



SAVING OUR SPECIES

Silver Sword Lily

2018-2019 annual report card

Overall status*

- **Populations at all sites are known to be on track.**
- Threat management is known to be on track at all sites, and population status is unknown at one or more sites.
- Threat management is known to be off track at one or more sites, and population status is unknown at one or more sites.
- Populations at one or more sites are known to be off track.

* For SoS priority management sites (may not include all locations where the species occurs in NSW)



Scientific name:
Neoastelia spectabilis

NSW status:
Vulnerable

Commonwealth status:
Vulnerable

Management stream:
Site-managed species

Summary

Management sites	Ambleside; Cascades Walk; Little Murray Lookout
Action implementation	No management actions were planned for the financial year.
Total expenditure	\$6,360 (\$6,000 cash; \$360 in-kind)
Partners	Office of Environment and Heritage





Photo: Shane Ruming

Priority management site: Ambleside

Local government area:
Bellingen

Partners:
Office of Environment and Heritage

Population outcome

-  **On track**
-  **On track (inferred)**
-  **Not on track (inferred)**
-  **Not on track**

Monitoring

Species population monitoring by one or more methods indicates response to management over time and provides an outcome measure.

Monitoring metric	Species abundance
Annual target	Populations recorded as stable or increasing
Long term target	Maintain or improve species abundance / condition over time.
Monitoring result	Two sub populations occur at this site. Nine plants were originally known at East Ambleside, with a approximately 200 further plants located during drone and rope surveys. Approximately 400 plants are known at West Ambleside. The populations at these locations appear to be stable.
Scientific rigour of monitoring method	Moderate
Conducted by	Office of Environment and Heritage

Investment

Participant	Cash	In-kind
Office of Environment and Heritage	\$4,000	\$60

Site summary

The current (April 2019) total population across all sites in New England National Park is estimated to be approximately 632 Silver Sword Lily plants, including two new large populations have discovered during surveys over the last 5 years. The populations at known sites has remained stable over the last 5 years. Drone and rope surveys at the Ambleside site located approximately 200 additional plants in the East Ambleside sub-population; a substantial increase from the previous total of nine plants. The new plants are located on the lower section of a large sheer cliff, approximately 300 meters south of the previously known plants, where groundwater seepage is present. These plants bring the total population for the Ambleside site, from both the East and West sub-populations to approximately 609 plants.

The Cascades Walk site has a stable population of 22 plants.

Little Murray Lookout site contains only a single known plant. Consideration will be given to closing this location as a site, given the more substantial populations at the other locations.





Approximately 100,000 seeds were harvested from mature plants at the Ambleside (20,000) and Cascade sites (80,000) and are now stored *ex-situ*, at the Mt Annan Botanical Gardens seedbank.

Priority management site: Cascades Walk

Local government area:
Kempsey

Partners:
Office of Environment and Heritage

Population outcome

-  **On track**
-  **On track (inferred)**
-  **Not on track (inferred)**
-  **Not on track**

Monitoring

Species population monitoring by one or more methods indicates response to management over time and provides an outcome measure.

Monitoring metric	Species abundance
Annual target	Maintain population at greater than 20 individuals.
Long term target	Maintain or improve species abundance / condition over time.
Monitoring result	The population at the Cascades Walking trail remains stable at 22 plants recorded.
Scientific rigour of monitoring method	Moderate
Conducted by	Office of Environment and Heritage

Investment

Participant	Cash	In-kind
Office of Environment and Heritage	\$2,000	\$300

Threat outcome

Assessment on the status of critical threats at this site.

Threat	Annual target	Threat status
Risk of local extinction due to small, restricted population.	stable population size and health	On track

Site summary

The current (April 2019) total population across all sites in New England National Park is estimated to be approximately 632 Silver Sword Lily plants, including two new large populations have discovered during surveys over the last 5 years. The populations at known sites has remained stable over the last 5 years. Drone and rope surveys at the Ambleside site located approximately 200 additional plants in the East Ambleside sub-population; a substantial increase from the previous total of nine plants. The new plants are located on the lower section of a large sheer cliff, approximately 300 meters south of the previously known plants, where groundwater seepage is present. These plants bring the total population for the Ambleside site, from both the East and West sub-populations to approximately 609 plants.

The Cascades Walk site has a stable population of 22 plants.

Little Murray Lookout site contains only a single known plant. Consideration will be given to closing this location as a site, given the more substantial populations at the other locations.

Approximately 100,000 seeds were harvested from mature plants at the Ambleside (20,000) and Cascade sites (80,000) and are now stored *ex-situ*, at the Mt Annan Botanical Gardens seedbank.

Priority management site: Little Murray Lookout

<p>Local government area: Bellingen</p> <p>Partners: None</p>	<p>Population outcome</p> <ul style="list-style-type: none"> ● On track ● On track (inferred) ● Not on track (inferred) ● Not on track
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Monitoring

Species population monitoring by one or more methods indicates response to management over time and provides an outcome measure.

Monitoring metric	Species abundance
Annual target	Maintain existing population at the site, with no further decrease (1 individual recorded in 2017-18).
Long term target	Maintain or improve species abundance / condition over time.
Monitoring result	The single individual plant is still present.
Scientific rigour of monitoring method	Low
Conducted by	Office of Environment and Heritage

Site summary

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Saving our Species 2018-2019 annual report card for Silver Sword Lily (*Neoastelia spectabilis*). For more information refer to the specific strategy in the Saving our Species program.