



Cactus Dryandra (*Banksia anaton*). Image: Australian Network for Plant Conservation

# Appendix 9

## Post-fire prioritization of conservation actions

This document is an appendix from: April E. Reside, Michelle Ward, C.J. Yong, James E.M. Watson, Andrew Rogers, Ruben Venegas Li and Josie Carwardine. (2021) A knowledge synthesis to inform a national approach to fighting extinction - Final Report. NESP Threatened Species Recovery Hub Project 7.7 report, Brisbane.

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Supplementary Table FIR-01. Overview of threats, broad-level actions, tenure of actions, sub-actions, burnt/unburnt habitat, location of action, SOS action name, and cost/ha.

Threats	Broad-level actions	Tenure	Sub-actions	Burnt/unburnt	Location of action	SOS Cost	AUD/Ha	Total AUD/HA (rounded)	Total AUD/Km <sup>2</sup> (rounded)
<b>Habitat loss, degradation, fragmentation</b>	Habitat retention	Private	Covenant Signs	Burnt and unburnt habitats	Across entire species distribution	Land manager advice - sign installation	0.97	1.02	102
						Land manager co-ordination	0.05		
						Land manager consultation	0.0009		
						Land manager negotiation	0.001		
		Public	PA			PA derived from grey literature	14.1		
<b>Inappropriate fire regimes</b>	Fire management	Private	Fire suppression	Unburnt and low and moderate fire severity	Across unburnt and low and moderate burnt areas	Active fire suppression	0.7	0.7	70
		Public				Active fire suppression	0.7	0.7	70
<b>Invasive weeds</b>	Invasive weed management	Public and private	Weeding	Burnt habitats	Target threat	Broad-scale weed control	20.38	20.38	2,038
		Public	Prevent access into habitats			Barrier/fence installation	4.6	4.6	460
<b>Livestock grazing</b>	Grazing management	Private	Fencing, monitoring, lost opportunity cost	Burnt and unburnt habitats	Target threat	Stock fencing	10.2	21.66	2,166
						Monitoring threat reduction	11.46		
						Lost opportunity costs	Spatially		

							variable		
<b>Recreational activities</b>	Recreation management	Public	Signs, monitoring (cameras)	Burnt and unburnt habitats	Target threat	Install signage	1.29	2.21	221
						Install security cameras	0.92		
<b>Phytophthora</b>	Phytophthora management	Private	Covenant Signs Monitor	Burnt and unburnt habitats	Avoid threat	Land manager advice - sign installation	0.97	3.71	371
						Land manager co-ordination	0.05		
						Land manager consultation	0.0009		
						Land manager negotiation	0.001		
		Monitoring for evidence of disease	2.69						
			Public			Signs Monitor PA		Install signage	1.29
				Monitoring for evidence of disease	2.69				
				PA derived from grey literature	14.1				
<b>Invasive pigs</b>	Invasive pig management	Private and public	Baits	Unburnt	Target threat	Pig control: 1080 baiting (ground)	0.28	0.28	28
		Public	Baits, traps, aerial shooting, ground shooting	Burnt		Pig control:	8	17.99	1,799
						Pig trapping (traps, vehicle, staff)			
						1080 baiting (ground)	0.28		
			Aerial shooting (helicopter, staff, ammunition)	8.89					
			Ground shooting (vehicle, staff, ammunition)	0.82					

		Private	Baits, traps, ground shooting			Pig control: Pig trapping (traps, vehicle, staff)	8	9.10	910
						1080 baiting (ground)	0.28		
						Ground shooting (vehicle, staff, ammunition)	0.82		
<b>Invasive cats</b>	Invasive cat management	Public and private	Baits, traps	Burnt	Target threat	Cat control: 1080 baiting (ground)	0.28	1.28	128
		Private and public	Baits	Unburnt		Cat leg-hold trapping (contractor)	1		
						Cat control: 1080 baiting (ground)	0.28	0.28	28
<b>Invasive foxes</b>	Invasive fox management	Public and private	Baits, traps	Burnt	Target threat	Fox control: 1080 baiting (ground)	0.28	0.28	128
		Private and public	Baits	Unburnt		Cat leg-hold trapping (contractor)	1		
						Fox control: 1080 baiting (ground)	0.28	0.28	28
<b>Problematic native herbivores</b>	Native herbivore management	Private and public	Small fence around impacted species, supplementary feeding of problematic native herbivores	Burnt	Target threat	Fencing - exclude macropods	51.33	51.33	5,133
<b>Invasive goats</b>	Invasive goat	Public	Ground shooting, aerial shooting	Burnt	Target threat	Goat control: Aerial shooting (helicopter, staff, ammunition)	8.89	9.71	971

