

Supplementary material

Is fire a threatening process for *Liopholis kintorei*, a nationally listed threatened skink?

Danae Moore^{A,B,F}, Michael Ray Kearney^C, Rachel Paltridge^D, Steve McAlpin^E and Adam Stow^A

^ADepartment of Biological Sciences, Macquarie University, North Ryde, NSW 2109, Australia.

^BAustralian Wildlife Conservancy, Newhaven Wildlife Sanctuary, P.M.B. 146, Alice Springs, NT 0872, Australia.

^CDepartment of Zoology, The University of Melbourne, Vic. 3010, Australia.

^DDesert Wildlife Services, PO Box 4002, Alice Springs, NT 0871, Australia.

^EDepartment of Environment and Rural Sciences, University of New England, Armidale, NSW 2351, Australia.

^FCorresponding author. Email: danae.moore@bigpond.com

Table S1. The estimated mean ground cover at each *Liopholis kintorei* burrow system before and after experimental burns across experimental burn type: a. clean burn; b. patchy burn, and; c. no burn.

Treatment	Mean ground cover before experimental burns (%)	Mean ground cover after experimental burns (%)
Clean burn	62	0
Patchy burn	62	35
No burn	59	59

Table S2. The number of *Liopholis kintorei* burrow systems that were sampled under different fire treatments (*n*) and the percentage of *Liopholis kintorei* burrow systems that remained occupied at least one month and four months post experimental burns

Treatment	<i>n</i>	Occupancy one month post experimental burn (%)	Occupancy four months post experimental burn (%)
Clean burn	10	100	40
Patchy burn	10	100	80
No burn	10	100	100

Table S3. The percentage of occupied and unoccupied *Liopholis kintorei* burrow systems from the experimental burn site where breeding success over the summer of 2013/2014 was confirmed after the experimental burns were conducted

Treatment	<i>n</i>	Breeding activity (%)
Clean burn	10	30
Patchy burn	10	30
No burn	10	90

Table S4. The percentage occurrence of occupied and unoccupied *Liopholis kintorei* burrow systems across burn type two years after fire and the percentage of occupied burrow systems where breeding success during the summer of 2013/2014 was detected

Burn Category	Occupied (%)	Unoccupied (%)	Breeding success confirmed at occupied burrow systems (%)
Clean burn	8	35	0
Patchy burn	8	12	67
No burn	84	53	56