

**Supplementary material**

**Spatial ecology of an urban eastern grey kangaroo (*Macropus giganteus*) population:  
local decline driven by kangaroo–vehicle collisions**

*Elizabeth A. Brunton*<sup>A,B</sup>, *Sanjeev K. Srivastava*<sup>A</sup> and *Scott Burnett*<sup>A</sup>

<sup>A</sup>University of the Sunshine Coast, Sippy Downs Drive, Sippy Downs, Qld 4556, Australia.

<sup>B</sup>Corresponding author. Email: ebrunton@usc.edu.au

**Table S1. Habitat selection matrix for eastern grey kangaroos at the 2<sup>nd</sup> order of selection across 16 identified habitat types.**

This table shows whether each kangaroo selected for (+), or against (-) each habitat type over the whole study site from Aug–Sep 2014. No preference either of habitat type is indicated by a 0. Na indicates that no locations were recorded within the habitat type.

Habitat Type	Female 1	Female 2	Female 3	Male 1
Banksia woodland	-	-	-	-
Carpark	-	0	0	-
Anthropogenic disturbance	-	-	-	-
Drainage line	+	+	0	+
Garden	0	+	0	-
Lawn, watered	0	+	+	+
Grass, mowed only	-	-	-	-
Grass, not maintained, dry	0	-	-	0
Grass, not maintained, wet	0	-	-	0
Heathland	-	-	-	-
Melaleuca swamp	+	-	-	+
New planting	0	+	+	0
Open eucalypt	+	0	0	+
Paved	0	+	0	0
Road	-	-	-	-
Sports oval	+	-	-	0

**Table S2. Third order habitat selection matrix for eastern grey kangaroos collared Aug–Sep 2014.**

The table shows whether each kangaroo selected for (+) or against (-), each habitat type available within their home range. No preference of habitat type is indicated by a '0'. Habitat types within the study area that were not included in a kangaroo's home range are indicated by 'na'.

Habitat Type	Female 1	Female 2	Female 3	Male 1
Banksia woodland	na	na	na	-
Carpark	-	-	-	-
Anthropogenic disturbance	-	-	-	-
Drainage line	+	0	0	+
Garden	-	0	0	0
Lawn, watered	0	+	+	+
Grass, mowed only	-	-	-	-
Grass, not maintained, dry	na	0	-	+
Grass, not maintained, wet	0	0	0	-
Heathland	-	0	0	-
Melaleuca swamp	+	-	-	+
New planting	na	0	0	0
Open eucalypt	+	+	+	+
Paved	-	0	0	0
Road	-	-	-	-
Sports oval	+	-	-	0