



## SAVING OUR SPECIES

# Small Scurf-pea

2020-2021 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)

### Summary

<b>Management sites</b>	Biin Birri; Grubben Travelling Stock Reserve; Tarcutta Hills; Woodend Travelling Stock Reserve
<b>Action implementation</b>	10 (of 10) management actions were fully or partially implemented as planned for the financial year.
<b>Total expenditure</b>	\$12,826 (\$8,996 cash; \$3,830 in-kind)
<b>Partners</b>	Bush Heritage Australia; Environment, Energy and Science



**Scientific name:**  
*Cullen parvum*

**NSW status:**  
Endangered

**Commonwealth status:**  
Not listed

**Management stream:**  
Site-managed species





Photo: Laura Canackle

# Priority management site: Biin Birri

**Local government area:**  
Hilltops

**Partners:**  
Environment, Energy and  
Science

## 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.*

<b>Monitoring metric</b>	Species abundance
<b>Annual target</b>	Baseline data collection to track seasonal fluctuations within population.
<b>Long term target</b>	Increase the population at the site to at least 250 individuals and maintain above this level.
<b>Monitoring result</b>	Total count of 125 plants found across survey.
<b>Scientific rigour of monitoring method</b>	High
<b>Conducted by</b>	Environment, Energy and Science

## Investment

Participant	Cash	In-kind
Environment, Energy and Science	\$1,115	\$1,170

## Management actions

*The following actions are those identified as being required in financial year 2020-2021 to secure the species in the wild.*

Threat	Management action	Implemented as planned?
Changes to agricultural practices (e.g. introduction of cropping).	Plants at Australian National Botanic Gardens seed orchard producing seed.	Yes
Changes to agricultural practices (e.g. introduction of cropping).	Maintain positive relationship with land manager.	Yes
Competition with invasive pasture grasses and other weeds.	Hand weed within fenced area.	Yes
Poor knowledge of the species' population size and distribution.	Survey within 'Big paddock'; to locate additional individuals.	Yes

## Threat outcome

Assessment on the status of critical threats at this site.

Threat	Annual target	Threat status
Poor knowledge of the species' population size and distribution.	Population extent remains the same or increases.	Not assessed
Small population size.	At least 50% survivorship of planted individuals.	On track
Competition with invasive pasture grasses and other weeds.	No invasive pasture grass species within population.	On track
Changes to agricultural practices (e.g. introduction of cropping).	No disturbance from agriculture to plants within population.	On track

## Site summary

Overall there was a slight drop in numbers (132 plants in 2019, 125 plants in 2020) at this site despite the discovery of additional plants on the other side of the dam and immediately south of the new fence. Flowering was poor despite good rain which also led to an increase in weeds (Paterson's curse, scotch thistle and annual grasses). Due to poor flowering, no seed was collected. Poor flowering was also observed in the *ex situ* seed orchard at the Australian National Botanic Gardens, however, this may also be due to the plants being quite young.

# Priority management site: Grubben Travelling Stock Reserve

**Local government area:**  
Lockhart

**Partners:**  
Environment, Energy and  
Science

## Population outcome



On track



**On track (inferred)**



Not on track (inferred)



Not on track

The species population is inferred to be on track based on threat management being on track. The population trend is unknown at this time.

## Monitoring

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

Baseline monitoring conducted.

<b>Monitoring metric</b>	Species abundance
<b>Monitoring result</b>	1000+ plants
<b>Scientific rigour of monitoring method</b>	Moderate
<b>Conducted by</b>	Environment, Energy and Science

## Investment

Participant	Cash	In-kind
Environment, Energy and Science	\$2,572	\$0

## Management actions

*The following actions are those identified as being required in financial year 2020-2021 to secure the species in the wild.*

Threat	Management action	Implemented as planned?
Intensive grazing by stock.	Liaise with Riverina Local Land Services about any action and survey on Grubben Travelling Stock Reserve.	Yes
Poor knowledge of the species' population size and distribution.	Survey in nearby travelling stock reserves with suitable habitat.	Yes

## Threat outcome

Assessment on the status of critical threats at this site.

