business (collections, educations, science and visitor experience).

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.

The Botanic Gardens of South Australia are the only cultural institution outside of the United States to have earned this accreditation.

Herbarium Information Management System upgrade

The ongoing development of a new Herbarium Collections Management system, underpinned by an upgraded database and implementing new herbarium work practices, has moved into a new phase. Staff are now starting to explore the capacity to enter data directly from data files using records provided by other institutions or field collector records. This will make the task of maintaining and updating specimen records easier and all staff will be able to contribute. The current outdated system is a significant bottleneck to providing herbarium specimen data externally. The implementation of the new data management system opens opportunities for innovation in sharing of specimen records, which provides the basis for species distribution maps across Australia.

Weeds detection and research initiatives

The State Herbarium's externally-funded project 'Regional landscape surveillance for new weed threats' has been running since 2009 and continued to receive support this financial year. Early detection has the potential to save our agricultural industry millions of dollars by effectively targeting and eliminating weeds before they have become widespread.

The project is funded from a number of sources within and outside of the Department reflecting its importance and track record in the early detection of new and emerging weed threats. The funding aids the Herbarium in providing field surveillance and the rapid identification of specimens as well as training in weed identification and specimen collecting for regional government and non-government agencies and farmers with an interest in weeds. Much of the funding is used to support a Weeds Botanist position at the Herbarium.

The continuity of funding has provided an invaluable opportunity for the State Herbarium to strengthen its capacity and expertise in weed-related discovery and research and to update the *Census of South Australian Vascular Plants* with a more accurate representation of the current status of the State's weeds.

Significant support was received from the State Natural Resource Management Program, the Department of Primary Industries and Regions SA (PIRSA) Biosecurity SA and Natural Resource Management Regions Adelaide and Mt Lofty Ranges, South East and Eyre Peninsula.

In the 2015-16 financial year 16 new weed records for the State were detected, bringing the total found to 242 species since 2009 when the project commenced.

PIRSA's Biosecurity SA also approached the State Herbarium to help investigate issues and potential threats around the proposed introduction of a biological control for the serious agricultural weed, silverleaf nightshade, *Solanum elaeagnifolium*. Silverleaf nightshade, which originates in the Americas, is one of the world's worst weeds of arable land and occurs in many countries. It is also one of Australia's major agricultural weeds and was recently listed as one of twelve new Weeds of National Significance. It has the potential to invade the entire mainland cereal cropping belt of southern Australia and is currently spreading in farming areas of South

Australia, Victoria, New South Wales and Western Australia. It is now costing farmers \$70 million annually and there are currently no economic options available to control it. Biological control in the form of a leaf-eating beetle is now being considered as a last resort.

Silverleaf nightshade is in the Solanaceae family, which also includes some of the world's major agricultural crop species including potatoes, tomatoes, capsicums and egg-plants. Australia also has many native species in the same family, including many 'bush tomatoes' that are closely related to silverleaf nightshade. State Herbarium Honorary Research Associate, Dr Laurie Haegi, is a national authority on Australian Solanaceae, and has been specifically engaged to provide his expertise. Dr Haegi and other Herbarium staff have begun looking at the relatedness of native *Solanum* species to the introduced nightshade to determine the risks of the biological control agent attacking species other than the intended host.

Herbarium data use

The State Herbarium presents data and information on various websites. General information on the Herbarium, as well as books and the new edition of *Flora of South Australia* is presented on the DEWNR website (environment.sa.gov.au), with about 3993 visits logged during the financial year, viewing 11 723 web-pages. *The Journal of the Adelaide Botanic Gardens* and other Herbarium publications are available on EnviroDataSA (data.environment.sa.gov.au). It attracted 522 visits and 4068 page views, most of which were from within DEWNR. The *Journal* is also available through JSTOR (jstor.org) to institutional libraries around the world, where 1800 views of journal articles and downloads were recorded.

The most accessed Herbarium web-site is eFloraSA (flora.sa.gov.au) which presents information on South Australia's plants, namely the *Census of South Australian Plants, Algae & Fungi* and fact-sheet with descriptions of species in the State (derived from the last, 4th edition of *Flora of South Australia*): 189 647 visits to the eFloraSA website were counted during 2015-16 and over 1.195 million pages were viewed, which is an increase in page views of 3.6% from 2014-15.

State Herbarium specimen data is available through the Australian Virtual Herbarium and the Atlas of Living Australia (ala.org.au), and shared with the world through the Global Biodiversity

**State Herbarium Collection figures -
three year summary and average of those three years**

State Herbarium Function	2015-16	2014-15	2013-14	Average
Specimens identified [est.] (determined/confirmed)*	3100	2700	3500	3100
Specimen Nomenclature updated* [est.]	1900	800	900	1200
Specimens mounted	3034	3493	4548	3692
Database additions	3929	2997	4547	3824
Total in specimen database ADHERB	734 400	730 559	727 556	N/A
AD specimens sent on loan	531	1491	1082	1035
AD specimens returned from loan	499	505	1382	795
Incoming loan specimens received	185	271	195	217
Incoming loan specimens returned	532	634	394	520
Exchange specimens sent	1801	1764	3042	2202
Exchange specimens received	1243	925	1183	1117
Specimens added to the collections	3956	4438	4977	4457
Estimated total specimens in State Herbarium collection [^]	1 046 250	1 040 250	1 034 900	N/A
Estimated replacement value of the State Herbarium collection	\$74 118 439	\$71 475 701	\$69 396 277	N/A
Calculated value per specimen	\$70.84	\$68.71	\$67.06	N/A

* This partially reflects the identification and validation activity linked to the specimen data capture, rather than those specimens distributed to staff for identification. Thus it also reflects specimens returned from loans that have been identified by the researcher.

[^] Based on Collection estimates at end May 2016

information Facility (gbig.org). Data for 729,446 specimens is currently available on AVH/ALA. During 2015-16, 23.7 million specimen records were downloaded through 26 756 sessions. JSTOR Global Plants (plants.jstor.org) presents images of 3042 type specimens to the world.

The blog of the Friends of the State Herbarium informs Herbarium volunteers and the general public about the activities of the State Herbarium; 48 blog posts were written during the year and viewed more than 6500 times.

Leadership role in developing a national decadal plan for the Biological Collections Community

Nationally, the Flora and Fauna Collections community, in particular those who work in Herbaria and Museums are working towards establishing the enduring value and importance of biosystematics and taxonomy for government, industry and the community. The development of the plan aims to set out a big-picture vision for progress over the next decade, and develop a

detailed roadmap for implementing that vision. In particular of relevance to state institutions such as the State Herbarium of South Australia the process will outline funding strategies that will enable biosystematics and taxonomy in Australasia to flourish, and by flourishing to contribute to science, conservation and the community in Australasia and the world. Our herbarium are amongst the leaders of this initiative, Professor Michelle Waycott, Chief Botanist, representing the national herbarium community and Dr Bill Barker, Honorary Research Associate, contributing not only as a member of the leadership collective developing the plan, but being a motivating force behind the development of the plan.



Our organisation

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

2015-16 highlights

- In March, the Gardens reached five years with No Lost Time Injuries.
- In January 2016, 3 Botanic Gardens Trainees Graduated with a Certificate III in Horticulture.
- In September 2015 Botanic Gardens of South Australia's Trainee Tim Spurling was awarded 'Trainee of the Year' by the South Australian Training Awards.
- The State Herbarium has an active group of volunteers and Hon. Research Associates who contribute to the growth of new knowledge based on the Herbarium's collections and botanical knowledge.
- Development of a new partnership with Registered Training Organisation ARO Education to deliver a Certificate III in Horticulture.
- Six Master Classes were delivered to 101 people. 2015-16 topics included:
 - Introduction to Propagation;
 - Advanced Propagation;
 - Pruning for Fruit;
 - Economic Botany Today; and
 - The Art of Bonsai.
- Honorary Research Associate and State Mycology (fungi) expert, Pam Catcheside included on the State's Honour Roll for women who have made a significant contribution to the community.
- Completion and handover of the Chris Steele Scott OAM Visitor Pavilion at Mount Lofty Botanic Garden, demonstrating a successful and unique partnership between State Government, community groups and the general public in the delivery of an infrastructure project.
- The Honourable Jay Weatherill, Premier of South Australia launched Stage 2 of the project on Sunday 15 November 2015 before a gathering of 200 adults and children.
- Joint running of University undergraduate botany courses are being developed.

The Botanic Gardens and State Herbarium is a treasured South Australian asset and a leader in the fields of science, horticulture, and botanic expertise. Continuing and improving on 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 encourage the organisation to continue to seek the most efficient business technologies and processes to maintain effectiveness.

Volunteering

Existing and new volunteers provided support across the Botanic Gardens and State Herbarium, with the number of volunteer hours standing at 46 413 in 2015-2016, compared to 44 027 in 2014-2015. A full break-down of volunteer hours per activity is below.

Area of volunteer activity	Volunteer hours
Santos Museum of Economic Botany	1560
Mount Lofty Botanic Garden Nursery	1050
Botanic Gardens and State Herbarium Library	27
South Australian Seed Conservation Centre	1564
Rose Society in the International Rose Garden	300
Events (including Mount Lofty Garden Blitz)	1002
Corporate volunteering	120
Little Sprouts Kitchen Garden	388
Education at Adelaide Botanic Garden	650
Friends of the Botanic Gardens of Adelaide	26 309
Wittunga Hands on Hort Program	600
State Herbarium – General	4220
State Herbarium – Hon. Research Associates	8623
TOTAL	46 413

Volunteer activities included:

- Providing support through a full time presence in the Visitor Information Centre and North Lodge in Adelaide Botanic Garden
- Undertaking Guided Walks of Adelaide, Mount Lofty and Wittunga Botanic Gardens
- Garden upkeep and maintenance at the Wittunga Botanic Garden Blitz
- Providing support and assistance to visitors in the Santos Museum of Economic Botany
- Assisting with plant propagation and other horticultural duties in the Mount Lofty Botanic Garden Nursery
- Providing support for Adelaide Botanic Garden's staff in the International Rose Garden and Dahlia Collection
- Assisting with delivery of educational activities in the Little Sprouts Visiting Program and Schools Education Program
- Providing support for Wittunga Botanic Garden's staff through the Hands on Hort program
- Delivering school holiday program activities for school aged children
- Delivering activities for Botanic Gardens events.

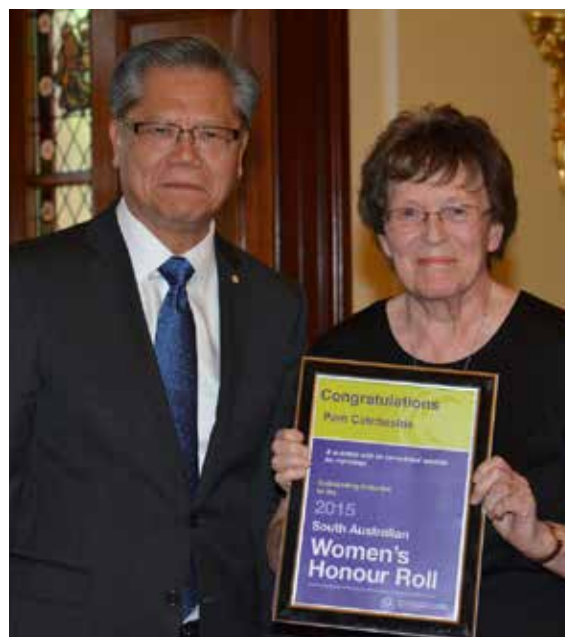
Without the support of volunteers, the quality of the work at the Botanic Gardens and State Herbarium would be greatly diminished.

Volunteers and Hon. Research Associates in the State Herbarium

The end of the financial year once again provides the opportunity to recognise and reflect on the huge contribution that the State Herbarium's

volunteers and Honorary Research Associates make to the success and reputation of our institution.

This financial year saw Honorary Research Associate and State Mycology (fungi) expert, Pam Catchside included on the State's Honour Roll for women who have made a significant contribution to the community. Pam was presented with her award at Government House in November by the State Governor, His Excellency the Honourable Hieu Van Le AC. Pam also shared her knowledge with the community by running a second very successful course in fungi identification.



The Governor of South Australia, His Excellency the Honourable Hieu Van Le AC with Pam Catchside

Dr Bill Barker retired as President of the Australasian Systematic Botany Society but continues to provide national leadership on research into the serious agricultural weed, branched broom-rape (*Orobancha ramosa*). Dr Hellmut Toelken and Dr Laurie Haegi contributed considerable expertise to other externally funded weed projects in involving introduced pigface (*Carpobrotus* species) and silverleaf nightshade (*Solanum elaeagnifolium*).

Dr John Jessop retired from the Herbarium after serving as both Chief Botanist from 1974-2002 and subsequently as an Honorary Research Associate.

An end of year celebration was held to thank volunteers and Honoraries for their contributions. Certificates and gifts were presented to volunteers to recognise their service and to acknowledge the close of the Herbarium's 60th anniversary celebrations.

Special mention must go to our longest serving volunteers; Thelma Hall (34 years), Rosemary Taplin (29 years), Rosemary Ferguson (19 years), Ronda Atkinson (16 years) and Margaret Callen (16 years).

The Australian Centre of Horticultural Excellence

The Australian Centre of Horticultural Excellence (ACoHE), is a strategic initiative of the Botanic Gardens of South Australia with a purpose to contribute to the development of a skilled workforce in the horticultural sector, and to connect people to plants by providing adult learning opportunities.

The training provides hands-on practical and work-ready experiences for students. The Gardens' unique and internationally recognised plant collections and experienced staff, coupled with training partners, has provided a strong foundation for the Centre as a world-class leader in the horticultural training industry.

In July 2015, the Botanic Gardens entered into a new partnership with Registered Training Organisation ARO Education to deliver a Certificate III in Horticulture. The program provides a combination of academic and practical training delivered by premier horticulturists and utilising world-class living collections within the gardens.

The Centre's Masterclass program for the general

public is continuing to prove popular in the community. Masterclasses 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 horticulture expertise and stay up-to-date with the latest techniques.

Topics covered in the 2015-16 series included the very popular Introduction to Propagation and Advanced Propagation, Pruning for Fruit, Economic Botany and The Art of Bonsai. All classes were well received with an overall satisfaction rating of 93% (student's ratings of very good to excellent). Six classes were held in the 2015-16 period with a total of 101 participants attending the highly-specialised classes.

