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The importance of fire in the success of a 15-hectare subtropical heathland translocation

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Table S1. The total diversity for the two heath types and translocation site

Simpson's diversity (D) and Shannon's diversity (H) index values with Shannon's equitability value (E_H) are presented

	Dry heath	Wet heath	Translocation site
Number of species	105	112	150
D	0.01	0.01	
H	4.36	4.46	
E_H	0.94	0.95	

Table S2. List of species on the dry heath list showing the comparison of species present and abundance (%) at the start and end of the original monitoring period (2008/2009 and 2011) and this study (2016)

Abundance is given as a percentage out of transects sampled (twelve transects) where each species was present. Bolded species represent performance criteria listed forage species for *Pezoporus wallicus*

	2008/09	*2011*	*2016*
Acacia attenuata	60	80	60
Acacia longissima	30	30	10
Acacia o'shanesii	10	30	30
Babingtonia bidwillii	80	60	80
Baloskion tetraphyllum	50	60	50
Banksia robur	20	10	10
Baumea juncea	10	0	10
Boronia falcifolia	10	10	20
Boronia rivularis	40	40	40
Burchardia umbellata	0	0	10
Cassytha glabella	30	50	50
Cassytha pubescens	60	50	80
Caustis recurvata	20	20	10
Dianella caerulea	40	30	20
Dillwynia floribunda	10	10	20
Empodisma minus	30	30	80
Entolasia stricta	80	90	80
Epacris pulchella	20	10	20
Eurychorda complanata	20	0	0
Gahnia clarkei	50	50	90
Gahnia sieberiana	90	100	90
Hibbertia salicifolia	20	20	10
Ischaemum australe	20	30	30
Leptospermum liversidgei	10	10	20
Leptospermum semibaccatum	0	0	30
Leptospermum trinervium	30	30	0
Leucopogon ericoides	0	0	0
Leucopogon leptospermoides	30	30	30
Lindsaea ensifolia	70	60	70
Lindsaea linearis	30	0	20
Logania albiflora	0	0	0
Melaleuca quinquenervia	70	60	70
Melastoma malabathricum	80	80	80
Oxylobium robustum	10	30	20
Parsonsia straminea	10	30	30
Phyllota phylicoides	0	0	10
Pultenaea paleacea	50	0	80
Pultenaea villosa	30	30	50
Schoenus apogon	0	20	0
Schoenus brevifolius	80	90	90
Schoenus paludosus	0	0	0
Sowerbaea juncea	10	0	10
Sporadanthus interruptus	30	20	40
Sprengelia sprengelioides	20	0	20
Xanthorrhoea fulva	40	40	40
Zieria minutiflora	40	70	80
Zieria smithii	30	40	60

Table S3. List of species on the wet heath list showing the comparison of species present and abundance (%) at the start and end of the original monitoring period (2009 and 2011) and this study (2016)

Abundance is given as a percentage out of transects sampled (six transects) where each species was present. Bolded species represent performance criteria listed forage species for *Pezoporus wallicus*

	2009	*2011*	*2016*
Acacia melanoxylon	0	0	30
Aotus ericoides	30	30	100
Baloskion pallens	70	70	30
Baloskion tetraphyllum	70	30	0
Baumea articulata	0	0	0
Baumea rubiginosa	100	100	30
Baumea teretifolia	70	70	30
Blechnum indicum	100	100	0
Centella asiatica	30	30	30
Chorizandra sphaerocephala	30	30	0
Cyclosorus interruptus	0	0	0
Dianella caerulea	30	0	0
Gleichenia dicarpa	30	0	0
Hypolepis muelleri	0	0	0
Juncus continuus	70	100	0
Juncus polyanthemus	30	30	0
Juncus usitatus	30	30	0
Lepidosperma longitudinale	0	30	0
Lepironia articulata	0	0	30
Lindsaea ensifolia	70	70	30
Lygodium microphyllum	30	30	0
Melaleuca quinquenervia	100	100	100
Melastoma malabathricum	100	70	0
Parsonsia straminea	70	30	30
Rhynchospora corymbosa	30	30	0
Schoenus apogon	70	100	70
Schoenus paludosus	0	0	0
Sporadanthus caudatus	0	70	0

Table S4. Chi-square results for total species present on the two heath type lists between the three time periods

Years	Df	χ^2	Critical value	*P*
			Dry heath	
2008-09/2011	1	0.63	3.841	0.4274
2008-09/2016	1	0.03	3.841	0.8625
2011/2016	1	1.03	3.841	0.3102
			Wet heath	
2009/2011	1	0	3.841	1
2009/2016	1	3.2	3.841	0.0736
2011/2016	1	3.2	3.841	0.0736

Table S5. List of foraging species for *Pezoporus wallicus* and their abundance (%)

Abundance is given as a percentage of total transects (18) sampled where each species was present. Bolded species represent species that are on the two heath type lists but were not identified at the time as foraging species. A total of 33 species were identified by McFarland (1991). This list shows 26 of them, and the remaining species are bolded in Tables 1 and 2 describing the schedule lists

	Abundance
Baumea juncea	10
Bossiaea heterophylla	10
Conospermum taxifolium	10
Daviesia umbellulata	0
Dianella caerulea	10
Epacris microphylla	10
Epacris obtusifolia	0
Gompholobium pinnatum	30
Gompholobium virgatum	0
Grevillea leiophylla	0
Hibbertia vestita	20
Lepironia articulata	10
Leptocarpus tenax	30
Lepyrodia scariosa	0
Mirbelia rubiifolia	60
Panicum simile	0
Philotheca myoporoides	0
Pimelea linifolia	80
Pseudanthus orientalis	30
Ptilothrix deusta	0
Rhynchospora rubra	0
Schoenus sp.	100
Sporadanthus caudatus	10
Sporodanthus interruptus	60
Themeda triandra	20
Zieria laxiflora	10
Total foraging species present	17/26 (22/33)

Table S6. Summary of species diversity and Foliage Projective Cover (FPC) measures between heath types

Mean species richness, mean Simpson's diversity (*D*), mean Shannon's diversity (*H*), and mean Shannon's equitability (E_H) values are presented. Time since fire (TSF) and mean FPC is shown including FPC range (in parenthesis). Mean values are also given per heath type for all measures

Heath type	*TSF*	Number of species	*D*	*H*	E_H	FPC shrubs <2m
Dry	~17	26	0.05	2.98	0.92	75 (3-88)
Dry	2	39	0.04	3.35	0.91	86 (63-88)
Dry	1	41	0.03	3.39	0.93	82 (3-88)
Mean		33	0.04	3.16	0.92	79
Wet	3	38	0.03	3.38	0.94	85 (63-88)
Wet	1	53	0.03	3.68	0.93	81 (63-88)
Mean		43	0.03	3.49	0.93	84

Table S7. ANOVA results for comparisons between species richness and species diversity (Simpson's index, Shannon's index) and the three time since fire periods (1, 2, ~17 years)

Variable	Df	Sum of squares	Mean square	F value	*P*
Species richness	2	315.2	45	5.34	0.039
Simpson's index (*D*)	2	0.0008	0.0001	3.73	0.106
Shannon's index (*H*)	2	0.638	0.193	5.381	0.038

Table S8. Kruskal-Wallis results for comparisons between Foliage Projective Cover (FPC) and the three time since fire periods (1, 2, ~17 years)

Variable	*N*	Df	H value	*P*
Mean FPC (Shrub stratum <2m)	45	2	2.385	0.303
Mean FPC (Shrub stratum 2-4m)	45	2	15.588	0.000