

## Saving our Species 2017-2018 annual report card

Warty Zieria

#### **Species attributes**

Scientific name	Zieria tuberculata
NSW status	Vulnerable
Commonwealth status	Vulnerable
Management stream	Site-managed species



Photographer: Barry Collier

## **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)

## Summary

Management sites	Gulaga National Park (North-West); Little Dromedary; Tilba Tilba private property	
Action implementation	6 of 6 management actions were fully or partially implemented as planned for the financial year.	
Total expenditure	\$52,620 (\$29,458 cash; \$23,162 in-kind)	
Partners	Eurobodalla Shire Council; NSW Environmental Trust; Office of Environment and Heritage	

Saving our Species 2017-2018 annual report card for Warty Zieria (Zieria tuberculata) For more information refer to the specific strategy in the Saving our Species program



# Management site 1: Gulaga National Park (North-West)

Local Government Area	Eurobodalla
Estimated species population size	Approximately 260 plants
Partners	Eurobodalla Shire Council; NSW Environmental Trust; Office of Environment and Heritage

## **Population status**

On track	On track (inferred)	Not on track (inferred)	Not on track	Not determined
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## Monitoring

Long term target	Maintain a viable and reproducing population across the species' range at the site.
Annual target	A total population count at all historical quadrats is undertaken and abundance is compared with historical data to establish a population trend.
Monitoring metric	Species abundance
Monitoring result	Approximately 260 plants
Confidence in monitoring	Moderate
Conducted by	Office of Environment and Heritage

#### Investment

Participant	Cash	In-kind
NSW Environmental Trust	\$3,880	\$0
Office of Environment and Heritage	\$0	\$1,252



## **Management actions**

The following actions (including research and survey actions) are those identified as being required in financial year 2017-2018 to secure the species in the wild.

Threat	Management action	Implemented as planned?
Risk of wildfire destroying local populations.	Liaise with local management agencies to ensure species location and fire regime requirements are known.	Yes
Woody weed invasion, particularly <i>Lantana</i> , resulting in loss of habitat.	Weed control should target juvenile <i>Lantana</i> at this site in this period and prepare for further control in adjacent areas in coming years.	Yes

#### Threat status

The following critical threat was monitored at this site during financial year 2017-2018.

Threat	Annual target	Threat status	Confidence in monitoring
Woody weed invasion, particularly <i>Lantana</i> , resulting in loss of habitat.	<i>Lantana</i> in the immediate vicinity (<25 m) of known <i>Zieria tuberculata</i> populations is eradicated if present and maintained at less than 1% cover.	On track	Moderate

#### Site summary

Monitoring undertaken this year indicates that the population at this site remains stable, however juvenile recruitment is low. The threat of woody weed invasion within 25 m of the species remains <2% cover however there is significant *Lantana* infestation in adjacent areas that will require access management and control in coming years to mitigate against encroachment.



# Management site 2: Little Dromedary

Local Government Area	Eurobodalla
Estimated species population size	490 plants
Partners	Eurobodalla Shire Council; NSW Environmental Trust; Office of Environment and Heritage

## **Population status**



## Monitoring

Long term target	Maintain a viable and reproducing population across the species' range at the site.	
Annual target	Population numbers are stable or increasing.	
Monitoring metric	Species abundance	
Monitoring result	Estimated as stable at 490 plants, however there is very little or nil juvenile recruitment.	
Confidence in monitoring	Low	
Conducted by	Eurobodalla Shire Council; Office of Environment and Heritage	

#### Investment

Participant	Cash	In-kind
NSW Environmental Trust	\$2,825	\$0
Office of Environment and Heritage	\$0	\$939

#### **Management actions**

The following action is identified as being required in financial year 2017-2018 to secure the species in the wild.

Threat	Management action	Implemented as planned?
Woody weed invasion, particularly <i>Lantana</i> , resulting in loss of habitat.	Assess and plan control strategy, including provision of water capture and storage near the summit to facilitate splatter gun control.	Yes

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## Threat status

The following critical threat was monitored at this site during financial year 2017-2018.

Threat	Annual target	Threat status	Confidence in monitoring
Woody weed invasion, particularly <i>Lantana</i> , resulting in loss of habitat.	<i>Lantana</i> density at the largest population are maintained at levels <5%. Any new occurrences are controlled at time of discovery.	On track	Moderate

#### Site summary

The population at this site was visited in August 2017 and was established as stable and healthy, however a full population count was not undertaken due to time constraints and the need to assess all the historical populations prior to planning weed control efforts. There was some evidence of plant stress due to dry conditions, particularly in exposed areas. There is a high risk of *Lantana* infestation from adjacent areas in the absence of control. A plan for which has been developed by the local working group to be implemented in 2018-19.



## Management site 3: Tilba Tilba private property

Local Government Area	Eurobodalla	
Estimated species population size	1000 plants	
Partners	Eurobodalla Shire Council; NSW Environmental Trust; Office of Environment and Heritage	

## **Population status**



## Monitoring

Long term target	Maintain a viable and reproducing population across the species' range at the site.
Annual target	Populations at all subsites are stable or increasing.
Monitoring metric	Species abundance
Monitoring result	Species abundance has generally increased at all quadrats since the most recent surveys conducted in 2013.
Confidence in monitoring	High
Conducted by	Eurobodalla Shire Council; Office of Environment and Heritage

#### Investment

Participant	Cash	In-kind
NSW Environmental Trust	\$16,208	\$0
Office of Environment and Heritage	\$6,545	\$20,971



## **Management actions**

The following actions (including research and survey actions) are those identified as being required in financial year 2017-2018 to secure the species in the wild.

Threat	Management action	Implemented as planned?
Grazing and trampling of plants and habitat by grazing stock.	Assess impact, if any, of changed grazing management on species recruitment and condition at the Bellbrook and England properties.	Yes
Most sites are on private land. Whilst many of the current owners are supportive of protecting this species, future owners of the properties may not be as sympathetic to the protection of the species.	Continue to assess the possibility of voluntary management agreements with private landholders.	Yes
Woody weed invasion, particularly <i>Lantana</i> , resulting in loss of habitat.	Continue manual and chemical weed control at priority infestations within this site including England, Mount Dromedary Fire Trail, Bellbrook and Tilba Reservoir.	Yes

#### Threat status

The following critical threats were monitored at this site during financial year 2017-2018.

Threat	Annual target	Threat status	Confidence in monitoring
Most sites are on private land. Whilst many of the current owners are supportive of protecting this species, future owners of the properties may not be as sympathetic to the protection of the species.	Land-use practices are consistent with maintaining the species at the site.	On track	High
Woody weed invasion, particularly <i>Lantana</i> , resulting in loss of habitat.	Lantana densities are maintained below 10% cover when averaged across all monitoring sites. Some monitoring sites are expected to have Lantana densities >10% and some are expected to have Lantana densities significantly <10%.	Not detectable	Moderate

#### Site summary

This site has received the most significant investment this financial year. At least 11 hectares of lantana control has been undertaken and historic quadrats have been resurveyed for the first time since 2013, indicating a stable and increasing population in general.