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Supplementary Material

Classifying relationships that define interactions between native and invasive species in Australian ecosystems

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Supplementary Material.

Appendix 1: Additional methods

Methods

The purpose of this paper is to introduce a new framework to direct conservation research effort and better inform management plans in Australian ecosystems. Specifically, we were interested in relationships between invasive and native Australian fauna founded in predation/competition. We chose three aspects that would support this research framework (Arrival/Extinction timeline, Invasive predator diets, Native fauna responses). Each aspect has been reviewed differently, the methods of which represented below.

Invasive & Extinction Timeline

Two preliminary searches were performed on both Web of Science and Scopus. The first was to identify the megafaunal extinction in the Pleistocene and Holocene eras and the second search was to identify species that have gone extinct after European settlement. The first searches were limited to 2020 – 2010 and returned 64 articles from Web of Science; (TS = (Australia AND Extinction AND Megafauna AND (Pleistocene OR Holocene))) AND LANGUAGE:(English) AND DOCUMENT TYPES: (Article), and 55 articles from Scopus; TITLE-ABS-KEY (Australia AND extinction AND megafauna AND (Pleistocene OR Holocene)). For the second set of searches Web of Science returned 33 articles from the search, (TS = (Australia AND Extinction AND Mammal AND European)) AND LANGUAGE: (English) AND DOCUMENT TYPES: (Article), and Scopus returned 35 articles from the search terms; TITLE-ABS-KEY (Australia AND extinction AND mammal AND "European settlement"). Results of these searches were examined until comprehensive lists of extinct and introduced species were compiled. A comprehensive list of invasive species in Australia was compiled from the Global Invasive Species Database. Dates of suggested extinctions and introductions were checked with empirical sources and contentious dates of species that have defined current Australian ecosystems were discussed and supported within the main text. Data was then represented in Figure 1 of the main text.

Invasive Predator Diets

Each of the three invasive predators were searched in Web of Science; **((TS=(diet*)) AND TS=(australia)) AND TS= ("Species name" OR "common name" OR "common name")** and Scopus; **TITLE-ABS-KEY ("Species name") OR TITLE-ABS-KEY ("common name") AND TITLE-ABS-KEY (diet*) AND TITLE-ABS-KEY (australia)**. Searching for species terms (Fox OR "Vulpes vulpes") returned 111 (WOS) and 107 (Scopus) for foxes. For Dingoes ("Wild dog" OR Dingo OR "Canis lupus") returned 74 and 86, respectively, and for Feral cats ("Feral cats" OR "Felis catus") returned 83 and 82, respectively. These lists were searched for dietary studies that presented the dietary data of one or more of these invasive species. Studies that did not record mammalian prey items, or whose mammalian prey items were unable to be identified into this studies groups were ignored. Studies that only recorded a single prey type or group were removed as this would likely skew the data if a study were only looking for a specific species in scats. Citations were searched for additional dietary studies. Overall, 90,735 occurrences of mammalian remains were compiled from 105 studies (Cats 45; Foxes 51; Dingoes 56; Appendix 3). Dietary studies were divided into four bioregions (arid, tropical grasslands and forests, temperate forests, and temperate grasslands and shrublands) and prey items were divided into clades based on size, morphology and phylogeny (Table S1). Data was represented in Figures 2, 3, and 4 of the main text.

Native Fauna Responses

A search was performed in both Web of Science; **(TS = (Australia AND Mammal AND Population AND range AND (Predation OR Competition) AND (Decline OR Risk OR Endangered))) AND LANGUAGE: (English) AND DOCUMENT TYPES: (Article)**, and Scopus; **TITLE-ABS-KEY (Australia AND mammal AND population AND range AND (predation OR competition) AND (decline OR risk OR endangered))**, returning 61 and 59 articles, respectively. A species list was compiled; IUCN status, extirpation data and predation susceptibility from Radford et al. (2018) was obtained for as many species as possible and they were then divided into Critical, Decline and Persist based on these characteristics. Findings were presented in Figure 5 of the main text.