The Masterclass schedule is expanding in the 2016-17 period and will incorporate a mix of past successful topics and new programs.

The Botanic Gardens of South Australia Traineeship program continues to provide exceptional educational and employment opportunities for Botanic Gardens trainees. Each Trainee completes a three year traineeship that incorporates the Certificate III in Horticulture and an opportunity to rotate through the world class living collections within the gardens at Adelaide, Mount Lofty and Wittunga.

To celebrate the completion of the 2016 Certificate III in Horticulture, graduates were invited to a ceremony in Adelaide Botanic Garden. Well-known media personality and horticulturist Kym Syrus was the guest MC and graduates and their guests celebrated their achievements.

In September 2015, Botanic Gardens of South Australia's Trainee Tim Spurling was awarded 'Trainee of the Year' by the South Australian Training Awards. This was quite an achievement and Tim impressed the judges with his accomplishments and his unwavering support for traineeships and vocational education and training.

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. Volunteers and

philanthropic support are critical to enhancing facilities and services provided by the Botanic Gardens and State Herbarium 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.

Major Partner

Government of South Australia
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Major Sponsors

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South Australian Seed Conservation Centre

SA Water
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Mount Lofty Botanic Garden
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The Board also works closely with State Government agencies, and acknowledges:

- DEWNR and the Department of Planning, Transport and Infrastructure (DPTI) for continued support, advice and assistance with the Board's capital works program
- The Department for Education and Child Development for supporting the schools outreach program

The Board also acknowledges the Mount Lofty Botanic Garden Support Group for their efforts in raising funds for the Chris Steele Scott OAM Visitor Pavilion.

Finally, the Board would like to acknowledge the Friends of the Botanic Gardens of Adelaide for both their financial contributions and the support they offer through their active volunteer programs. The Friends are tireless in their efforts and their dedication and commitment to the Gardens is extraordinary.

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.

Little Sprouts Kitchen Garden - Stage 2

The fundraising appeal for the Kitchen Garden building project was first launched in 2010 as a significant fundraising project for the Board and the Adelaide Botanic Gardens Foundation.

Given the challenges presented as a result of the Global Financial Crisis, fundraising proved somewhat difficult at times. The dream did, however, become a reality thanks to the support of generous donors and a major financial investment by the South Australian Government. The Honourable Jay Weatherill, Premier of South Australia launched Stage 2 of the project on Sunday 15 November 2015 before a gathering of 200 adults and children.

South Australian Seed Conservation Centre

South Australia's Seed Hunters have continued their crusade into saving South Australia's endangered flora from extinction. Thanks to the generosity of our sponsors, donors and supporters, the Seed Centre's research and conservation efforts can continue into the future.

The CMV Foundation's contribution to the Foundation allowed for the continuation to build the online collections of the Seeds of South Australia website (saseedbank.com.au)

The Foundation is grateful to Any and Mary Lou Simpson for their ongoing support to employ a part time microscopist Peter Hunt. Peter has made a significant contribution to the Seed Centre over the last year. The website has been steadily growing. In early 2015 the website listed information for approximately 1124 species. Statistics for the website include data for 554 genera and 2273 species with 12356 images (of approximately 4000 species of flora in SA).

New features on the website include a link for each species to the Australian Virtual Herbarium maps, an embryo chart describing the embryo types in seeds, a glossary of botanical terms used in Flora 5.0 that has interactive links to the word definitions, regional and subregional distribution and status for each species for the IBRA (Interim Biogeographic Regionalisation for Australia) subregions.

We are currently developing templates of annotated seed images for grass seeds to assist with identification, with the help of the SA 'grass expert' Rosemary Taplin. Rex Croft is the IT expert working on the website, he has written the code for the new features and also facilitated bulk image uploads and editing the page. He is currently developing a system to add the Flora 5.0 treatments so the latest botanical keys for plant identification will be built into the site.

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 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.

Chris Steele Scott OAM Visitor Pavilion

The fundraising appeal for the Mount Lofty Botanic Garden Visitor Pavilion project was first launched at the Stirling Library on Wednesday 4 December 2013. The Board and the Adelaide Botanic Gardens Foundation is grateful to the Mount Lofty Botanic Gardens Support Group for your tireless efforts and raising the \$315,000 required in cash and in kind support to build the Chris Steele Scott Pavilion. More than 130 donors contributed to this project. This is a remarkable achievement given the process from conception to completion was less than 2 years.

The development of the Visitor Pavilion is a significant achievement for Mount Lofty Botanic Garden because of the many organisations and individuals who made the construction of the Pavilion possible. This project is a terrific example of the community coming together and making things happen in consultation with government.

This project is the first of its kind where a community group has raised most of the funds and fully managed building works for a project on Crown land. It demonstrated a unique partnership between the Botanic Gardens of South Australia, the Government of South Australia, UniSA and the Mount Lofty Botanic Garden Support Group, in consultation with key stakeholders such as the Friends of the Botanic Gardens of Adelaide, and very importantly the Adelaide Hills Community.

Honourable Ian Hunter MLC, Minister for Sustainability, Environment and Conservation officiated the handover ceremony between the Mount Lofty Botanic Garden Support Group and the Adelaide Botanic Gardens Foundation and the Board of the Botanic Gardens and State Herbarium on Wednesday 11 November 2015. Minister Hunter said, 'Chris Steele Scott OAM – Chris's energy and commitment to the Mount Lofty Botanic Garden has made her vision into a reality. In acknowledgement of Chris's contribution to the Botanic Gardens of South Australia the Board has agreed to name the Visitor Pavilion the Chris Steele Scott Pavilion'.

The Board and the Foundation commend the tireless efforts of the Mount Lofty Botanic Garden Support Group led by the Honourable David Wotton AM and to acknowledge David Gilbert's commitment as Deputy Chair, lead architect and project manager for ensuring the pavilion building project ran on time and on budget.

The Board and the Adelaide Botanic Gardens Foundation acknowledge the very generous support of all of our donors including:

- Nigel Steele Scott and his family
- The Thyne-Reid Foundation
- Fiona MacLachlan OAM
- The Friends of the Botanic Gardens of Adelaide

The Board and Foundation also acknowledge the remarkable in-kind support provided by:

- David Gilbert, Vice Chair of the Mount Lofty Botanic Gardens Support Group
- The University of South Australia – School of Art, Architecture and Design, and especially student Sam Chua and lecturer Damian Madigan, who worked through the design phase with 100 students
- Rider, Levitt and Bucknall - Quantity Surveyors
- George and Sandra Lucey and their son Adam from Ashford Group. Adam had the building licence to oversee the construction of the project and arranged for the initial earth works, footings and external wall.
- Wallbridge and Gilbert - Consulting Engineers
- Fyfe Surveyors

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Ms Jan Angas (Deputy Chair)
Mr James Allen (Treasurer)
Mr Stephen Couche
Mr Angus Irwin
Mr Bodo Jensen (President, Friends of the Botanic Gardens of Adelaide)
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Bromeliad Society of SA Inc
Camellias South Australia
Herb Society of SA Inc
Salisbury Garden Club
Willunga Garden Club

State Herbarium

State Herbarium Honorary Research Associate Pam Catcheside was invited to Government House in November to celebrate her inclusion in the 2015 South Australian Women's Honour Roll. The South Australian Women's Honour Roll pays tribute to SA women who have made an outstanding contribution to our community. The 2015 Honour Roll was launched by the Hon Gail Gago MLC, Minister for the Status of Women, and the individual awards presented by the Governor, His Excellency the Honourable Hieu Van Le AC. In 2015, 30 women were included in the Honour Roll.

The award recognises Pam's outstanding contribution in the field of mycology, ranging from the collection and observation of fungi in the field to the detailed examination & description of specimens and the publication of her results; the honour also recognises the fact that she is South Australia's only official mycologist, filling a void in a significant area of South Australia's biodiversity knowledge, as well as her dedication to volunteers and to making the information accessible to the community. Pam's listing on the Honour Roll also means that she is automatically nominated in the 2017 Australian of the Year Awards. This is a significant high-profile achievement for Pam Catcheside, DEWNR and the State Herbarium.

The Board also acknowledges the contribution made by Dr John Jessop to the State Herbarium of South Australia with his retirement in late 2015 as an Honorary Research Associate. John contributed to the State Herbarium firstly as the Chief Botanist, arriving from South Africa in 1974, and after his retirement in 2002, as an Honorary Research Associate.

John made major contributions to the field of taxonomic botany in this State as well as nationally and internationally. As Chief Botanist he oversaw a period of major change to the Herbarium, expanding its staff and resources as well as increasing its research output and publications. In addition John took advantage of new technology and helped modernise the Herbarium.

Publication of research and flora documentation was a strong priority for John, who oversaw the foundation of the Journal of the Adelaide Botanic Gardens and continually drove large publication projects such as the third edition of Flora of South Australia (1978, volume 1 only),

the Flora of Central Australia (1981), the four-volume fourth edition of Flora of South Australia (published under considerable pressure for the State's 150th anniversary in 1986) and the Plants of the Adelaide Plains and Hills (first published 1990 and currently on its third edition); centred around illustrations of Gilbert Dashorst.

John's significant contribution to the Herbarium, but also to the wider world of botanical research, especially regarding monocot groups and production of significant flora treatments, cannot be denied. John's depth of botanical knowledge and contributions will be missed.

O-Bahn City Access Project

Early 2016 saw the commencement of siteworks for the construction of tunnels for the O-Bahn City Access Project and a sweeping redesign of traffic and pedestrian access along Hackney Road to accommodate this. The project is due for completion in late-2017 and affects the Botanic Gardens and State Herbarium in some ways.

The Board and staff have worked closely with the Department of Planning, Transport and Infrastructure to ensure that the project works will have minimal impact on Adelaide Botanic Garden, Botanic Park and the State Herbarium. The project is also paving the way for a complete redevelopment of the Goodman Building Plaza and car park, improving the visual amenity of the Hackney Road entrance with the development of a purpose-built plaza featuring collections of plants native to South Australia, and newly landscaped car parking highlighting contemporary rain gardens.

The open-plan office space at the western end of level one of the Tram Barn was vacated by the end of January to accommodate engineers and contractors from DPTI and affiliated companies working on the O-Bahn City Access Project.

The Tram Barn houses two quarantine areas – the State Herbarium vaults and the Herbarium and Botanic Gardens Library is a quarantine area in order to protect their priceless collections and the Australian Centre for Ancient DNA laboratory is a high level quarantine zone. Positive negotiations between DPTI and the Board working compromises that enabled the O-Bahn teams to access their section of the Tram Barn without compromising the quarantine integrity and security of the rest of the building.

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 2015-16 Annual Report.

The Botanic Gardens and State Herbarium raised awareness of Workplace Health 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 LTI's.

Botanic Gardens and State Herbarium Operations were audited for compliance in 2015-16 and no significant issues were identified. Site Workplace Health and Safety Committees continue to meet quarterly, with additional toolbox discussions and staff forums held to discuss any pressing matters.

Number of days since LTI as of 30 June 2016

Site	Days	Date of last incident
Adelaide Botanic Garden	1922	27 March 2011
Mount Lofty Botanic Garden	2417	17 November 2009
Wittunga Botanic Garden	4635	22 October 2003
Plant Biodiversity Centre	3803	31 January 2006

Emergency Preparedness and Response

Botanic Gardens and State Herbarium Business Continuity and Response plans have been reviewed and updated as required. A Mount Lofty Botanic Garden Fire Response Plan for non-closure fire ban days has been developed and implemented.

The Botanic Gardens Severe Weather Closure Policy and Mount Lofty Botanic Garden Response to Fire Danger Rating 50+ policy have been reviewed by site committees and continue to operate efficiently.

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.

Role, Legislation and Structure

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 Minister pursuant to Section 7 of the Act. As of 30 June 2016 Board membership was as follows:

Presiding member

Judith Potter

Members

Rob Di Monte
Christine Elstob
Lily Jacobs
David Knox
Anne Levy AO
Jamie Restas
Ian Stirling

Meetings: General and Special

A total of seven Board meetings were held during the 2015-16 financial year. One special Board meeting was held during the 2015-16 financial year.

Attendance by appointed members at meetings:

Member	Attendance (from 8)
Judith Potter	8
Rob Di Monte	7
Christine Elstob	6
Lily Jacobs	8
David Knox	7
Anne Levy AO	7
Jamie Restas	7
Ian Stirling	5

The Board's Finance and Risk Management Committee, chaired by Rob Di Monte, met once during the 2015-16 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 2015-16.

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 2015-16.

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 2015-16:

- Workforce Diversity
- Workplace Adaptation
- Executives
- Leave Management
- Performance Development
- Leadership and Management Development
- Employment Opportunity Programs
- Work Health and Safety and Injury Management
- Reporting Against the *Carers Recognition Act 2005*
- Disability Access and Inclusion Plans
- Government Buildings Energy Strategy
- Public Complaints
- Sustainability Reporting
- Financial Performance
- Account Payment Performance.

Contractual Arrangements

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

Fraud

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 2015-16.

Consultants

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

Overseas Travel

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

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

Urban Design Charter

No events occurred in 2015-16 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

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 to view the FOI statement.

Whistleblowers Protection Act 1993

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 2015-16 financial year.

Regional Impact Assessment Statements

The Board of the Botanic Gardens and State Herbarium did not undertake any regional Impact Assessment Statements during the 2015-16 financial year.

Reconciliation Statement

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

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 2015-16 financial year.¹

Financial Report

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 2015-16.

Additional Comments on the Annual Financial Statements

Please refer to Appendix 10 for additional comments on the Annual Financial Statements.

¹ During the 2015-16 financial year, the Adelaide Botanic Gardens Foundation received sponsorship support from Santos and ElectraNet.

Annual Financial Statements for the year ended 30 June 2016

Board of the Botanic Gardens and State Herbarium

For official use only



Government of South Australia
Auditor-General's Department

Our ref: A16/026

30 September 2016

Ms J Potter
Chair
Board of the Botanic Gardens and State Herbarium
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Dear Ms Potter

**Audit of the Board of the Botanic Gardens and State Herbarium
for the year to 30 June 2016**

We have completed the audit of your accounts for the year ended 30 June 2016. Three key outcomes from the audit are the:

- 1 Independent Auditor's Report on your agency's financial report
- 2 opinion on your financial controls
- 3 audit management letters.

