

Annual Report

Brown Mountain Reserve 2018-19



www.tasland.org.au

Introduction

The Tasmanian Land Conservancy (TLC) protects important natural areas as permanent reserves and aims to demonstrate excellence in reserve management for biodiversity conservation. The TLC has adopted an adaptive management framework – the Open Standards for the Practice of Conservation which comprises 5 key steps – planning, implementing, monitoring, reporting, review/adaptation and communication.

Brown Mountain Reserve was acquired by the TLC in 2007 and protects 86 hectares of wet eucalypt forest on the slopes of Mount Field in southern Tasmania. The Reserve is surrounded by state forest and private land managed for forestry. The management of the Reserve is guided by the Brown Mountain Reserve Management Plan. The plan is implemented by TLC staff through an Annual Work Plan and Monitoring Plan. Details of ecological monitoring methods can be found in TLC's Ecological Monitoring Procedures Manual on www.tasland.org.au.

This report describes progress made towards delivery of the management plan in 2018-19, and is divided into three sections:

- 1. Reserve Scorecard a table summarising the results of management effectiveness and ecological monitoring to date;
- 2. Management Effectiveness Summary providing details of the implementation of key management strategies and making recommendations for plan improvement;
- 3. Ecological Monitoring Summary providing details of the status of conservation targets and trends of key ecological indicators.

The recommendations made in this report are used to adapt and improve management of the Reserve, update the management plan, and revise work and monitoring plans for the coming year. Key findings of this report are communicated to TLC Board, supporters and other stakeholders.

Monitoring			
Target	Indicator	Status 2017-18	Status 2018-19 Trend
	Floristic diversity	6.75 species/site	
	Structural complexity	3.4 strata/site	Trend data due to be
Wet eucalypt forest	Recruitment	1.25 cohorts/site	collected in late 2019
	Vertebrate fauna diversity	6 species	
		96% native	
Management Effectiveness			
Strategy	Indicator	Status 2017-18	Status 2018-19 Trend
Community engagement and	# of volunteer activities	0 event - 0 vol days	0 event - 0 vol day – no
connection to the landscape			change
	# visitors to the Reserve	Unknown – suspect	Unknown – suspect low -
		low	no change
	# research and education projects	2 (invertebrates /	1 photographer - decrease
		lyrebird research)	
Fire management	# of unplanned fires	0 unplanned fires	0 unplanned fires – no
			change

Brown Mountain Reserve Scorecard 2018-19

Cover image: 2019 aerial of Brown Mountain Reserve: photo Rob Blakers

Monitoring Summary

Wet Eucalypt Forest		Status: Good	
Goal: The condition of the targe	et is maintained or improved	Outcome: Trend data due 2019	
Target Description: The vegetation of Brown eucalypt forest dominate <i>regnans</i> – the world's tall understorey is dominated rainforest species such m ferns. The forest is regene logging in the 1980s. Lyre	Mountain Reserve is wet d by mature <i>Eucalyptus</i> est flowering plant. The I by broadleaved shrubs and yrtle, sassafras and tree erating following selective	Undisturbed wet forest at Brown Mountain: photo R Blakers	
Ecological indicator	Status 2017-18	Status 2018-19 -Trend	
Floristic diversity	6.25 species/site		
	16 species total	Unknown, monitoring established in Dec	
Structural complexity	3.4 strata/site	2016 and trend data due in late 2019	
<u> </u>			
Canopy recruitment Vertebrate fauna diversity	1.25 cohorts/site 6 species - 96% native		

Key findings in 2018-19

- Four vegetation and fauna monitoring sites were established in Dec 2016 and four invertebrate samples were collected from each of the monitoring sites using pitfall traps.
- No further information has been gathered as monitoring is due to be repeated in late 2019.
- An UTAS Hons student Damien Ashlin studying lyrebirds was taken on-site in April 2018 investigating 'Effects of the introduced superb lyrebird on forest-litter loads and fire risk in Tasmania', but no follow up information has been provided
- To-date vegetation is assessed as in good condition and regenerating well since historic logging activity.

Recommendations

- Repeat long-term monitoring in late 2019 including invertebrate sampling at each site
- Follow-up results of the research project on lyrebirds and fire

Management Effectiveness Summary

Community engagement and connection to the landscape Key objective(s) Status 2018-19 • TLC provides opportunities for the community No change to experience or benefit from the Reserve through education, recreation, research and volunteering **Strategy description** Research students investigating lyrebirds: Photo R Hamer Brown Mountain Reserve provides the community with a range of recreational, educational, research and volunteering opportunities. The local community, volunteers, the indigenous community and other stakeholders are encouraged to participate in planning and land management activities and for education and scientific research.

Indicator	Status 2017-18	Status 2018-19 - Trend
# of volunteer activities at the Reserve	0 event - 0 vol days	0 event - 0 vol day – no change
# research and education projects	2 (invertebrates / lyrebird research)	1 photographer - decrease
# visitors to the Reserve	Unknown – suspect low	Unknown – suspect low -no change

Progress in 2018-19

- No TLC events were held this year but Rob Blakers (wilderness photographer) was contracted to update photo stocks.
- Access to the Reserve was maintained, no visitor numbers recorded but suspected as low.
- Bushwalkers continue to occasionally access the Reserve on route to Manny's Marsh but this is likely to be very low.

Key recommendations for future management

- Maintain access to the Reserve and continue to pursue right of way with Norske Skog.
- Ask the local bushwalkers to let us know when they are going there, so that TLC can monitor visitation.

 Key objective(s) No unauthorise (ongoing) 	d fires occur on the r	eserve	Status 2018-19 On Track
Strategy description An inappropriate fire re- condition of the natura Mountain Reserve. The local communities also considered. The vegetation at Brow and the surrounding ard forest, which has an op of >100 years, and is ne- by more frequent fires. A fire risk assessment h the Reserve presents a communities due to the nearby communities.	I values at Brown impact of fire on needs to be n Mountain Reserve ea is wet eucalypt timum fire interval egatively impacted as determined that low risk to local	Fire sensit	tive values of Brown Mountain forest. Credit: Rowent Hame
Indicator	Status 2017-18		Status 2018-19 - Trend
No. of unplanned fires	0 unplanned fires		0 unplanned fires – no change

- A fire risk assessment was completed for all TLC reserves.
 A fire management policy for all TLC Reserves is being implemented.
- A fuel stove only policy is in place for this Reserve.
- A whole-of-TLC fire management strategy has been developed to ensure all TLC properties are effectively managed from threats relating to fire, and that fire is used appropriately as a tool to manage the values of TLC properties.

Key recommendations for future management

- Maintain vehicle access to the nearest track junction.
- Continue to implement a fuel stove only policy for the Reserve.
- Continue to implement the whole-of-TLC fire management strategy.