Methods of filming Releases

Work to film releases of Tasmanian Devils and Spotted-tail Quolls was undertaken with the University of Tasmania. Individuals were processed and released according to their protocols and ethics. Prior to release, two cameras (GoPro Hero3+ Black, Wide, 120fps, 960p) were set up perpendicular to one another to film the escape path of the individual. Both cameras were synchronized using the GoPro smart remote. On a successful run (individual caught on at least one camera), a tri-axial wand with the dimensions (38cm) was waved through the space of the escape path and then placed with one axis facing the direction of the escape. The videos were input into video analysis software (DLTdv7; Hedrick 2008). The wand was tagged on either end as it moved through the space and the resulting file, as well as known points that matched in the two videos and an axis were input into a wand calibration tool to give distance to the three-dimensional environment (easyWand, Theriault et al., 2014). After calibrating the space, the animal in the video was tagged during its escape on the base of the tail, tip of the nose and the hind footfall closest to the camera (to determine strides). This gave us the distance travelled during the run and the frame rate of the cameras revealed the duration of the run.

Appendix 2: Dietary results

Table S1: The composition of species that are present in the diets of each Species, divided between Group and bioregion that produce figures 2, 3, and 4. The text under each of the group names identifies the species included in each clade.

| <i>Vulpes vulpes</i> | | | | |
|--|---|---|---|---|
| Group | Arid | Tropical Grasslands and Forests | Temperate Forests | Temperate Grasslands & Shrublands |
| Bandicoots & Allies Peramelemorphia, Potoroidae, Hypsiprymmodontidae | NA | NA | <i>Isoodon macrourus</i> , <i>I. obesulus</i> , <i>Perameles nasuta</i> , <i>Potorous</i> <i>longipes</i> , <i>P. tridactylus</i> | <i>Isoodon macrourus</i> , <i>Perameles</i> <i>nasuta</i> |
| Dasyuridae Dasyuridae, Thylacinidae, Myrmecobiidae. | <i>Dasyercus cristicauda</i> , <i>Ningau ridei</i> , <i>Sminthopsis</i> <i>crassicaudata</i> , <i>S.</i> <i>dolichura</i> , <i>S. hirtipes</i> , <i>S.</i> <i>macroura</i> , <i>S. youngsoni</i> | <i>Sminthopsis macroura</i> , <i>Planigale ingrami</i> | <i>Antechinus agilis</i> , <i>A. flavipes</i> , <i>A.</i> <i>mimetes</i> , <i>A. minimus</i> , <i>A.</i> <i>stuartii</i> , <i>A. swainsonii</i> , <i>Phascogale tapoatafa</i> , <i>Sminthopsis leucopis</i> , <i>S. murina</i> | <i>Antechinus agilis</i> , <i>Ningau</i> <i>yvonneae</i> , <i>Planigale maculata</i> , <i>Sminthopsis crassicaudata</i> , <i>S.</i> <i>longicaudata</i> , <i>S. macroura</i> , <i>S.</i> <i>leucopus</i> , <i>S. murina</i> |
| Invasive Predators | <i>Canis familiaris</i> , <i>Felis</i> <i>catus</i> , <i>Vulpes vulpes</i> | NA | <i>Canis familiaris</i> , <i>Felis catus</i> , <i>Vulpes vulpes</i> | <i>Canis familiaris</i> , <i>Felis catus</i> , <i>Vulpes vulpes</i> |