1 Independent Auditor's Report

We are returning the financial statements for the Board of the Botanic Gardens and State Herbarium, with the Independent Auditor's Report. This report is unmodified.

2 Opinion on financial controls

In my opinion, the controls exercised by the Board of the Botanic Gardens and State Herbarium in relation to the receipt, expenditure and investment of money, the acquisition and disposal of property and the incurring of liabilities are sufficient to provide reasonable assurance that the financial transactions of the Board of the Botanic Gardens and State Herbarium have been conducted properly and in accordance with law.

3 Audit management letters

As the audit did not identify any significant matters requiring management attention, we will not issue any audit management letters.

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What the audit covered

Our audit covered the principal areas of the agency's financial operations and included test reviews of systems, processes, internal controls and financial transactions. Some notable areas were:

- revenue
- accounts payable
- property, plant and equipment
- financial accounting – general ledger.

Our audits meet statutory audit responsibilities under the *Public Finance and Audit Act 1987* and the Australian Auditing Standards.

I would like to thank the staff and management of your agency for their assistance during this year's audit.

Yours sincerely



Andrew Richardson

Auditor-General

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To the Chair
Board of the Botanic Gardens and State Herbarium

As required by section 31(1)(b) of the *Public Finance and Audit Act 1987* and 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 2016. The financial report comprises:

- a Statement of Comprehensive Income for the year ended 30 June 2016
- a Statement of Financial Position as at 30 June 2016
- a Statement of Changes in Equity for the year ended 30 June 2016
- a Statement of Cash Flows for the year ended 30 June 2016
- notes, comprising a summary of significant accounting policies and other explanatory information
- a Certificate from the Deputy Chair on behalf of the Chair, Board of the Botanic Gardens and State Herbarium, and the Acting Director, Botanic Gardens and the Chief Financial Officer of the Department of Environment, Water and Natural Resources.

The Board's responsibility for the financial report

The Members of the Board are 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 Members of the Board determine is necessary to enable the preparation of 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.

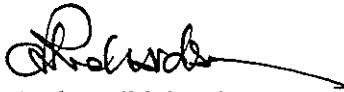
An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial report. The procedures selected depend on the auditor's judgement, including the assessment of the risks of material misstatement of the financial report, whether due to fraud or error. 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 Members of the Board, as well as evaluating 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.

My report refers only to the financial statements described above and does not provide assurance over the integrity of publication of the financial report on websites nor does it provide an opinion on any other information which may have been hyperlinked to/from these statements.

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 2016, 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.



Andrew Richardson
Auditor-General
30 September 2016

Board of the Botanic Gardens and State Herbarium

Financial Statements

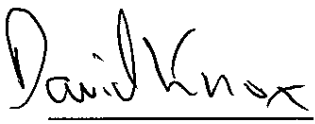
For the year ended 30 June 2016

Board of the Botanic Gardens and State Herbarium Certification of the Financial Statements

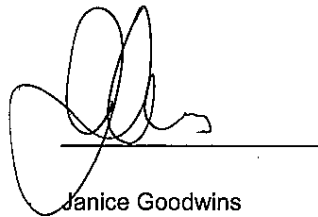
We certify that the attached general purpose financial statements for the Board of the Botanic Gardens and State Herbarium:

- comply with 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 2016 and the results of its operations and cash flows for the financial year.

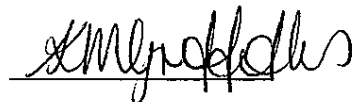
We certify that the internal controls employed by the Board of the Botanic Gardens and State Herbarium for the financial year over its financial reporting and its preparation of the general purpose financial statements have been effective throughout the reporting period.



David Knox
On behalf of
Chair
Board of the Botanic
Gardens and State
Herbarium
30/09/2016



Janice Goodwins
Acting Director
Botanic Gardens
Department of Environment,
Water and Natural Resources
30/09/2016



Michelle Griffiths
Chief Financial Officer
Department of Environment,
Water and Natural Resources
30/09/2016

Board of the Botanic Gardens and State Herbarium
Statement of Comprehensive Income
for the year ended 30 June 2016

	Note	2016 \$'000	2015 \$'000
Expenses			
Board member	5	126	119
Supplies and services	6	689	766
Depreciation	7	1 948	1 593
Grants and subsidies	8	801	916
Other	10	37	25
Total expenses		3 601	3 419
Income			
Fees and charges	11	1 423	1 233
Grants	12	253	224
Interest	13	52	63
Resources received free of charge	14	1 440	10 270
Net gain from disposal of non-current and other assets	9	-	4
Other	15	77	265
Total income		3 245	12 059
Net cost of / (benefit from) providing services		356	(8 640)
Net result		(356)	8 640
Total comprehensive result		(356)	8 640

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 2016

	Note	2016 \$'000	2015 \$'000
Current assets			
Cash and cash equivalents	16	2 566	2 491
Receivables	17	190	124
Inventories	18	69	78
Total current assets		2 825	2 693
Non-current assets			
Property, plant and equipment	19	48 542	49 050
Total non-current assets		48 542	49 050
Total assets		51 367	51 743
Current liabilities			
Payables	20	81	101
Total current liabilities		81	101
Total liabilities		81	101
Net assets		51 286	51 642
Equity			
Asset revaluation surplus		9 300	9 300
Retained earnings		41 986	42 342
Total equity		51 286	51 642
The total equity is attributable to SA Government as owner			
Unrecognised contractual commitments	22		
Contingent assets and liabilities	23		

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 2016

		Asset		
		Revaluation	Retained	Total equity
	Note	Surplus	Earnings	\$'000
		\$'000	\$'000	\$'000
Balance at 30 June 2014		9 300	33 860	43 160
Net result for 2014-15		-	8 640	8 640
Total comprehensive result for 2014-15		-	8 640	8 640
Balance at 30 June 2015		9 300	42 500	51 800
Error correction - property, plant and equipment	2(k)	-	(158)	(158)
Restated balance at 30 June 2015		9 300	42 342	51 642
Net result for 2015-16		-	(356)	(356)
Total comprehensive results for 2015-16		-	(356)	(356)
Balance at 30 June 2016		9 300	41 986	51 286

All changes in equity 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 Cash Flows
for the year ended 30 June 2016

	Note	2016 \$'000	2015 \$'000
Cash flows from operating activities			
Cash outflows			
Board member payments		(126)	(119)
Payments for supplies and services		(709)	(1 009)
Payments for grants and subsidies		(801)	(916)
Other payments		(28)	(30)
Cash used in operations		(1 664)	(2 074)
Cash inflows			
Fees and charges		1 357	1 145
Receipts from grants		253	224
Interest received		52	66
Other receipts		77	265
Cash generated from operations		1 739	1 700
Net cash (used in)/provided by operating activities		75	(374)
Cash flows from investing activities			
Cash outflows			
Purchase of property, plant and equipment		-	(45)
Cash used in investing activities		-	(45)
Cash inflows			
Proceeds from sale of property, plant and equipment		-	4
Cash generated from investing activities		-	4
Net cash used in investing activities		-	(41)
Net increase/(decrease) in cash and cash equivalents		75	(415)
Cash and cash equivalents at the beginning of the period		2 491	2 906
Cash and cash equivalents at the end of the period	16	2 566	2 491

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 2016

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 Board, on behalf of the South Australian community, has stewardship for the lands and premises placed under the control of the Board.

The objectives of the Board are to ensure the maintenance and development of the South Australian Botanic Gardens and State Herbarium, for the use and enjoyment for members of the public as well as supporting scientific research and educational activities.

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 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 27.

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 financial statements have been prepared 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 (Reduced Disclosure Requirements) 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.

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. The 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

Board of the Botanic Gardens and State Herbarium Notes to and forming part of the financial statements for the year ended 30 June 2016

2 (b) Basis of preparation (continued)

- 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) expenses incurred as a result of engaging consultants
 - (b) board member and remuneration information, where a board 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 12 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 2016 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 2016

2 Summary of significant accounting policies (continued)

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 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 that is 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.

Gain from disposal of 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/Losses 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 be 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.

Board of the Botanic Gardens and State Herbarium
Notes to and forming part of the financial statements
for the year ended 30 June 2016

2 (i) Expenses (continued)

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.

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 as follows:

Class of Asset	Useful Life (years)
Park Infrastructure	6-60
Plant and Equipment	3-20
Roads, Tracks and Trails	6-35
Furniture and Fittings	10
Buildings and Improvements	15-80
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.

j) Current and non-current classification

Assets and liabilities are characterised as either current or non-current in nature. Assets and liabilities that are to be sold, consumed or realised as part of the normal operating cycle even when they are not expected to be realised within 12 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.

Board of the Botanic Gardens and State Herbarium
Notes to and forming part of the financial statements
for the year ended 30 June 2016

2 (k) Assets (continued)

Cash and cash equivalents

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

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.

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 after allowing for 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.

Board of the Botanic Gardens and State Herbarium Notes to and forming part of the financial statements for the year ended 30 June 2016

2 (k) Assets (continued)

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 six years, the Board revalues its books and artefacts, land, buildings and improvements, park infrastructure and roads, tracks and trails via a (an independent/non-independent) 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 six 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 five 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 are as follows:

- 1 July 2011, valuation of data dictionary: buildings, infrastructure and roads, Valcorp Australia Ply Ltd, Mr F. Taormina, BAppSc (Val), AAPI
- 1 July 2011, valuation of land and unique items, 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 AAADAŸ
 - Fine Art Collections and Artefacts, Anthony Hurl, BA, MSAA, MAASA, CINOA, 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 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 revaluation surplus to the extent of the credit balance existing in the revaluation surplus for that asset class.

Board of the Botanic Gardens and State Herbarium
Notes to and forming part of the financial statements
for the year ended 30 June 2016

2 (k) Assets (continued)

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.

Restrictions on use - land

Section 14 of the Act 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. The recoverable amount is determined as the higher of the asset's fair value less costs of disposal and depreciated replacement cost. 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 revaluation surplus.

Error correction

An error correction of \$0.158 million has been disclosed in the Statement of Changes in Equity in respect of the 2014-15 financial year. The error correction has been retrospectively restated in accordance with *AASB 108 Accounting Policies, Changes in Accounting Estimates and Errors*, and comprises a net decrease to the carrying values of property, plant and equipment assets. The error correction relates to the de-recognition of motor vehicle assets.

Fair value measurement - 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 an estimated useful life that was less than three years are deemed to approximate fair value.

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.

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.

Board of the Botanic Gardens and State Herbarium
Notes to and forming part of the financial statements
for the year ended 30 June 2016

2 (l) Liabilities (continued)

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.

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 2015-16.

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 2016

5 Board member expenses

	2016	2015
	\$'000	\$'000
Board fees	105	105
Remuneration on-costs - superannuation	15	8
Remuneration on-costs - other	6	6
Total board member expenses	126	119

6 Supplies and services

	2016	2015
	\$'000	\$'000
Accommodation and property management	59	146
Contractors	-	3
Fee for service	262	337
General administration	47	108
Information technology & communication	1	1
Minor works, maintenance & equipment	306	161
Travel and accommodation	-	8
Other	14	2
Total supplies and services	689	766

7 Depreciation expense

	2016	2015
	\$'000	\$'000
Buildings and improvements	622	622
Park infrastructure	922	585
Roads, tracks and trails	155	115
Furniture and fittings	138	181
Plant and equipment	111	70
Vehicles	-	20
Total depreciation expense	1 948	1 593

8 Grants and subsidies

	2016	2015
	\$'000	\$'000
State Government	801	916
Total grants and subsidies	801	916

Board of the Botanic Gardens and State Herbarium
Notes to and forming part of the financial statements
for the year ended 30 June 2016

9 Net gain from the disposal of non-current assets

	2016 \$'000	2015 \$'000
Moveable vehicles		
Proceeds from disposal	-	4
Less: Net book value of assets disposed	-	-
Net gain from disposal	<u>-</u>	<u>4</u>
Total assets		
Proceeds from disposal	-	4
Less: Net book value of assets disposed	-	-
Net gain from disposal of non-current assets	<u>-</u>	<u>4</u>

10 Other expenses

	2016 \$'000	2015 \$'000
Movement in Inventory	8	(5)
Other (incl. audit fees)	29	30
Total other expenses	<u>37</u>	<u>25</u>

11 Revenues from fees and charges

	2016 \$'000	2015 \$'000
Admissions and guided tours	4	10
Expiation fees	199	161
Property rental and related income	315	257
Sale of goods	15	17
Car parking	653	664
Garden functions	237	124
Total revenues from fees and charges	<u>1 423</u>	<u>1 233</u>

12 Grant revenues

	2016 \$'000	2015 \$'000
Grants received from other entities within the SA Government	120	119
Private industry and local government	133	105
Total grant revenues	<u>253</u>	<u>224</u>

13 Interest revenues

	2016 \$'000	2015 \$'000
Interest on deposit accounts - from entities within the SA Government	52	63
Total interest revenues	<u>52</u>	<u>63</u>

Board of the Botanic Gardens and State Herbarium
Notes to and forming part of the financial statements
for the year ended 30 June 2016

14 Resources received free of charge

	2016	2015
	\$'000	\$'000
Park infrastructure	376	10 094
Roads, tracks and trails	596	162
Vehicles	-	14
Plant and equipment	468	-
Total resources received free of charge	1 440	10 270

During the current year, assets to the value of \$1.440 million (2015: \$10.270 million) was transferred from DEWNR to the Board of the Botanic Gardens and State Herbarium free of charge. Assets transferred in the current year related to the Adelaide Botanic Gardens Trade Entrance Bridge (\$0.123 million); Adelaide Botanic Gardens Air Conditioners Replacement (\$0.200 million); Adelaide Botanic Gardens Bamboo Walk (\$0.113m), Mt Lofty Botanic Gardens Class 1 Walk (\$0.391m); ABG – Economic Garden Path (\$0.085 million), and Plant Biodiversity Centre Gas Fire Suppression System and Annual Program Plant and Equipment (\$0.171 million), and others (\$0.357 million).

15 Other income

	2016	2015
	\$'000	\$'000
Salaries and wages recoveries	48	61
Sponsorships, donations, commissions and bequests	11	115
Other sundry revenue	18	89
Total other income	77	265

16 Cash and cash equivalents

	2016	2015
	\$'000	\$'000
Deposits with the Treasurer	2 566	2 491
Total cash and cash equivalents	2 566	2 491

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.