Threat	Annual target	Threat status
Intensive grazing by stock.	Ensure grazing regime is appropriate for the species/community.	On track
Clearing of habitat.	No new clearing observed within population.	On track
Poor knowledge of the species' population size and distribution.	Survey undertaken to understand the distribution of species within Grubben Travelling Stock Reserve.	On track

## Site summary





This site had a huge jump in numbers, all concentrated in the one area near the dam. As with other *Cullen parvum* sites, little flowering was observed and there was an observed increase in weeds. Illegal firewood removal continues to occur at this site, as does rubbish dumping.

# Priority management site: Tarcutta Hills

**Local government area:**  
Wagga Wagga

**Partners:**  
Bush Heritage Australia;  
Environment, Energy and  
Science

## Population outcome

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

The species population is inferred to be on track based on threat management being on track. The population trend is unknown at this time.

## Monitoring

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

<b>Monitoring metric</b>	Species abundance
<b>Annual target</b>	Locate <i>Cullen parvum</i> record at Tarcutta Hills Bush Heritage Reserve.
<b>Long term target</b>	A viable population of <i>Cullen parvum</i> is present at the site.
<b>Monitoring result</b>	0
<b>Scientific rigour of monitoring method</b>	Low
<b>Conducted by</b>	Bush Heritage Australia

## Investment

Participant	Cash	In-kind
Bush Heritage Australia	\$0	\$1,600
Environment, Energy and Science	\$2,737	\$1,060

## Management actions

The following actions are those identified as being required in financial year 2020-2021 to secure the species in the wild.

Threat	Management action	Implemented as planned?
Clearing of habitat.	Locate population.	Yes
Poor knowledge of the species' population size and distribution.	Presence of population at this site.	Yes

## Threat outcome

*Assessment on the status of critical threats at this site.*

Threat	Annual target	Threat status
Clearing of habitat.	No clearing of habitat.	Not assessed
Poor knowledge of the species' population size and distribution.	Presence of population at this site.	On track

## Site summary





Despite thorough searching, this population could not be relocated. As a Bush Heritage reserve, the site is secure and has enthusiastic managers, making it a good candidate for future translocation opportunities.

# Priority management site: Woodend Travelling Stock Reserve

**Local government area:**  
Lockhart

**Partners:**  
Environment, Energy and  
Science

## Population outcome

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

The species population is inferred to be on track based on threat management being on track. The population trend is unknown at this time.

## Monitoring

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

Baseline monitoring conducted.

<b>Monitoring metric</b>	Species abundance
<b>Monitoring result</b>	378 plants counted.
<b>Scientific rigour of monitoring method</b>	High
<b>Conducted by</b>	Environment, Energy and Science

## Investment

Participant	Cash	In-kind
Environment, Energy and Science	\$2,572	\$0

## Management actions

*The following actions are those identified as being required in financial year 2020-2021 to secure the species in the wild.*

Threat	Management action	Implemented as planned?
Intensive grazing by stock.	Survey undertaken to understand the distribution of species within Woodend Travelling Stock Reserve.	Yes
Poor knowledge of the species' population size and distribution.	Survey in nearby Travelling Stock Reserves with suitable habitat.	Yes



## Threat outcome

Assessment on the status of critical threats at this site.

Threat	Annual target	Threat status
Intensive grazing by stock.	No loss due to grazing.	On track
Clearing of habitat.	No new clearing within population.	On track
Poor knowledge of the species' population size and distribution.	Population number remains constant or increases.	On track

## Site summary

This site has had a drop in numbers, but this could be due to the survey area not being consistent between counts, as the personnel undertaking the survey have changed. The variability in numbers between years may be an indication of detectability during good and bad seasons, as this site has fluctuated up to 50%.

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Saving our Species 2020-2021 annual report card for Small Scurf-pea (*Cullen parvum*). For more information refer to the specific strategy in the Saving our Species program.