| Kangaroos Osphranter, Macropus | <i>Macropus robustus</i> , <i>Macropus rufus</i> | <i>Macropus sp.</i> | <i>Macropus fuliginosus</i> , <i>M.</i> <i>giganteus</i> , <i>M. robustus</i> | <i>Macropus fuliginosus</i> , <i>M.</i> <i>giganteus</i> , <i>M. robustus</i> , <i>M.</i> <i>rufus</i> |
| Lagomorphs | <i>Oryctolagus cuniculus</i> | <i>Oryctolagus cuniculus</i> | <i>Lepus capensis</i> , <i>Lepus</i> <i>europaeus</i> , <i>Oryctolagus</i> <i>cuniculus</i> | <i>Lepus capensis</i> , <i>Oryctolagus</i> <i>cuniculus</i> |
| Livestock | <i>Bos taurus</i> , <i>Camelus</i> <i>dromedarius</i> , <i>Capra</i> <i>hircus</i> , <i>Dama dama</i> | <i>Ovis aries</i> , <i>Sus scrofa</i> | <i>Axis porcinus</i> , <i>Bos taurus</i> , <i>Capra</i> <i>hircus</i> , <i>Cervidae sp.</i> <i>Ovis aries</i> , <i>Rusa unicolor</i> , <i>Sus scrofa</i> , <i>Cervus unicolor</i> , <i>Dama dama</i> , <i>Equus caballus</i> | <i>Bos taurus</i> , <i>Capra hircus</i> , <i>Cervus</i> <i>elaphus scoticus</i> , <i>Ovis aries</i> , <i>Sus</i> <i>scrofa</i> |
| Other | <i>Notoryctes typholops</i> | NA | <i>Arctocephalus pusillus</i> <i>doriferus</i> , <i>Chalinolobus sp.</i> <i>Chiroptera sp.</i> , <i>Microchiroptera</i> <i>sp.</i> , <i>Homo sapiens</i> , <i>Nictophilus</i> <i>geoffroyi</i> , <i>Ornithorhynchus</i> <i>anatinus</i> , <i>Pteropus</i> <i>poliocephalus</i> , <i>P. scapulatus</i> , <i>P.</i> <i>alecto</i> , <i>Vombatus ursinus</i> , <i>Tachyglossus aculeatus</i> | <i>Chiroptera sp.</i> , <i>Microchiroptera</i> <i>sp.</i> , <i>Nyctophilus geoffroyi</i> , <i>Tachyglossus aculeatus</i> |
| Possums & Allies Palangeriformes, Phascolarctidae, Dendrolagus | NA | <i>Trichosurus vulpecula</i> | <i>Acrobates pygmaeus</i> , <i>Burramys</i> <i>parvus</i> , <i>Cercartetus nanus</i> , <i>Petauroides volans</i> , <i>Petaurus</i> <i>australis</i> , <i>P. breviceps</i> , <i>P.</i> <i>norfolcensis</i> , <i>Pseudocheirus</i> | <i>Acrobates pygmaeus</i> , <i>Cercartetus lepidus</i> , <i>Petaurus</i> <i>breviceps</i> , <i>P. norfolcensis</i> , <i>Pseudocheirus peregrinus</i> , <i>Trichosurus vulpecula</i> |

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|--|--|--|---|--|
| | | | <i>peregrinus, Schoinobates volans, Trichosurus caninus, T. vulpecula, Phascolarctos cinereus</i> | |
| Native Rodents | <i>Leggadina forresti, Notomys alexis, N. mitchellii, Pseudomys desertor, P. hermannsburgensis, Rattus villosissimus</i> | <i>Pseudomys sp., Rattus villosissimus</i> | <i>Hydromys chryogaster, Mastacomys fuscus, Pseudomys albocinereus, P. apodemoides, P. fumeus, P. gracilicaudatus, P. novaehollandiae, Rattus fuscipes, R. lutreolus,</i> | <i>Notomys mitchellii, Pseudomys P. fumeus, P. hermannsburgensis, P. shortridgei, Rattus fuscipes, R. lutreolus,</i> |
| Wallaby & Allies Lagorchestes Notomacropus, Onychogalea, Petrogale, Thylogale, Wallabia | NA | <i>Aepyprymmyus rufescens</i> | <i>Aepyprymmyus rufescens, Macropus parma, M. rufogriseus, Petrogale pencillata, Thylogale thetis, Wallabia bicolor</i> | <i>Macropus rufogriseus, Petrogale xanthopus, Thylogale thetis, Wallabia bicolor</i> |
| Invasive Rodents | <i>Mus musculus</i> | <i>Mus musculus</i> | <i>Mus musculus, Rattus norvegicus, R. rattus</i> | <i>Mus musculus, Rattus rattus</i> |