17 Receivables

	2016	2015
	\$'000	\$'000
Current receivables		
Receivables	185	119
Accrued revenues	5	5
Total current receivables	190	124

18 Inventories

	2016	2015
	\$'000	\$'000
Inventories held for resale - at cost		
Finished goods held for resale - at cost	69	78
Total inventories	69	78

Board of the Botanic Gardens and State Herbarium
Notes to and forming part of the financial statements
for the year ended 30 June 2016

19 Property, plant and equipment

	2016	2015
	\$'000	\$'000
Land		
Independent valuation ⁽ⁱ⁾	3 767	3 767
At cost ⁽ⁱⁱ⁾	750	750
Total land	4 517	4 517
Buildings and improvements		
Independent valuation ⁽ⁱ⁾	38 064	38 064
less accumulated depreciation	(17 782)	(17 160)
Total buildings and improvements	20 282	20 904
Park infrastructure		
Independent valuation ⁽ⁱ⁾	54 485	54 485
At cost ⁽ⁱⁱ⁾	12 362	11 996
less accumulated depreciation	(51 995)	(51 083)
Total park infrastructure	14 852	15 398
Roads, tracks and trails		
Independent valuation ⁽ⁱ⁾	3 659	3 659
At cost ⁽ⁱⁱ⁾	1 143	547
less accumulated depreciation	(3 247)	(3 092)
Total computing and communications equipment	1 555	1 114
Furniture and fittings		
At cost (deemed fair value) ⁽ⁱⁱⁱ⁾	1 794	1 794
Accumulated depreciation	(1 417)	(1 279)
Total furniture and fittings	377	515
Plant and equipment		
At cost (deemed fair value) ⁽ⁱⁱⁱ⁾	1 281	813
less accumulated depreciation	(684)	(573)
Total other	597	240
Other - books and artefacts		
Independent valuation ⁽ⁱ⁾	7 784	7 784
less accumulated depreciation	(1 422)	(1 422)
Total other	6 362	6 362
Total property, plant and equipment	48 542	49 050

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 cannot 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.

Board of the Botanic Gardens and State Herbarium
Notes to and forming part of the financial statements
for the year ended 30 June 2016

19 Property, plant and equipment (continued)

(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.

(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 2016.

Movement reconciliation of property, plant and equipment:

	Land \$'000	Buildings \$'000	Park infrastructure \$'000	Roads, tracks and trails \$'000
Carrying amount at the start of period	4 517	20 904	15 398	1 114
Assets received for nil consideration	-	-	376	596
Subtotal	-	-	376	596
Gains/(losses) for the period recognised in net result:				
Depreciation expense	-	(622)	(922)	(155)
Subtotal	-	(622)	(922)	(155)
Carrying amount at the end of the period	4 517	20 282	14 852	1 555

	Furniture and fittings \$'000	Plant and equipment \$'000	Other \$'000	Total \$'000
Carrying amount at the start of period	515	240	6 362	49 050
Assets received for nil consideration	-	468	-	1 440
Subtotal	-	468	-	1 440
Gains/(losses) for the period recognised in net result:				
Depreciation expense	(138)	(111)	-	(1 948)
Subtotal	(138)	(111)	-	(1 948)
Carrying amount at the end of period	377	597	6 362	48 542

20 Payables

	2016 \$'000	2015 \$'000
Current		
Accrued expenses	32	32
Creditors	49	69
Total current payables	81	101

Board of the Botanic Gardens and State Herbarium
Notes to and forming part of the financial statements
for the year ended 30 June 2016

21 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:

	2016	2015
	\$'000	\$'000
Books and publications	129	126
Garden improvements	1 748	1 758
Research	207	175
Other	452	503
Total restrictions on contributions received	2 536	2 562

22 Unrecognised contractual commitments

The Board had no unrecognised contractual commitments as at 30 June 2016. All capital commitments associated with the Board are managed by the Department of Environment, Water and Natural Resources and reflected in their financial statements.

23 Contingent assets and liabilities

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

24 Remuneration of board members

Members of the board during the 2015-16 financial year were:

Board of the Botanic Gardens & State Herbarium

Dimonte R

Elstob, C A

Howe, A D (retired 04/07/15)

Jacobs, L R G (appointed 07/07/15)

Jenkinson, H S (retired 04/07/15)

Knox, D J W

Levy, J A W

Potter, J *

Restas J (appointed 07/07/15)

Stirling I F

* Presiding Member

Board of the Botanic Gardens and State Herbarium
Notes to and forming part of the financial statements
for the year ended 30 June 2016

24 Remuneration of board members (continued)

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

	2016	2015
	\$'000	\$'000
The number of members whose remuneration received or receivable falls within the following bands:		
\$nil	2	-
\$10 000- \$19 999	7	7
\$20 000 - \$29 999	1	1
Total number of members	10	8

Remuneration of members reflects all costs of performing board 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 \$120 000 (2015: \$113 000).

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

25 Events after the reporting period

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

26 Financial instruments risk management/financial instruments

Financial risk management

Risk management is managed by the Board's corporate services section and Board risk management policies are in accordance with the *Risk Management Policy Statement* issued by the Premier and Treasurer and the principles established in the Australian Standard *Risk Management Principles and Guidelines*.

The exposure of the Board's funds to financial risk (liquidity, credit and market) is not significant based on past experience and current assessment of risk.

The Gardens is funded principally from appropriation by the SA Government. 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.

There have been no changes in risk exposure since the last reporting period.

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.

The carrying amounts of each of the following categories of financial assets and liabilities: receivables and payables measured at cost are detailed below.

Board of the Botanic Gardens and State Herbarium
Notes to and forming part of the financial statements
for the year ended 30 June 2016

26 Financial instruments risk management/financial instruments (continued)

Category of financial asset and financial liability	Notes	2016 Contractual maturities	
		2016	2015
		Carrying amount / Fair value / \$'000	Carrying amount / Fair value / \$'000
Financial assets			
Cash and cash equivalents	16	2 566	2 491
Receivables ⁽¹⁾	17	190	124
Total financial assets		2 756	2 615
Financial liabilities			
Payables ⁽¹⁾	20	52	71
Total financial liabilities		52	71

(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; Auditor-General's Department audit fees). 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 levies, tax and equivalents 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).

27 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.

	2016	2015
	\$'000	\$'000
Expenses from ordinary activities		
Employee benefits	5 372	5 317
Supplies and services	2 880	3 571
Grants and subsidies	167	119
Depreciation	278	290
Net loss/(gain) from disposal of non-current assets	1 440	10 270
Other	29	-
Total expenses from ordinary activities	10 166	19 567
Revenues from ordinary activities		
Fees and charges	74	93
Grant	1 037	1 180
Other	-	43
Total revenues from ordinary activities	1 111	1 316
Revenues from / payments to SA Government		
Revenues from SA Government	7 615	7 981
Total net revenues from SA Government	7 615	7 981
Net cost of activities undertaken by Department of Environment, Water and Natural Resources	(1 440)	(10 270)

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Appendices

Board of the Botanic Gardens and State Herbarium

Appendix 1 | Publications

Staff or associates assigned to the business of the Board are in **bold**. Publications in peer-reviewed journals are indicated with an asterisk.

*Ahmad B, Baider C, Bernardini B, **Biffin E**, Brambach F, Burslem D, Byng JW, Christenhusz M, Florens FBV, Lucas E, Ray A, Ray R, Smets E, Snow N, Strijk JS & Wilson PG (2016) *Syzygium* (Myrtaceae): Monographing a taxonomic giant via 22 coordinated regional revisions. *PeerJ Preprints* 4:e1930v1.

*Aleman R, **Jusaitis M**, Gibbs J, Ainsley P, Tiver F & Petit S (2015) Influence of seed dimorphism and provenance on seed morphology, dispersal, germination and seedling growth of *Brachycome ciliaris* (Asteraceae). *Australian Journal of Botany* 63(8): 705-713.

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Appendix 2 | Presentations

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Kanellos T (2015) History of 19th Century fruit models in the Santos Museum of Economic Botany. Masterclass presentation - Diggers Heirloom Festival. 9-10 April. Adelaide, SA

Kanellos T (2015) The collections project - In conversation with artist Chris De Rosa. 5 March. City Library. Adelaide City Council, Adelaide, SA.

Kanellos T (2015) Postcards from the edge of the city. Presentation at the AGM of the Friends of Urrbrae House. 30 May, Adelaide, SA.

Sokoloff DD, **Conran JG**, Remizowa MV, Barrett MD & Rudall PJ (2015) Diversity and evolutionary morphology of Centrolepidaceae and Hydatellaceae: is there anything in common in spite of strong differences? Problems of taxonomy and geography of aquatic plants, 21-24 October 2015, Borok, Nekouz, Yaroslavl, Russia.

Stevens MA & **Lang PJ** Host plants of Buprestid beetle adults and larvae, including larval records based on DNA barcodes. South Australian Museum.

Vonow H (2016) Native Orchid Society of South Australia. May 2016, State Herbarium of South Australia.

Vonow H (2016) The State Herbarium of South Australia. Native Orchid Society of South Australia-General Meeting, 24 May 2016, Adelaide.

Waycott M (2016) Botany 2016 — Past, present and future. Botany Symposium–2016 NRM Science Conference, 14 April, Adelaide.

Waycott M (2016) The grander view for 'our' science - where, how, why and what? NRM Science Conference, 15 April 2016, Adelaide.

Waycott M (2016) Blue Carbon. Carbon Sequestration South Australia forum, 26 May 2016, Adelaide Town Hall.

Waycott M (2016) Seaweed biodiversity and industry development. South Australian Seaweed Industry Workshop, 11 March 2016, Adelaide.

Waycott M & Biffin E (2016) Carpobrotus Workshop. South Australia State Herbarium and AMLR, 31 May 2016, Sea Rescue Squadron, Henley Beach Adelaide.

Waycott M & Canty P (2016) Herbarium historical and scientific background to SA State Herbarium and building. History Month Tours, 7-8 May 2016, State Herbarium of South Australia, Adelaide.

Waycott M & Kellermann J (2015) Re-invigorating an already well-used electronic flora: 5th Edn. Flora of South Australia. Australian Systematic Botany Society Annual Conference, 2 December 2015, Canberra.

Appendix 3 | Conferences and Workshops

5th South Australian Weeds Conference, 4-5 May 2016, Waite Campus, Adelaide – Haegi L.

30th New Zealand Fungal Foray and Colloquium, 5-9 May 2016, Queenstown/Glenorchy – Catcheside PS.

Atlas of Living Australia Science Symposium, 11-13 May 2015, Perth – Calladine A & Crichton E.

Australasian Mycological Society Conference, 14-16 July 2015, Canberra – Catcheside PS.

Australasian Mycological Society Conference, 3-5 May 2016, Queenstown, New Zealand – Catcheside PS.

Australian Systematic Botany Society Annual Conference, 29 November–3 December 2015, Canberra – Barker RM, Barker WR, Biffin E, Kellerman J & Waycott M.

Blue Carbon workshop, 26 May 2016, Adelaide Town Hall – Waycott M.

Botany 2015–Science and plants for people, 28 July 2015, Edmonton, Alberta-Canada – Conran JG.

Botany Symposium–2016 NRM Science Conference, 13-15 April 2016, The University of Adelaide – Baldock B, Bell G, Biffin E, Brodie C, Calladine A, Catcheside PS, Conran JG, Croft R, Haegi L, Kellermann J (Co-ordinator) & Waycott M (Co-ordinator).

Cannabis Identification Workshop, 17-18 November 2015, State Herbarium of South Australia – Brodie C, Kellermann J, Waycott M (Co-ordinator) & State Herbarium Staff.

Carpobrotus workshop, 31 May 2016, State Herbarium of South Australia and AMLR – Biffin E, Brodie C, Kellermann J, Toelken HR & Waycott M.

CHAH - Nomenclature and Names workshop, 27 May 2015, CSIRO video conference – Waycott M, Crichton E, Calladine A & Kellermann J.

Climate Change Adaptation Workshop, 9 December 2015, Adelaide – Waycott M.

Conservation of endangered orchid species in the Mt Lofty Ranges, Australian National Seed Bank Partnership, National Seed Science Forum, Australian Botanic Garden, Mount Annan, NSW – Duval D.

Herbarium Information Systems Committee (HISCOM) Annual General Meeting, 22 October 2015, Hobart – Calladine A & Crichton E.

Herbarium Information Systems Committee (HISCOM) Teleconference, September 2015, Adelaide – Calladine A & Crichton E.

National Resource Management and Planning, National Initiatives Forum, 22 October 2015, Chesser House, Adelaide – Waycott M.

One day workshops on fungal identification, 17 May 2016, Goodman Building, State Herbarium of South Australia – Catcheside PS.

Problems of taxonomy and geography of aquatic plants and Molecular phylogenetic courses, 21-24 October 2015, Borok, Nekouz, Yaroslavl, Russia – Conran JG.

SA Marine Parks Monitoring Program, 27 November 2015, Canberra – Waycott M.

Semicentenary after Konstantin Meyer: XIII Moscow Symposium on Plant Phylogeny: Proceedings of the International Conference, 2-6 February 2015, Moscow – Conran JG.

South Australian Seaweed Industry Workshop, 11 March 2016, Adelaide – Waycott M.

Vegetation Type Model Workshop (2 parts), 31 March 2016, DEWNR video conference – Waycott M.

Workshop for members of Adelaide Fungal Studies Group (AFSG), July 2015, Deep Creek Conservation Park – Catcheside PS.

Appendix 4 | Research Collaborations

Aagesen L, Instituto de Botánica Darwinion, Argentina (Kellermann J; Rhamnaceae morphology; comparison of Australian and South American Rhamnaceae).

Bayly M & Clowes C, The University of Melbourne (Kellermann J; Revision of the *Spyridium parvifolium* complex).

Breed M, The University of Adelaide (Biffin E; Developing genomic tools to investigate micro-evolution and adaptation in the hopbush *Dodonaea viscosa*).

Bricker E, Environmental Sciences, University of Virginia, USA (Waycott M; Systematics, evolution and population genetics of marine plants).

Burge D, University of British Columbia, Canada (Barker WR; Evolution of Celastraceae subfam. Stackhousioideae).

Carlón L, Jardín Botánico Atlántico, Spain (Barker WR, Biffin E, Waycott M; Taxonomy and phylogeography of Australian Orobanchae species).

Cassey P, The University of Adelaide (Waycott M; Biosecurity and weeds tracking).

