

Seed Banking throughout Australia in support of Target 8 and 9 of the GSPC

Damian Wrigley
National Coordinator
August 2018



Our vision is a future where native plant diversity is valued, understood and conserved for the benefit of all.



Lesley Hammersley, BGPA



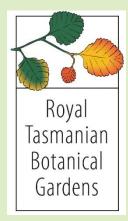
 The Council of Heads of Australian Botanic Gardens Inc.

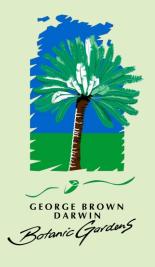
Not for profit organisation

- Business Plan 2011-2020
- National Steering Committee
- National Coordinator









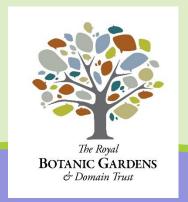


Our Partners













Our Partners









Our Associates









Australian Government

Department of the Environment and Energy

Business Plan 2011-2010



Acradenia frankliniae, RTBG

- Aligned with the targets of the Global Strategy for Plant Conservation
- Standard seed conservation approach across the states, territories and Australian Government
- Five Goals
- Four Key Projects

Our Goals

- 1. Collecting and storing seed
- 2. Conducting research
- 3. Developing national standards



Sclerolaena fontinalis, BGSH



Our Goals

4. Sharing knowledge and engaging the public

5. Securing and strategically managing our resources



1000 Species Project

- Endemic, Endangered or Economically significant – Approx.
 800 species
- Improving genetic diversity of collections
- Over 20,300 collections of 13,000 unique taxa.
 Over half of the known species.

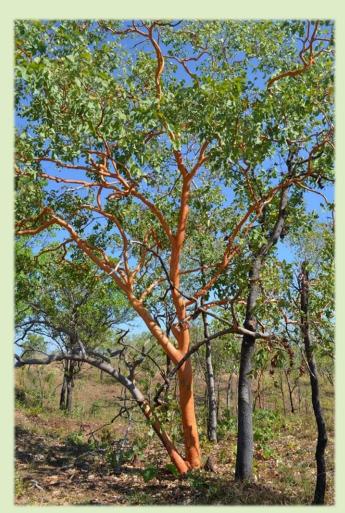


Banksia verticillate, DBCA

Global Trees Seed Bank Project

- Support from the Garfield Weston Foundation, through the MSBP, Kew
- 380 species over three years that are new to Kew. Over 340 collected.

 2018-2019 – Targeting up to 100 additional collections.



Eucalyptus tintinnans, GBDBG

Phytophthora cinnamomi

- Genetically diverse collections from species impacted by P. cinnamomi
- Collecting in four states
- Secured 60 collections of 27 taxa
- Seed orcharding and restoration



Prosanthera eurybioides, BGSH

Restoring Diversity

 All collections are tested for viability & most are available for research or restoration.

Collaborations
 with NGOs,
 Universities
 and business
 to restore
 degraded lands



Crop Wild Relatives



Kakadu National Park collecting team, Shiona MacDonald, KNP

- 15 collections of
 12 taxa
- Cajanus, Glycine, Oryza, Sorghum& Vigna
- Training & capacity building
- Wet season & cultural considerations



Fanny Karouta-Manasse, ANBG



MSBP Seed Conservation Standards







Science and Research



Lasiopetalum moullean, Dr Andrew Crawford, DBCA

- National Seed Science Forum synthesis
- Saving rainforest seeds of S.Pacific
- Seed dormancy and germination
- Seed based tech for restoration
- Understanding and responding to weed invasions

Sharing Knowledge

Seed conservation techniques training New Zealand – Dec 2017 – BBG and RBGDT





Wellington and Auckland Seed Conservation Techniques Training. Image: MSBP

Australian Seed Bank online

- Open access
- Seed collections data





 Germination protocols under development

Plants on the Precipice



Collecting Ranunculus anemoneus from Mt Kosciusko, RBGDT

 Alpine and Montane

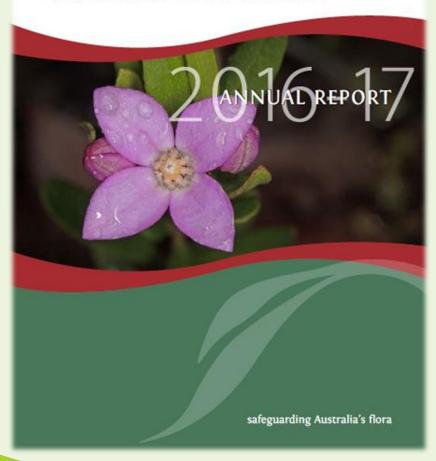
 Biodiversity Hotspots

 Coastal and Lowlands



Safeguarding Australia's Flora

through a national network of native plant seed banks



Annual Report 2016-2017

Available on the ASBP website

www.seedpartnership.org.au/about/reports



Seed Science Forum 2020



Hosted by Australian National Botanic Gardens

National and International seed scientists

www.seedpartnership.org.au





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