Felis catus

| Group | Arid | Tropical Grasslands and Forests | Temperate Forests | Temperate Grasslands & Shrublands |
|--|---|--|---|--|
| Bandicoots & Allies Peramelemorphia, Potoroidae, Hypsiprymnodontidae | <i>Macrotis lagotis</i> | <i>Isoodon macrourus, Perameles nasuta, P. pallescens</i> | <i>Isoodon obesulus, Perameles nasuta</i> | <i>Isoodon auratus, I. fusciventer, Macrotis lagotis, Perameles nasuta</i> |
| Dasyuridae Dasyuridae, Thylacinidae, Myrmecobiidae. | <i>Antechinomys laniger, Dasyercus blythi, D. crassicauda, Dasykaluta rosamondae, Ningaui ridei, Planigale gilesi, P. tenuirostris, Pseudantechinus macdonnellensis, Sminthopsis crassicaudata, S. dolichura, S. gilberti, S. hirtipes, S. longicaudata, S. macroura, S. Ooldea, S. youngsoni</i> | <i>Antechinus godmani, Dasyurus hallucatus, Planigale ingrami, Sminthopsis bindi, S. douglasi, S. macroura, Sminthopsis sp.,</i> | <i>Antechinus stuartii, A. swainsonii, Sminthopsis sp.,</i> | <i>Antechinomys laniger, Antechinus stuartii, A. swainsonii, Dasyercus blythi, Planigale sp., Sminthopsis crassicaudata, S. dolichura, S. longicaudata, S. macroura, S. ooldea, S. youngsoni</i> |
| Invasive Predators | <i>Canis lupus, Felis catus</i> | <i>Felis catus</i> | <i>Felis catus</i> | <i>Felis catus</i> |
| Kangaroos Osphranter, | <i>Macropus robustus, M. rufus</i> | <i>Macropod sp.</i> | <i>Macropus giganteus</i> | <i>Macropus giganteus, M. robustus</i> |