Christenhutz M, RBG Kew, UK (Conran J; Monocot and Nicotiana research).

Christmas MJ, The University of Adelaide (Biffin E; Developing genomic tools to investigate micro-evolution and adaptation in the hopbush *Dodonaea viscosa*; Phylogeography and adaptation in South Australian eucalypts).

Collier C & McKenzie L, James Cook University (Waycott, M; Marine monitoring, Seagrass adaptations to survival, environmental drivers of ecological change).

Connell S, The University of Adelaide (Waycott, M; Oyster Reef Restoration Project).

Conran JG, The University of Adelaide (Waycott M; Systematics of *Patersonia*, *Cassytha*; Evolutionary genetics of *Cephalotus*, *Drosera*; Evolution of alismatales, seagrass fossils; Plant systematics).

Cross H, Norwegian Institute of Biotechnology, Norway (Biffin E; Developing next generation sequencing tools for biodiversity analyses).

Fortune-Hopkins HC, Royal Botanic Gardens Kew, UK (Kellermann J; Rhamnaceae in New Caledonia).

Greve M, University of Pretoria, South Africa (Kellermann J; Sub-antarctic species of Rhamnaceae).

Guerin GR, The University of Adelaide (Biffin E; Phylogenetic diversity and endemism in South Australia).

Kalwij JM, Kiel University, Germany (Kellermann J; Sub-antarctic species of Rhamnaceae).

Kendrick G, Oceans Institute, University of Western Australia (Waycott M; Seagrass genetics, evolution and restoration ecology).

Koenders A, Edith Cowan University (Waycott M; Seagrass systematics).

Lavery P, Edith Cowan University (Waycott M; Seagrass adaptations and environmental drivers of ecological change).

Les D, University of Connecticut, USA (Waycott M; Systematics and evolution of seagrasses and Alismatales).

Lowe A, The University of Adelaide (Biffin E; Developing genomic tools to investigate micro-evolution and adaptation in the hopbush *Dodonaea viscosa*).

Madison S, DEWNR (Waycott, M; Coorong Lower Lakes Murray Mouth Project).

McDonald J, The University of Adelaide (Biffin E; Chenopod biogeography).

McGlathery K, Environmental Sciences, University of Virginia, USA (Waycott M; Marine plant conservation and genetics).

McMahon KM, Edith Cowan University (Waycott M; Seagrass systematics, populations genetic diversity, seagrass adaptations and environmental drivers of ecological change).

- Medan D, Universidad de Buenos Aires, Argentina (Kellermann J; Rhamnaceae morphology; comparison of Australian and South American Rhamnaceae; Sub-antarctic species of Rhamnaceae).
- Michelmore M, Invasive Species Branch, Department of Primary Industries, NSW (Barker WR, Biffin E, Waycott M; Taxonomy and phylogeography of Australian Orobanche species).
- Pillon P & Stacy EA, University of Hawaii, USA (Kellermann J; Rhamnaceae in New Caledonia).
- Prider J & Virtue J, Biosecurity SA, Department of Primary Industries and Regions South Australia (Barker WR; Review for The biology of Australian weeds series in Plant Protection Quarterly journal: *Orobanche ramose* subsp. *mutellii* L. and *O. minor* Sm.).
- Reynolds L, University of California, USA (Waycott M; Systematics, evolution and population genetics of marine plants).
- Rudall P, Royal Botanic Gardens, UK (Conran J; Hydatellaceae and monocot research).
- Rye B & Thiele K, Western Australian Herbarium (Kellermann J; Revision of Rhamnaceae for Flora of Australia, Flora of South Australia and Flora of Tasmania).
- Sánchez PO, Grupo botánico cantábrico, Liérganes, Spain (Barker WR, Biffin E, Waycott M; Taxonomy and phylogeography of Australian Orobanche species).
- Schneeweiss G, University of Vienna, Austria (Barker WR, Biffin E, Waycott M; Taxonomy and phylogeography of Australian Orobanche species).
- Soltis D, University of Florida, USA (Kellermann J; World-wide phylogeny of Rhamnaceae).
- Thiele K, Eubio Consulting & University of Western Australia (Waycott, M; Decadal Plan for Systematics, eFlora development and strategic directions and Banksia evolution).
- Thurgate N, The University of Adelaide (Biffin E; Chenopod biogeography).
- Tiver F, (Waycott M; Grasses Research Project).
- Udovicic F & Walsh N, National Herbarium of Victoria (Kellermann J; Revision of Rhamnaceae for Flora of Australia, Flora of South Australia and Flora of Tasmania).
- van Dijk KJ, The University of Adelaide (Biffin E; Seagrass barcoding).
- Verduin J, Environmental and Conservation Sciences Cluster, Murdoch University (Waycott M; Population genetics of the seagrass *Amphibolis antarctica* along its distributional range).
- Virtue J, Biosecurity SA (Barker WR, Biffin E, Waycott M; Taxonomy and phylogeography of Australian Orobanche species).
- Wapstra M, ECOtas Environmental Consulting, Tasmania ((Barker WR; New species of *Euphrasia*; Kellermann J; New species of *Spyridum* in Tasmania).
- Waycott M, DEWNR, Marine Parks Monitoring Program.
- Waycott M & Biffin E, The University of Adelaide (Barker, WR; A molecular phylogeny of Linderniaceae).
- Yi T-S, Kumin Institute of Botany, Chinese Academy of Science, China (Kellermann J; Phylogeny of Rhamnaceae).

Appendix 5 | Scientific Grants

Barker WR (2014-15) 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).

Barker WR, Biffin E & Waycott M Hermon Slade Foundation: Insights into the provenance of Australian broomrapes (*Orobanche*) - taxonomy informing environmental management and biosecurity options (\$30,000).

Birch J, Murphy DJ, **Conran JG** & Pires JC (2016-2019) ABRS National Taxonomy Research Grant Program (NTRGP): Recovering the Australian Asparagales classification: resolving generic relationships and taxonomy of species complexes using phylogenomic techniques (\$269,279).

Collier C, Maxwell P, Adam P, McKenzie LJ, O'Brien KR, Phinn S, Roelfsema C, Uthicke S, van Dijk K & **Waycott M** (2016) Great Barrier Reef Foundation: Resilient reefs successfully adapting to climate change program: Seagrass connectivity, community composition and growth (\$75,000).

Duval D (2013-16) Native Vegetation Council Research Grant: Germination trials of *Choretrum* species in order to propagate plants for reintroduction in restoration projects (\$21,000).

Duval D (2013-16) Native Vegetation Council Research Grant: Propagation of Ericaceae species (\$36,000).

Lee DE, Gorman A, **Conran JG**, Lindqvist JK & Kaulfuss U (2015) Miocene maar complex: geophysical, paleontological and climatic significance of Hindon Maars (NZ\$40,582).

Lee DE, Kaulfuss U, Schmidt AR, Kennedy EM, Mildenhall DC, **Conran JG** & Lindqvist JK (2015-2017) RSNZ Marsden Fund: Trapped in amber: the history of New Zealand's forest biota (NZ\$810,000).

Lowe A, Lincare A, Johnson R, Donnellan S, Stephen J, Wilson-Wilde L & **Waycott M** (2016) Australian Research Council (ARC): The Advanced DNA Identification and Forensics Facility (\$261,604).

Macfarlane TD, **Conran JG** & Sirisena UM (2015) ABRS Bushblitz: Taxonomy of twining fringed lilies (*Thysanotus patersonii* group) (\$16,500).

State Herbarium of South Australia (2015-16) Biosecurity SA PIRSA: Regional landscape surveillance for new weed threats & silverleaf nightshade biological control (\$35,000).

State Herbarium of South Australia (2015-16) State NRM Program Fund Projects 2015-16: Regional landscape surveillance for new weed threats (\$50,000).

State Herbarium of South Australia (2015-16) Natural Resources AMLR, through The Sapphire Coast Icon project, BirdLife Australia: An assessment of native and introduced *Carpobrotus* sp. in Adelaide and Mount Lofty Ranges region (\$19,991).

State Herbarium of South Australia (2015-16) Natural Resources Adelaide Mount Lofty Ranges: Weeds Botanist services to NR AMLR (\$25,000).

State Herbarium of South Australia (2015-16) Natural Resources South East: Weeds Botanist visit to South East (\$11,500).

Waycott M (2015-16) Centre for Marine Ecosystems Research, Edith Cowan University: Genetic Analysis of Pilbara seagrass samples (\$48,705).

Waycott M (2015-16) DEWNR, CCLLM: Algae and *Ruppia* Investigations in the Coorong, South Australia (\$15,000).

Waycott M (2015-16) The application of genetic analysis for species identification and management of natural resources in South Australia (\$10,000).

Waycott M, Collier C & van Dijk K (2013-16) Great Barrier Reef Foundation: Climate change resilience of the GBR, developing metrics for seagrasses (\$150,000).

Waycott M & McKenzie LJ (2014-16) Great Barrier Reef Marine Park Authority – Reef Rescue: Reef Rescue Marine Monitoring Program – inshore seagrass monitoring (\$350,000).

Appendix 6 | Research Students

Post doctorate

Kor-jent van Dijk, The evolutionary ecology of seagrasses globally. The University of Adelaide, The University of Virginia. Supervised by Waycott M.

Ph.D.

Ian Geary, The Miocene to Quaternary macrofossil plant and fungal floras of Auckland and Northland. University of Otago. Supervised by Conran J.

John McDonald, Chenopod biogeography. The University of Adelaide. Supervised by Lowe A, Thurgate N & Biffin E.

Mathew Christmas, Developing genomic tools to investigate micro-evolution and adaptation in the hopbush *Dodonaea viscosa*. The University of Adelaide. Supervised by Lowe A, Breed M & Biffin E.

Ni Made Gari, Phylogeny of the Australasian Genus *Patersonia* (Iridaceae). The University of Adelaide. Supervised by Conran J & Waycott M.

Nick Kalfas, Co-evolution between the Western Australian pitcher plant (*Cephalotus*) and its wingless inquiline fly (*Badasis*). The University of Adelaide. Supervised by Conran JG, Waycott M & van Dijk K.

M.Sc.

Alexandra Bijak, Genetic diversity and population connectivity of *Syringodium filiforme* in the Florida Keys, USA and northeastern subtropical Atlantic region. University of Virginia. Supervised by Waycott M, van Dijk K & McGlathery K (University of Virginia).

Gina Digiantonio, Population genetics of *Halodule wrightii* in the Caribbean. University of Virginia. Supervised by Waycott M, van Dijk K, McGlathery K & Blum L (University of Virginia).

Joe Jackson, A study of plant fossils from the Landslip Hill silcrete. University of Otago. Supervised by Conran J.

Kelcy Kent, Comparative analysis *Avicennia germinans* along the Gulf Coast. University of Virginia. Supervised by Waycott M, van Dijk K & McGlathery K (University of Virginia).

Khadijah Awang, Phylogenetic relationships within *Cassytha* (Lauraceae). The University of Adelaide. Supervised by Conran J & Waycott M.

Thais Muñoz, Systematics of tuberous *Drosera* (Droseraceae). The University of Adelaide. Supervised by Conran J & Waycott M.

Ute Grehn, Regrowth and recruitment of the rare shrub *Logania saxatilis* in response to fire. The University of Adelaide. Supervised by Conran J.

B.Sc. (Hons)

Alexandra Gorman, Population genetic Structure of *Amphibolis antarctica*, Western Australia and South Australia. Murdoch University. Supervised by Waycott M & Verduin J, (Murdoch University).

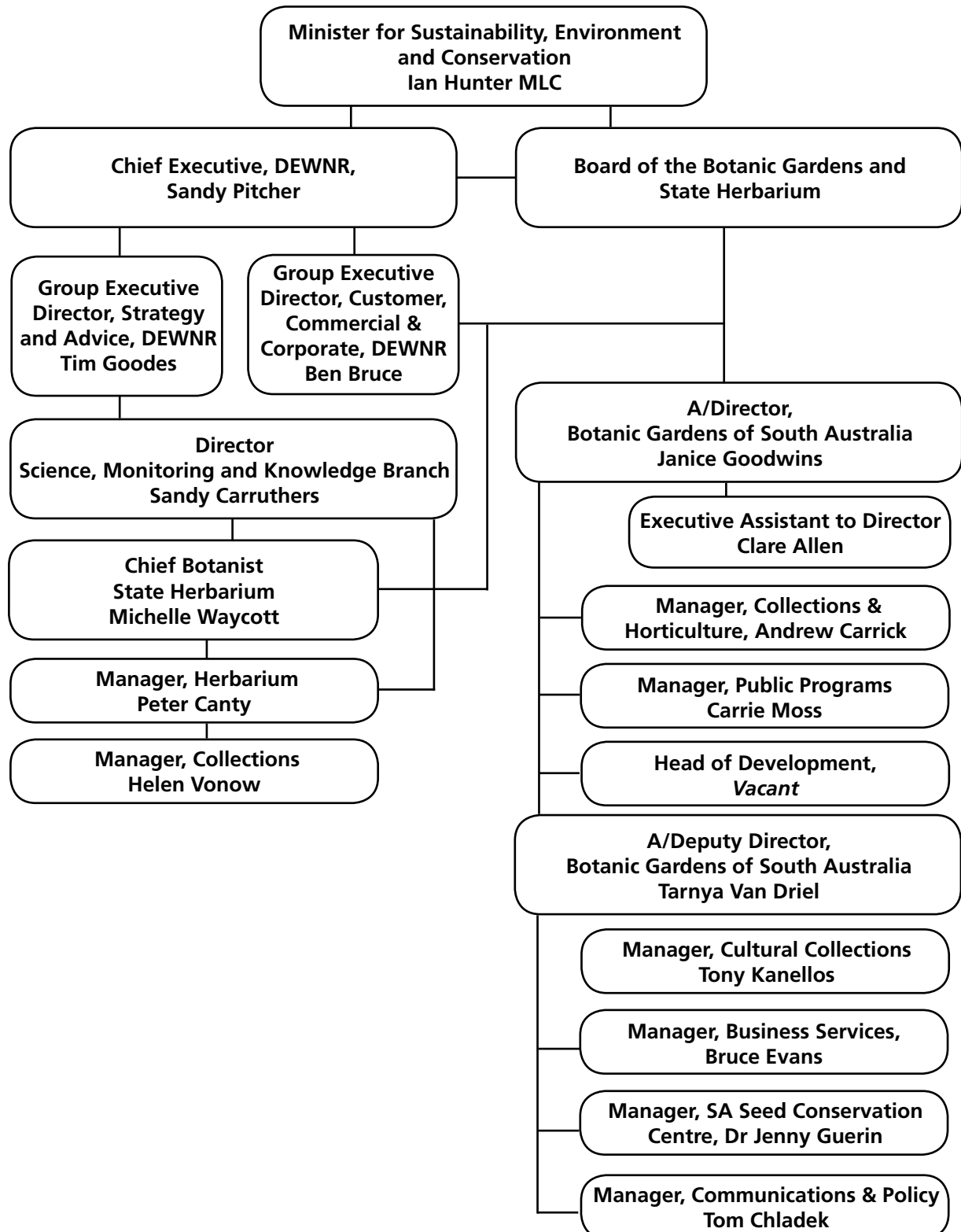
Frances Nge, Systematics of *Banksia*. University of Western Australia. Supervised by Waycott M.

