



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.

Summary

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



Scientific name: Cullen parvum

NSW status: Endangered

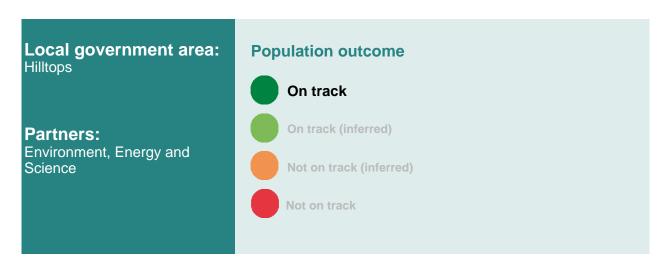
Commonwealth status:
Not listed

Management stream: Site-managed species

Photo: Laura Canackle

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

Priority management site: Biin Birri



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

Investment

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

Management actions

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

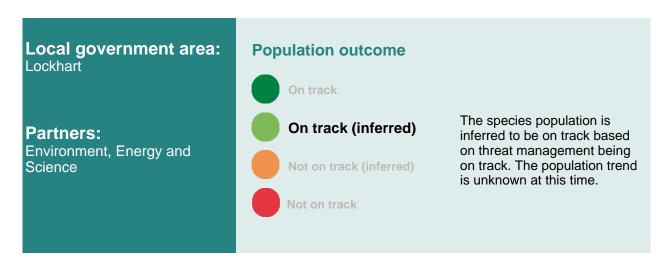
Assessment on the status of critical threats at this site.

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



Monitoring

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

Baseline monitoring conducted.

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

Investment

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

Management actions

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

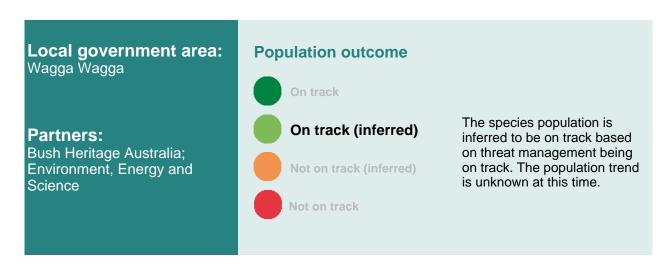
Assessment on the status of critical threats at this site.

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



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	Locate Cullen parvum record at Tarcutta Hills Bush Heritage Reserve.
Long term target	A viable population of Cullen parvum is present at the site.
Monitoring result	0
Scientific rigour of monitoring method	Low
Conducted by	Bush Heritage Australia

Investment

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

Management actions

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

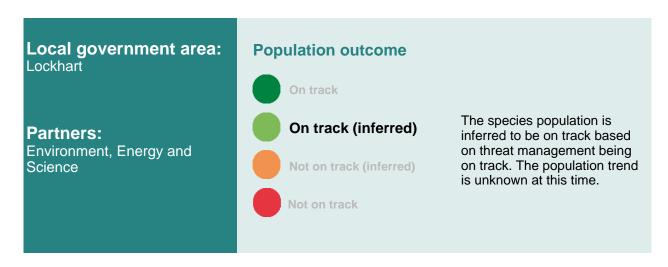
Assessment on the status of critical threats at this site.

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



Monitoring

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

Baseline monitoring conducted.

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

Investment

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

Management actions

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

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%.

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.