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|--|---|---|--|---|
| Macropus | | | | |
| Lagomorphs | <i>Oryctolagus cuniculus</i> | <i>Oryctolagus cuniculus</i> | <i>Oryctolagus cuniculus</i> | <i>Lepus capensis, Oryctolagus cuniculus</i> |
| Ungulates | <i>Bos taurus, Camelus dromedarius, Ovis aries</i> | <i>Ovis aries</i> | <i>Bos taurus, Capra hircus, Ovis aries, Sus scrofa</i> | <i>Bos taurus, Capra hircus, Ovis aries, Sus scrofa</i> |
| Other | <i>Austronomus australis, Chalinolobus gouldii, Chiroptera sp., Mormopterus sp., Notoryctes typhlops, Nyctophilus geoffroyi, Tachyglossus aculeatus</i> | <i>Chalinolobus gouldii, Pteropus melanotus</i> | <i>Chiroptera sp., Nyctophilus geoffroyi, Tachyglossus aculeatus</i> | <i>Chiroptera sp., Microchiroptera sp., Nyctophilus geoffroyi</i> |
| Possums & Allies Palangeriformes, Phascolarctidae, Dendrolagus | <i>Tarsipes rostratus</i> | <i>Cercartetus caudatus, Petaurus breviceps, Pseudochirulus herbetensis, Trichosurus vulpecula</i> | <i>Acrobates pygmaeus, Petauroides volans, Petaurus breviceps, Phalangeridae sp. Pseudocheirus peregrinus, Trichosurus vulpecula</i> | <i>Acrobates pygmaeus, Cercartetus concinnus, C. nanus, Petauroides volans, Petaurus breviceps, Pseudocheirus peregrinus, Trichosurus vulpecula</i> |
| Native Rodents | <i>Leggadina forresti, L. lakedownensis, Notomys alexis, N. fuscus N. mitchellii, Pseudomys bolami, P. desertor, P. hermannsburgensis, Rattus villosissimus, Zyzomys argurus, Z. pedunculatus</i> | <i>Leggadina forresti, L. lakedownensis, Melomys burtoni, Mesembriomys gouldii, Pogonomys mollipolosus, Pseudomys calbyi, P. delicatulus, Pseudomys sp., Rattus villosissimus, R. fuscipes, R. leucopus, Uromys caudimaculatus, U. hadrourus, Zyzomys sp.</i> | <i>Hydromys chrysogaster, Melomys cervinipes, Rattus fuscipes, R. lutreolus,</i> | <i>Notomys alexis, Pseudomys albocinereus, P. bolami, P. desertor, P. hermannsburgensis, Rattus fuscipes, R. sordidus</i> |
| Wallaby & Allies Lagorchestes Notomacropus, Onychogalea, Petrogale, Thylogale, Wallabia | <i>Petrogale lateralis</i> | <i>Macropus agilis</i> | <i>Thylogale sp., Wallabia bicolor</i> | <i>Petrogale lateralis</i> |
| Invasive Rodents | <i>Mus musculus</i> | <i>Mus musculus</i> | <i>Mus musculus, Rattus rattus</i> | <i>Mus musculus, Rattus rattus</i> |

Canis familiaris

| | | | | |
|--------------|-------------|--|--------------------------|--|
| Group | Arid | Tropical Grasslands and Forests | Temperate Forests | Temperate Grasslands & Shrublands |
|--------------|-------------|--|--------------------------|--|