Ian Geary, The macrofossil plant and fungal floras of Beachlands, Auckland. University of Otago. Supervised by Conran J.

Isaac Kerr, Phylogeny, fossil history and biogeography of Ripogonaceae. The University of Adelaide. Supervised by Conran J, Lee D (University of Otago) & Thiele K (University of Western Australia).

Appendix 7 | Organisation Chart

Board of the Botanic Gardens and State Herbarium | Reporting Structure
as at 30 June 2016



Appendix 8 | Botanic Gardens and State Herbarium Staff List

as at 30 June 2016

Director's Office

Janice Goodwins, A/Director
Clare Allen,
Executive Assistant to Director
Anita Baker,
Personal Assistant to Deputy Director
Helen Bariamis,
Support Services Officer
Kelly Bramhill,
Learning Partnership Manager
Pam Bremer,
Operational Support Officer
Andrew Carrick,
Manager, Collections & Horticulture, Adelaide,
Mount Lofty and Wittunga
Tom Chladek,
Manager, Communications & Policy
Jake Dean,
Media Communications Coordinator
Daniel Duval,
Senior Seed Collection Officer
Bruce Evans,
Strategic Projects Manager
Dr Nicky Fidler,
Collections Policy Officer
Jenny Guerin,
Seed Research Officer
Aaron Harrison,
Kitchen Garden Program Coordinator
Sophie Hastwell,
Project Officer
Trevor Jacob,
Museum Attendant
Tony Kanellos,
Manager, Cultural Collections &
Curator, Santos Museum of Economic Botany
Stephen Kingdon,
Technical Officer
Carrie Moss,
Manager, Public Programs
Nadia Parker,
Events Program Coordinator
John Sandham,
Collections Development Officer
Tarnya Van Driel,
A/Deputy Director
Lorrae West,
Librarian

Adelaide Garden

Paul Arbon, Horticultural Curator
Jordan Behrndt, Gardener
Peter Borgelt, Gardener
Peter Bowron, Handyperson
Darryl Byfield, Gardener
Kris Charlton, Horticultural Supervisor
Andrew Hart, Horticultural Curator
Stephen Havriluk, Senior Maintenance Officer
Stephen Higgins, Senior Gardener
Judy Inkster, Horticultural Trainee
Peter Kannemann, Assistant Gardener
Stuart Maitland, Senior Gardener
Nikko Menzel, Gardener
Nick Milton, Gardener
Jordan Mitsos, Horticultural Trainee
Adam Pannell, Traffic Officer
Flavio Perez, Horticultural Trainee
Pip Robinson, Horticultural Curator
Robert Roether, Regional Asset Services Office
Carolyn Sawtell, Horticultural Curator
Cliff Sawtell, Horticultural Supervisor
Karen Smith, Horticultural Curator
Dieter Streich, Horticultural Trainee
Ryan Underhill, Horticultural Trainee
Enzo Vidoni, Maintenance Supervisor
Sharon Wilcox, Gardener
Ross Williams, Maintenance Team Leader
Paul Winter, Gardener

Mount Lofty and Wittunga Gardens

Tony Anderson, Gardener
Stefan Anesbury, Horticultural Trainee
Valdis Balodis, Gardener
Evan Brougham, Gardener
Graeme Burdett, Horticultural Curator
Matt Coulter, Horticultural Curator, Plant
Propagation
Cosimo De Paola, Horticultural Trainee
Mark Devlin, Horticultural Curator
Lisa Duffy, Gardener
John Edgar, Gardener
Scott Foubister, Horticultural Curator
Laura Harvey, Horticultural Trainee

Robert Hatcher, Horticultural Supervisor
John Henson, Horticultural Curator
Michael Jeffery, Horticultural Trainee
Hugh Matthews, Gardener
Tina Miljanovic, Horticultural Curator Nursery and Living Collections Support
Mark Oborn, Horticultural Supervisor
Renie Ondo, Gardener
Cameron Peoples, Gardener
David Pepper, Maintenance Team Leader
Samuel Rose, Gardener
Rory Smith, 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
Kirsty Bevan, Herbarium Information System Upgrade Project Manager
Ed Biffin,
Molecular Botanist
Chris Brodie,
Weeds Botanist
Jessica Burdon, Technical Officer
Ainsley Calladine,
Honorary Research Associate and Information Systems Support Officer
Eleanor Crichton,
Senior Systems Analyst
Laurie Haegi,
Senior Botanist and Hon. Research Associate
Jürgen Kellermann,
Senior Botanist
Peter Lang,
Senior Botanist
Martin O'Leary,
Technical Officer
Andrea Ramsey,
Technical Officer
Carolyn Ricci,
Technical Officer

Kat Ticli,
Technical Officer
Chelsea Tohill,
Technical Officer
Lisa Waters,
Technical Support Officer
Susan Leahy,
Administrative Support Officer
Kor-jent van Dijk,
Postdoctoral Researcher

Botanic Gardens Honorary Research Associates

Dr Manfred Jusaitis

State Herbarium Honorary Research Associates

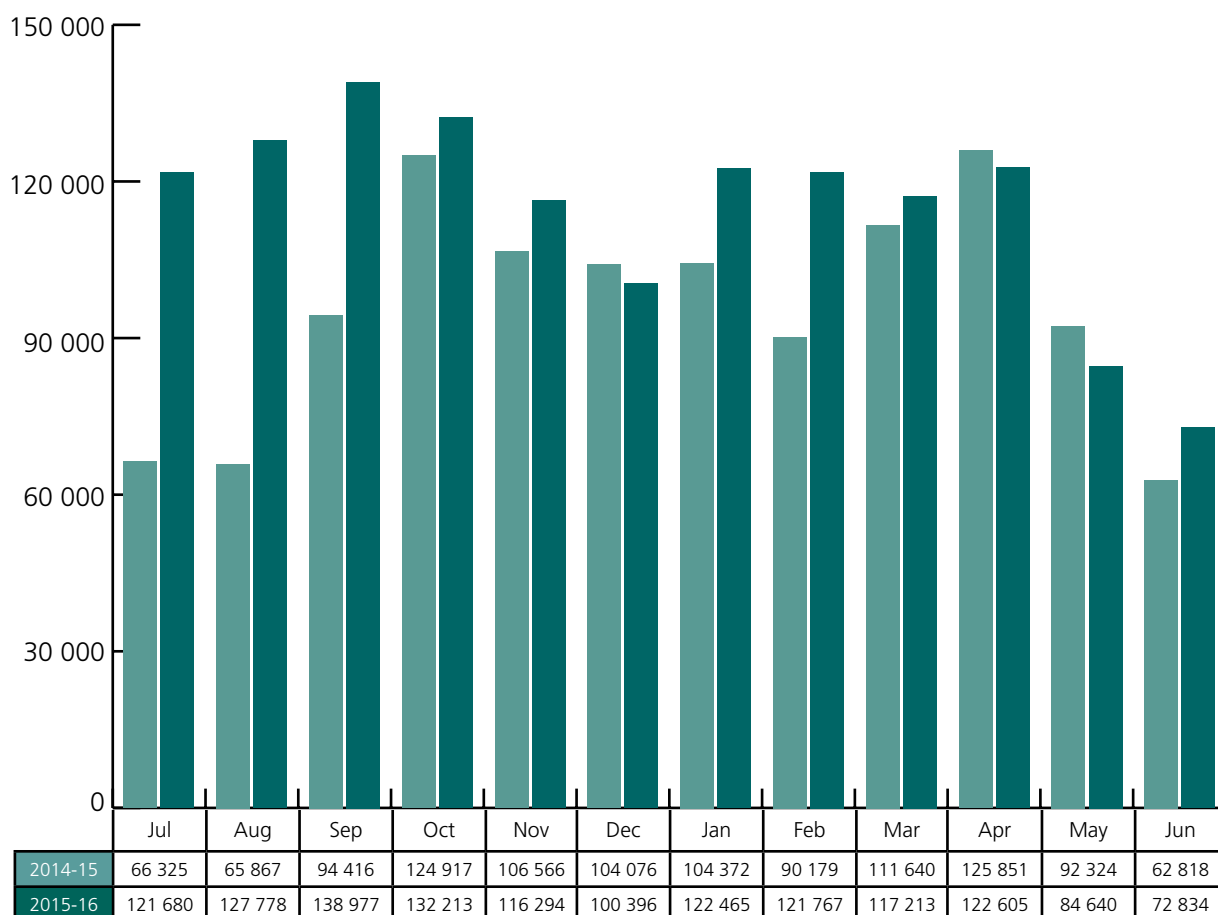
Bob Baldock
Bill Barker
Robyn Barker
Ainsley Calladine
Pam Catcheside
Bob Chinnock
Doug Fotheringham
Fred Gurgel
Laurie Haegi
John Jessop
Hellmut Toelken

State Herbarium Associate Researchers

Dr John Conran,
The University of Adelaide
Dr Molly Whalen,
Flinders University of South Australia