	managemen t					Ground shooting (vehicle, staff, ammunition)	0.82		
		Priva te	Ground shooting	Burnt		Ground shooting (vehicle, staff, ammunition)	0.82	0.82	82
		Publi c and privat e	Ground shooting	Unburnt		Ground shooting (vehicle, staff, ammunition)	0.82	0.82	82
<b>Loss of resources</b>	Provision of supplement ary resources	Publi c and privat e	Supplement ary resources	Burnt habitats	Target burnt sites	Artificial nesting boxes	50.6	52.80	5,280
						Supplementa ry feeding	2.2		
<b>Logging</b>	Forestry managemen t	Priva te	Covenant	Burnt and unburnt habitats	Target threat	Land manager advice - sign installation	0.97	1.02	102
						Land manager co- ordination	0.05		
						Land manager consultation	0.0009		
						Land manager negotiation	0.001		
		Publi c	PA			PA derived from grey literature	14.1	14.1	1,410
<b>Chytrid fungus</b>	Chytrid managemen t	Priva te	Covenant Signs Monitor	Burnt and unburnt habitats	Avoid threat	Land manager advice - sign installation	0.97	3.71	371
						Land manager co- ordination	0.05		
						Land manager consultation	0.0009		
						Land manager negotiation	0.001		
						Monitoring for evidence of disease	2.69		

		Public	Signs Monitor PA			Install signage	1.29	18.01	1,801
						Monitoring for evidence of disease	2.69		
						PA derived from grey literature	14.1		
<b>Invasive rabbits</b>	Invasive rabbit management	Private	Fences, baits, ground shooting	Burnt	Target threat	Rabbit control: Ground shooting (vehicle, staff, ammunition)	0.82	33.69	3,369
						Rabbit fence (labour + materials)	4.64		
						Rabbit control - fence	27.95		
						1080 baiting (ground)	0.28		
		Public	Fences, baits, ground shooting	Burnt		Rabbit control: Ground shooting (vehicle, staff, ammunition)	0.82	33.69	3,369
						Rabbit fence (labour + materials)	4.64		
			Rabbit control - fence	27.95					
			1080 baiting (ground)	0.28					
		Private and public	Fences	Unburnt	Rabbit fence (labour + materials)	4.64	32.59	3,259	
					Rabbit control - fence	27.95			
	Invasive horses	Private	Ground shooting	Burnt	Target threat	Ground shooting	0.82	0.82	82

<b>Invasive horses</b>	managemen t					(vehicle, staff, ammunition)			
		Publi c	Aerial shooting, ground shooting	Burnt		Aerial shooting (helicopter, staff, ammunition)	8.89	10	971
						Ground shooting (vehicle, staff, ammunition)	0.82		
		Priva te and publi c	Ground shooting	Unburnt		Ground shooting (vehicle, staff, ammunition)	0.82	0.82	82
<b>Feral cattle</b>	Feral cattle managemen t	Priva te	Ground shooting	Burnt		Ground shooting (vehicle, staff, ammunition)	0.82	0.82	82
		Publi c	Aerial shooting, ground shooting	Burnt	Target threat	Aerial shooting (helicopter, staff, ammunition)	8.89	10	971
						Ground shooting (vehicle, staff, ammunition)	0.82		
		Priva te and publi c	Ground shooting	Unburnt		Ground shooting (vehicle, staff, ammunition)	0.82	0.82	82
<b>Aerial canker and myrtle rust</b>	Aerial canker and myrtle rust managemen t	Priva te	Covenant	Burnt and unburnt habitats	Avoid threat	Land manager advice - sign installation	0.97	3.7	371
			Signs			Land manager co- ordination	0.05		
			Monitor			Land manager consultation	0.0009		
						Land manager negotiation	0.001		

						Monitoring for evidence of disease	2.69		
		Public	Signs Monitor PA			Install signage	1.29	18	1,808
						Monitoring for evidence of disease	2.69		
						PA derived from grey literature	14.1		
<b>Problematic native plants</b>	Habitat management for problematic native plants	Public and private	Weeding	Burnt habitats	Target threat	Broad-scale weed control	20.38	20.38	2,038
		Public	Prevent access into habitats			Barrier/fence installation	7.6	7.6	760
<b>Other fungal pathogens</b>	Other fungal pathogens management	Private	Covenant	Burnt and unburnt habitats	Avoid threat	Land manager advice - sign installation	0.97	3.7	371
			Signs			Land manager co-ordination	0.05		
			Monitor			Land manager consultation	0.0009		
						Land manager negotiation	0.001		
			Monitoring for evidence of disease			2.69			
		Public	Signs Monitor PA			Install signage	1.29		
						Monitoring for evidence of disease	2.69		
						PA derived from grey literature	14.1		
<b>Invasive rodents</b>	Invasive rodent management	Private and public	Baits	Burnt and unburnt habitats	Target threat	Rodent control	188.9	189.9	18,890
	Invasive deer	Public	Ground shooting	Burnt	Target threat	Ground shooting (vehicle,	0.82	9.71	97



Invasive deer	managemen t		Aerial shooting			staff, ammunition)			
						Aerial shooting (helicopter, staff, ammunition)	8.89		
		Private and Public	Ground shooting	Unburnt habitats		Ground shooting (vehicle, staff, ammunition)	0.82	0.82	82

**Further information:**

<http://www.nespthreatenedspecies.edu.au>

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