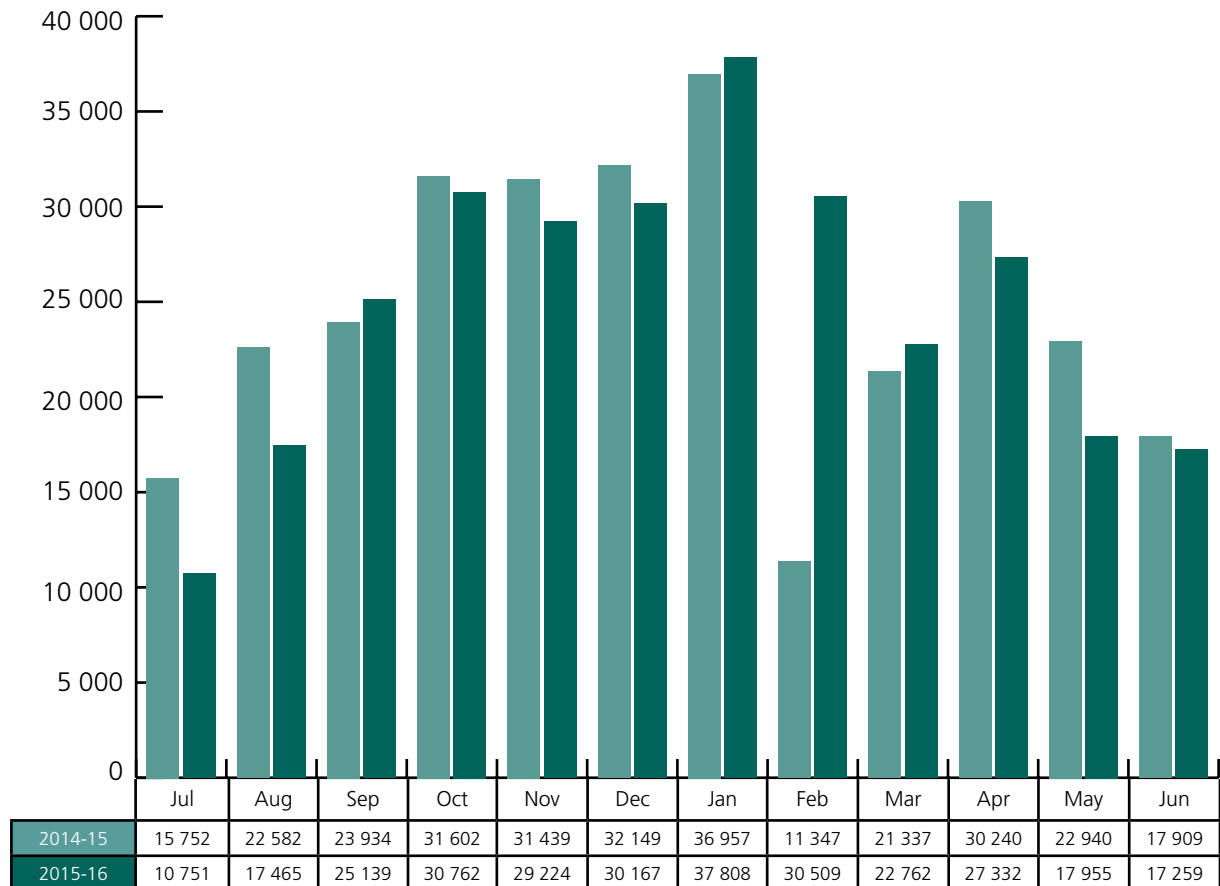
Appendix 9 | Visitor Numbers

Adelaide Botanic Garden - Visitor Numbers



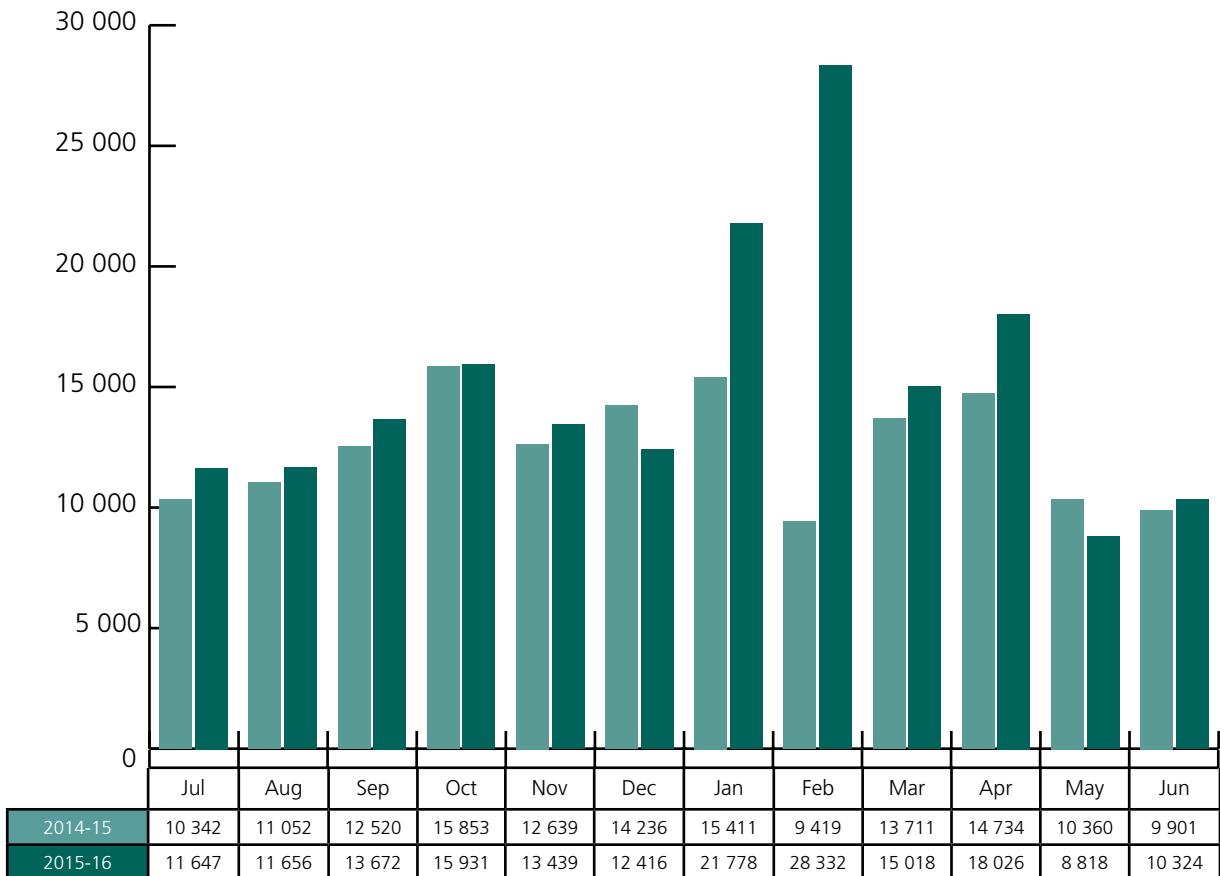
Adelaide Botanic Garden	
1 July 2014 to 30 June 2015	1 149 352
1 July 2015 to 30 June 2016	1 378 862

Botanic Park - Vehicular Attendance



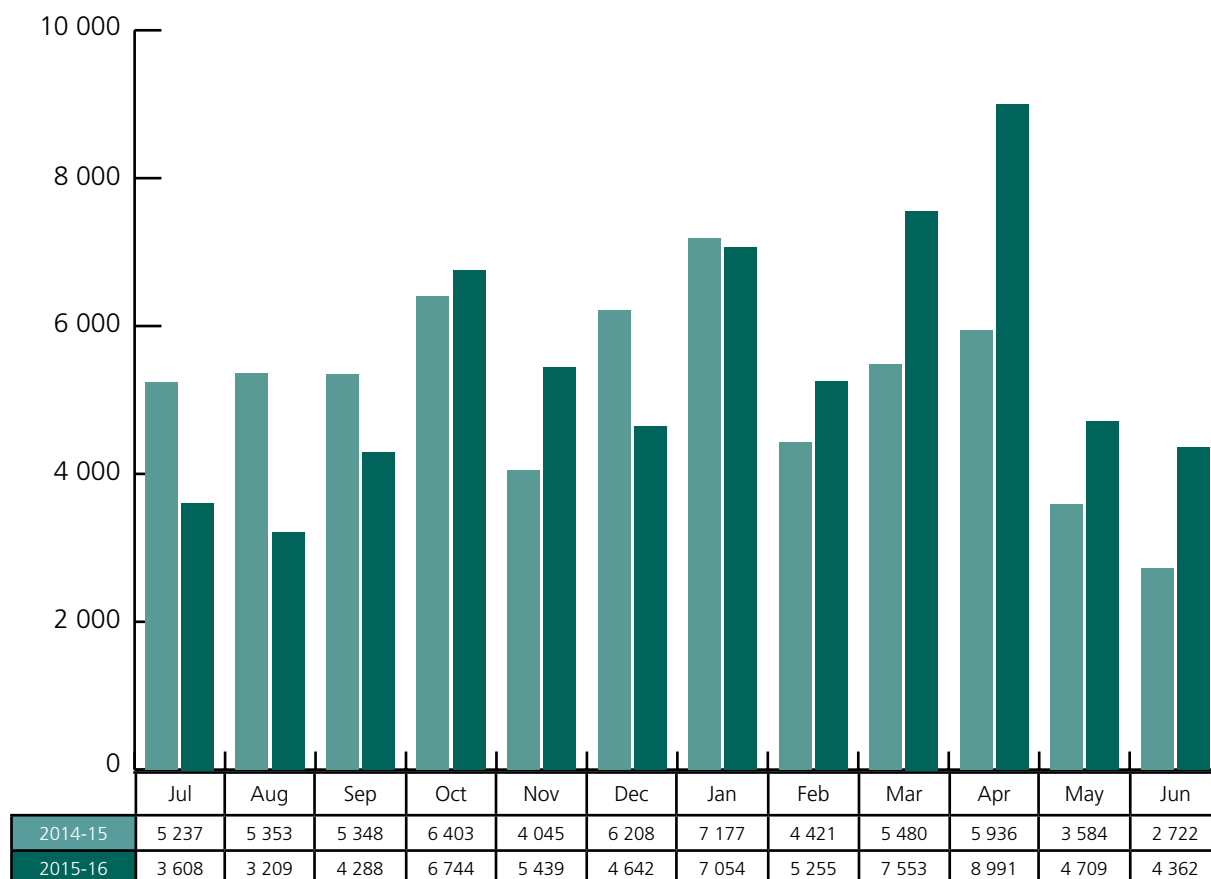
Botanic Park Vehicular Attendance	
1 July 2014 to 30 June 2015	298 187
1 July 2015 to 30 June 2016	297 133

Bicentennial Conservatory – Visitor Numbers



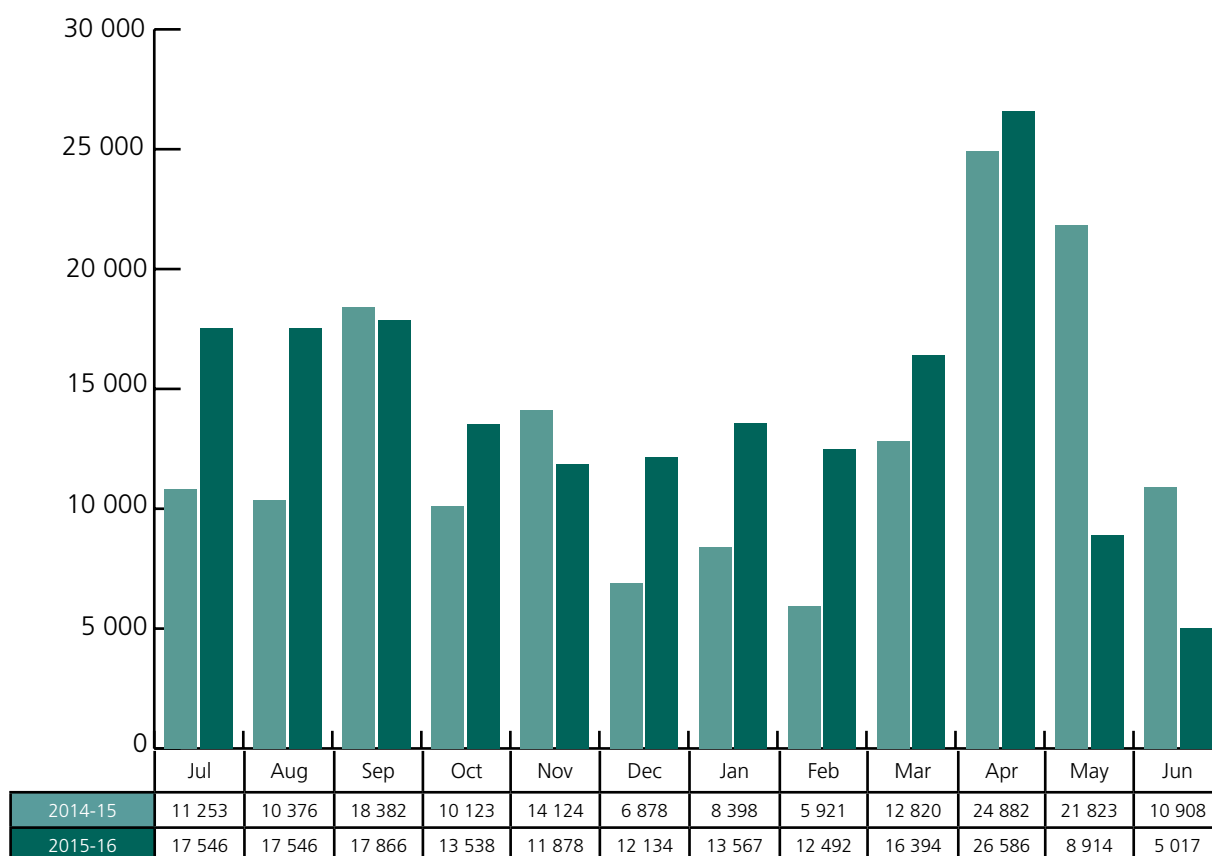
Bicentennial Conservatory – Visitor Numbers	
1 July 2014 to 30 June 2015	150 178
1 July 2015 to 30 June 2016	181 057

Santos Museum of Economic Botany – Visitor Numbers



Santos Museum of Economic Botany	
1 July 2014 to 30 June 2015	61 914
1 July 2015 to 30 June 2016	65 854

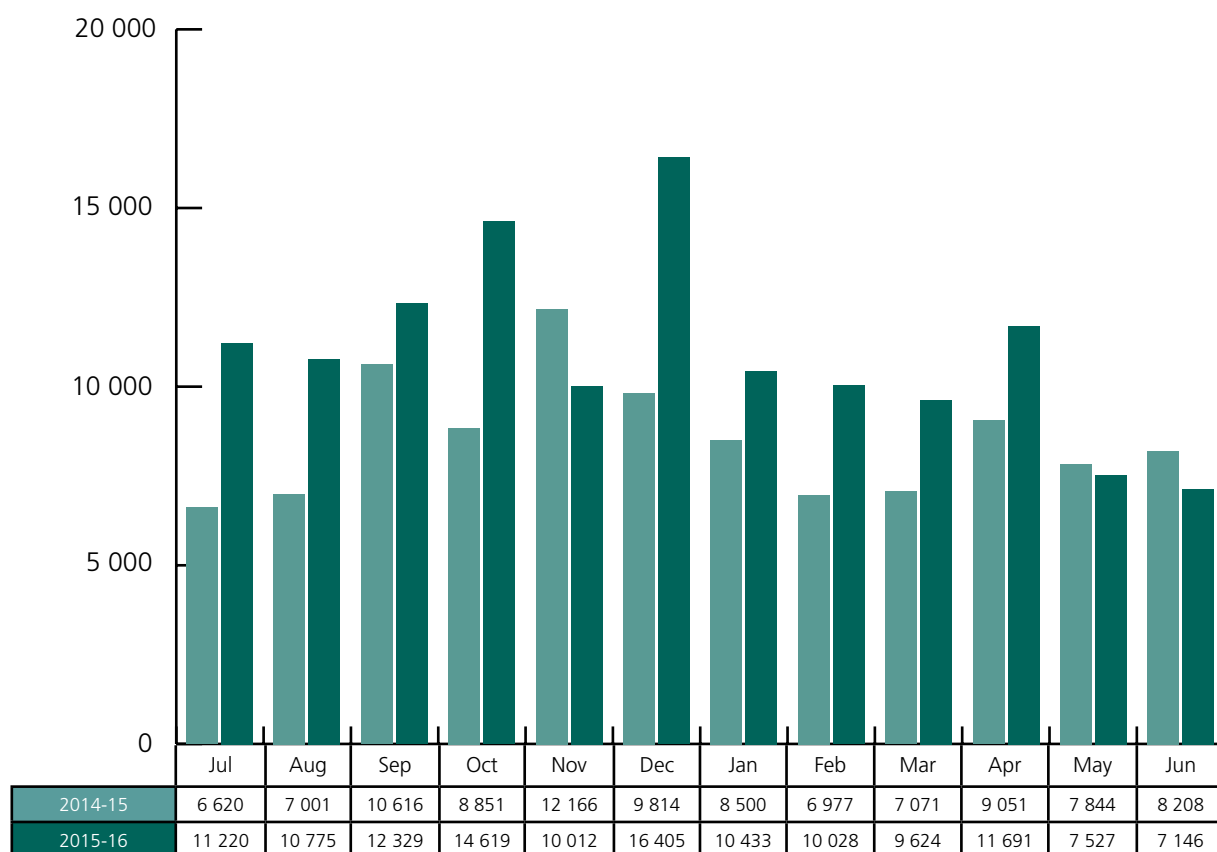
Mount Lofty Botanic Garden – Vehicular Data



Mount Lofty Botanic Garden	
1 July 2014 to 30 June 2015	155 888
1 July 2015 to 30 June 2016	173 478

Vehicular counters at Mount Lofty were not operational in July and August 2016. Numbers are based on previous years.

Wittunga Botanic Garden – Visitor Numbers



Wittunga Botanic Garden	
1 July 2014 to 30 June 2015	102 719
1 July 2015 to 30 June 2016	131 809

Appendix 10 | Additional comments on the Annual Financial Statements

The Statement of Comprehensive Income for year ended 30 June 2016 shows a Total Comprehensive Result Deficit of \$356 000.

This is made of a surplus on operating activities	\$0.162k
Plus Resources Received Free of Charge	\$1.440m
Less Depreciation	\$1.948m
Less Inventory Movement	\$0.010k

The operating activities of the Board are the monetary transactions of the Board during the year covering Income (fees and charges, interest, grants) and Expenditure (goods and services).

The Resources Free of Charge is a non-cash 'income' to the Board. DEWNR supports the Board through funding creation or upgrading of infrastructure assets for the Botanic Gardens. Under the *Botanic Gardens and State Herbarium Act 1978*, the Board has stewardship of the Botanic Gardens, therefore the Board has the vested interest and control of the assets within the Botanic Gardens.

For this reason, the 2015-16 asset expenditure of \$1.440m by DEWNR is transferred to the Board as 'income', with an appropriate increase in the asset holdings of the Board (Park Infrastructure \$376k, Roads \$596k and Plant & Equipment \$468k).

Depreciation is a non-cash 'expenditure' recognising the reduction in value of the Botanic Gardens assets through 'wear and tear' and expected life of an asset. The depreciation is calculated in accordance with Note 2(i) - Depreciation on non-current assets.

The inventory Movement is also a non-cash 'expenditure' recognising the reduced valuation of the Board's books held for sale.

Appendix 11 | Friends of the Botanic Gardens of Adelaide

Patrons

His Excellency the Honourable Hieu Van Le AO
Governor of South Australia and Mrs Lan Le

Office Bearers

President

Mr Bodo Jensen

Immediate Past President

Mrs Helena Jenkinson

Treasurer

Mrs Anne Bowman

Secretary

Gillian Simons

Current Membership: 900

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.

2015-16 Program

July 2015

- Mt Lofty Botanic Garden Plant Sale
- Planet Ark Tree Day Walks with Garden Guides
- DVD – with morning tea
- Gazette Mail-out
- Volunteers helped with 2 Critters Workshops during School Holiday Program

August 2015

- SALA in North Lodge with Jenny Berends Photographer & Julia Townsend Artist
- General Meeting
- Mt Lofty Botanic Garden Plant Sale
- Insect Illustration 2 day workshop with Jenny Thurmer, Illustrator for SA Museum
- North Lodge Morning Tea for Volunteers

September 2015

- Newsletter mail-out
- Twilight Talk
- North Lodge History Display for Wittunga Botanic Garden's 40th Anniversary
- Growing Group Plant Sale MLBG
- Newsletter mail-out
- Twilight Talk
- Growing Group Plant Sale MLBG

October 2015

- Salvia Day & Sale
- ABC Gardeners Market FBGA Stall
- Spring Bus Tour
- North Lodge History Display for WBG 40th Anniversary
- Mt Lofty Botanic Garden – Plant Sale
- Gazette mail-out
- Volunteers helped with 2 Critters Workshops during the School Holiday Program

November 2015

- Annual General Meeting
- DVD with Morning Tea
- Friends Botanical Art Group Exhibition in North Lodge
- Volunteers Morning Tea
- Herb Day
- Growing Group Plant Sale MLBG
- Kitchen Garden Scarecrow Making

December 2015

- FBGA Newsletter mailout
- North Lodge Christmas Craft Display
- Woodturning Exhibition by Tim Skilton & Ron Allen in North Lodge
- Christmas Lunch
- Christmas Display North Lodge

January 2016

- FBGA Gazette mail-out
- Volunteers helped with 2 Critters Workshop during School Holiday Program
- Quandong Display & Sale of Quandong plants in North Lodge

February 2016

- FBGA General Meeting, Noel Lothian Hall
- FBGA Newsletter Mail-out
- Ginkgo Display & Sale of Ginkgo plants in North Lodge

March 2016

- FBGA Stall at ABC Gardeners Market
- Plant Sale Mt Lofty Botanic Garden
- Autumn themed Easter Display featuring Rosaceae in North Lodge
- FBGA Gazette Mailout

April 2016

- Twilight Talk – Philip Roetman – Citizen Science
- Government House Open Day Walks
- Games Day
- ABC Gardeners Market
- Woodturning Exhibition by Tim Skilton & Ron Allen in North Lodge
- North Lodge Heirloom Festival Display
- Plant Sale MLBG
- Tasting Australia Walks by Guides
- 2 Critters Workshops during the School Holiday Program
- Butter Making during the Heirloom Festival

May 2016

- FBGA GM in Noel Lothian Hall
- North Lodge Tasting Australia Display
- Plant Sale MLBG
- History Month – Walks in the 3 Gardens
- History Month Exhibition in North Lodge
- Visitor Information Centre Training

June 2016

- FBGA Newsletter mailout
- Photographic Exhibition in North Lodge
- Garden Guides participation in World Environment Day
- Plant Sale MLBG

Speakers - General Meetings

August 2015

Greg Johnston
South Australian Pelicans

November 2015

Prof Chris Clark
Australian Aboriginal Ethno Botany

February 2016

Andy Hart
Gwen Thomas Scholarship trip

May 2016

Greg Johnston
The grazing impact of goats in the Gawler Ranges

Speakers - Twilight Talks

September 2015

Pamela Rajkowski
Afghan cameleers in South Australia

April 2016

Philip Roetman
Citizen Science

Support provided to Botanic Gardens and State Herbarium

Financial

Gwen Thomas Bursary, Horticultural Staff Award	\$7 065
Debbie Boyd - digitising slides	\$18 470
Total	\$25 535

Volunteering

Bus Tours of Mount Lofty Botanic Garden

Advertising & Distribution of Botanic Gardens of South Australia Publications

Monthly Self-Guided Walk Trails at Adelaide, Mount Lofty and Wittunga Botanic Gardens

World Environment Day

Botanic Gardens of South Australia
City Crop Project

**Total Volunteer Hours provide
by the Friends: 26 309**

Friends of the Botanic Gardens of Adelaide Sub-committees

The Botanical Art Group – 2015-16 Summary of Activities

2 day workshop, – Coloured Pencils - Frogs

Date: Sat 4 and Sun 5 July 2015

Time: 10am - 4pm

Tutor: Janet Matthews, Melbourne-based and internationally recognised natural history illustrator

Number of students: **14**

2 day workshop – Lino cuts - after the style of Margaret Preston

Date: Sat 8 Aug and Sun 9 August 2015

Time: 10am – 4pm

Tutor: Veronica Oborn

Number of students: **14**

2 day workshop – Lots of Lemons, their fruits, flowers and foliage

Date: Sat 19 and Sun 20 September 2015

Time: 10am – 4pm

Tutor: Stephanie Goss

Number of students: **14**

What makes a good card – from a graphic design perspective

Tutor: Mary Nagy (retired graphic designer)

Drawing with Precious Metals

Date: Saturday 9 and Sunday 10 April 2016

Time: 10am – 4pm

Tutor: Carole Bann, South Australian artist who works in MetalPoint

Beginners Watercolour Class

6 x 2.5 hour classes each Saturday from
16 April 2016 to 21 May 2016

Time: 9.30am – 12pm

Tutor: Cathy Veide

The Art Botanical Group still meets weekly except during the WOMADelaide Weekend and Easter Weekend. The Botanical Art Group commenced 1st February 2014 - last day 13 December 2014 for Christmas holidays. There has been an average of 17 members each week, but not always the same people.

The Friends of the Botanic Gardens of Adelaide Gazette

The *Friends Gazette* is edited by Dr Ed McAlister and is published seasonally with articles from staff and Friends.

The *Friends Gazette* is a high quality quarterly production which is a great tool to publicise the events and work of the Botanic Gardens as well as the Friends. A team of volunteers organise the distribution to Members, staff, media and allied associations in South Australia, interstate and New Zealand.

Cost of producing Gazette:

\$14 500

(excluding postage costs)

The Growing Group

The Growing Group continued propagating plants in the Mount Lofty Botanic Garden Nursery with material collected from the three Gardens. The Growing Group meet at Mount Lofty Botanic Garden on Tuesday and Friday mornings.

Plant sales from 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 Autumn and Spring Sales. Mount Lofty Botanic Garden plant sales are regularly advertised on the radio and online. The Growing Group also assist in the Nursery with weeding, re-potting and other tasks as required.

The Growing Group produces plants for sale at North Lodge.

The two Plant Sales at the *Amorphophallus* viewings were well worthwhile. Volunteers from the Growing Group and Guides and others also helped at the viewings.

Community Outreach

A small group is available to provide speakers to aged-care facilities, service groups, senior citizen clubs etc, to promote 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*.

Northern Suburbs Community Radio PMA FM 89.7, *Hills Radio at Mt Barker 88.9 FM*.

The Garden Guides

Helena Jenkinson 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 2015-16 there were 52 members of the Garden Guides. Five Guides resigned and there were 8 trainees. Original Guide, Lesley Hawkins, trained in 1983, was awarded an OAM in the Queen's Birthday Honours in June 2015 for her community work and work with the Friends.

Monthly trails were distributed in the three Gardens:

- 6296 are used by the public at Adelaide Botanic Garden
- 3000 are used by the public at Mount Lofty Botanic Garden
- 1800 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.

Guest Lecturers for the Garden Guides

July 2015

Katja Hogendoorn, Native Bees

August 2015

Chris Brodie, Weeds

September 2015

Mark Oborn, Wittunga Botanic Garden plantings

October 2015

Guides Sydney Conference

November 2015

Botanic Gardens Communications Team, Activity and Events in the Gardens

December 2015

Christmas Lunch

January 2016

Aaron Harrison, Little Sprouts Kitchen Garden

February 2016

Sarah Sutter, Nature Play SA

March 2016

Sandra Stuart, Herbs and Salvias

April 2016

Rob Hatcher, Mount Lofty Botanic Garden

May 2016

Bob Chinnock, Feral Cactus Prickly Pears

June 2016

Jennifer Gardner, Trees
Guide AGM

Guided walks

Free guided walks were held in **Adelaide Botanic Garden** every day except Christmas Day and Good Friday.

In total 341 walks were held with 23 cancelled due to the heat policy.

There were 2443 visitors in total (South Australia 712, interstate 619, overseas 1112), compared to 2222 in 2014-15.

Free guided walks were held in Mount Lofty Botanic Garden every Thursday, with a total of 49 walks for 130 visitors.

Free guided walks were held in Wittunga Botanic Garden every Tuesday. There were a total of 49 walks for 135 visitors.

Booked walks were available for groups of five or more and provided to the following groups -

Government House

Guides took 8 Garden Tours on 29 November 2015. The day hosted 2500 visitors and each walk on the half hour was well- attended.

Talks to Groups

Guides gave 4 talks to groups including Resthaven and Burnside Library. These were given on 14/05/15, 10/11/15, 17/11/15 and 21/03/16. All were well-attended.

Booked walks	ABG	MLBG	WBG	Total
Number of walks	56 (83)	49 (9)	6 (16)	111 (108)
Total no. Visitors	885	754	95	1734
Bus Tours MLBG	-	28	-	28

Other groups included; Families SA, ESL exchange and language students, organised tours for travel companies, garden clubs, community centres, church groups, retired peoples' groups, retirement & nursing homes, Probus, Legacy, Lifecare, MIFSA, ARPA, TAFE, UNISA, Viewclubs, Rotary, U3A, walking clubs and Carer's associations.

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.

Thanks to a grant of \$35 000 from the Friends, staff have made a start on the digitisation of the approximately 9 500 slides taken by former Director Noel Lothian and donated to the Gardens by the late Mrs. Viv Lothian in 2006 which were sorted into themes by volunteer labour.

Visitor Information Centre

The Friends manage the Visitor Information Centre. Lesley Hawkins and Bodo Jensen along with a Steering Committee endeavour to make sure there is a Volunteer in the VIC where possible.

Volunteers are able to access a Roster via the Internet program 'Ubiquity'. There are valuable training sessions run by Lesley and Bodo with guest speakers.

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 2015-16

Month	% time attended	People helped	Shifts occupied
Jul 2015	87.10	555	54/62
Aug 2015	90.32	599	56/62
Sep 2015	75.00	724	45/60
Oct 2015	75.81	898	47/62
Nov 2015	75.00	794	45/60
Dec 2015	67.74	543	42/62
Jan 2016	88.71	1156	55/62
Feb 2016	98.28	1165	57/58
Mar 2016	82.26	881	51/62
Apr 2016	93.33	1333	56/60
May 2016	85.48	905	53/62
Jun 2016	96.67	334	58/60

North Lodge Sub-committee

North Lodge houses the Friends' book collection and Guides' resource material. North Lodge is managed by a volunteer sub-committee of Friends which meet each month with Jackie Skilton as the Convener. The volunteers in North Lodge provide information for visitors about the Friends and the three Botanic Gardens of South Australia and it hosts a wide range of exhibitions and workshops for Friends and visitors to Adelaide Botanic Garden.

Displays and Exhibitions

The Friends were involved in the following Displays and Exhibitions including: SALA; History of Wittunga celebrating its 40th Anniversary; Friends Botanical Art Exhibition; Friends Photography Exhibition; Basketry SA Exhibition; Woodturning Exhibition; Tasting Australia; and the Heirloom Festival.

Santos Museum of Economic Botany

Several Friends volunteer in the Santos Museum of Economic Botany enabling it to remain open seven days a week during exhibitions and 4 days a week at other times of the year.

Hands on Hort

Hands on Hort is a volunteer gardening program at Wittunga Botanic Garden. The eight 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.

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 Sketch Club meets monthly 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.

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.

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.

Community Events

This group coordinates the Friends' attendance at garden shows such as the Stirling Autumn Fair and Hills Garden & Environmental Expo, ABC Gardener's Markets & Herb Day at which we promote the Gardens and our organisation through photos, brochures and information.

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 continually updated with information
- A colour brochure of birds found in Adelaide Botanic Garden republished
- 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

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.

Special Walks 2015-16	ABG	MLBG	WBG	Total
History Week May 2015				
No of Walks	7	5	6	18
No of visitors	37	16	16	69
Spice Trail 2015				
No of Walks	5	-	-	5
No of Visitors	85	-	-	85
National Tree Day 2015				
No of Walks	-	-	-	-
No of Visitors	55	-	-	55
SALA Month August 2015				
No of Walks	5	-	-	5
No of Visitors	49	-	-	49
TreeNet Symposium September 2015				
No of Walks	-	-	-	-
No of Visitors	190	-	-	190
Love Notes in Adelaide Botanic Garden February 2016				
No of Walks	-	-	-	-
No of Visitors	290	-	-	290
World Environment Day 2016				
No of Walks	-	-	-	-
No of Visitors	3000	-	-	3000

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Board of the Botanic Gardens and
State Herbarium

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Board of the
Botanic Gardens and
State Herbarium



**Government
of South Australia**

Department of Environment,
Water and Natural Resources