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|--|---|--|--|--|
| Bandicoots & Allies Peramelemorphia, Potoroidae, Hypsiprymnodontidae | <i>Macrotis lagotis</i> | <i>Bettongia tropica</i> , <i>Isoodon macrourus</i> , <i>Isoodon sp.</i> , <i>Hypsiprymnodon moschatus</i> , <i>Perameles nasuta</i> , | <i>Isoodon macrourus</i> , <i>I. obesulus</i> , <i>Isoodon auratus</i> , <i>Isoodon Perameles nasuta</i> , <i>Perameles macrourus</i> sp., <i>Potorous longipes</i> , <i>P. tridactylus</i> , <i>Potorous sp.</i> | |
| Dasyuridae Dasyuridae, Thylacinidae, Myrmecobiidae. | <i>Dasyercus cristicauda</i> , <i>Dasykaluta rosamondae</i> , <i>Ningai ridei</i> , <i>Planigale sp.</i> , <i>Sminthopsis crassicaudata</i> , <i>S. hirtipes</i> , <i>S. macroura</i> , <i>S. youngsoni</i> | <i>Antechinus flavipes</i> , <i>Dasyurus hallucatus</i> , <i>Dasyurid sp.</i> , <i>Planigale maculata</i> , <i>Dasyurus maculatus</i> | <i>Antechinus agilis</i> , <i>A. flavipes</i> , <i>A. stuartii</i> , <i>A. swainsonii</i> , <i>Dasyurus maculatus</i> , <i>Phascogale tapoatafa</i> , <i>Planigale maculata</i> , <i>Sminthopsis leucopus</i> , <i>S. murina</i> | <i>Antechinomys laniger</i> , <i>Dasyercus blythi</i> , <i>Ningai yvonneae</i> , <i>Sminthopsis crassicaudata</i> , <i>S. murina</i> , <i>S. youngsoni</i> |
| Invasive Predators | <i>Canis familiaris</i> , <i>Felis catus</i> , <i>Vulpes vulpes</i> | <i>Canis familiaris</i> , <i>Felis catus</i> | <i>Canis familiaris</i> , <i>Felis catus</i> , <i>Vulpes vulpes</i> | <i>Canis familiaris</i> , <i>Felis catus</i> |
| Kangaroos Osphranter, Macropus | <i>Macropus fuliginosus</i> , <i>M. robustus</i> , <i>M. rufus</i> | <i>Macropus antilopinus</i> , <i>M. bernardus</i> , <i>M. giganteus</i> , <i>M. robustus</i> , <i>M. rufus</i> | <i>Macropus fuliginosus</i> , <i>M. giganteus</i> , <i>M. robustus</i> | <i>Macropus fuliginosus</i> , <i>M. giganteus</i> , <i>M. robustus</i> , <i>M. rufus</i> |
| Lagomorphs | <i>Oryctolagus cuniculus</i> | <i>Oryctolagus cuniculus</i> | <i>Lepus europaeus</i> , <i>Oryctolagus cuniculus</i> | <i>Oryctolagus cuniculus</i> |
| Ungulates | <i>Bos taurus</i> , <i>Camelus dromedarius</i> , <i>Capra hircus</i> , <i>Equus caballus</i> , <i>Ovis aries</i> , <i>Sus scrofa</i> | <i>Axis axis</i> , <i>Bos taurus</i> , <i>Bubalus bubalis</i> , <i>Capra hircus</i> , <i>Equus caballus</i> , <i>Sus scrofa</i> | <i>Axis sp.</i> , <i>Bos taurus</i> , <i>Capra hircus</i> , <i>Cervus unicolor.</i> , <i>Equus caballus</i> , <i>Ovis aries</i> , <i>Rusa unicolor</i> , <i>Sus scrofa</i> | <i>Bos taurus</i> , <i>Camelus dromedarius</i> , <i>Capra hircus</i> , <i>Ovis aries</i> , <i>Sus scrofa</i> |
| Other | <i>Chiroptera sp.</i> , <i>Homo sapiens</i> , <i>Notoryctes typhlops</i> , <i>Nyctophilus geoffroyi</i> , <i>Tachyglossus aculeatus</i> | <i>Ornithorhynchus anatinus</i> , <i>Pteropus alecto</i> , <i>P. conspicillatus</i> , <i>Tachyglossus aculeatus</i> | <i>Chiroptera sp.</i> , <i>Microchiroptera sp.</i> , <i>Nyctophilus sp.</i> , <i>Ornithorhynchus anatinus</i> , <i>Pteropus poliocephalus</i> , <i>Vombatus ursinus</i> , <i>Tachyglossus aculeatus</i> | <i>Vombatus ursinus</i> , <i>Tachyglossus aculeatus</i> |
| Possums & Allies Palangeriformes, Phascolarctidae, Dendrolagus | <i>Trichosurus vulpecula</i> | <i>Cercartetus caudatus</i> , <i>Dactylopsila trivirgata</i> , <i>Dendrolagus lumholtzi</i> , <i>Hemibelideus lemuroides</i> , <i>Petaurus ariel</i> , <i>P. breviceps</i> , <i>Pseudochirops archeri</i> , <i>Pseudocheirus herbertensis</i> , <i>P. peregrinus</i> , <i>Pseudochirulus cinereus</i> , <i>Trichosurus arnhemensis</i> , <i>T. vulpecula</i> | <i>Acrobates pygmaeus</i> , <i>Cercartetus nanus</i> , <i>Petauroides volans</i> , <i>Petaurus australis</i> , <i>P. breviceps</i> , <i>P. norfolcensis</i> , <i>Pseudocheirus peregrinus</i> , <i>Trichosurus caninus</i> , <i>T. vulpecula</i> , <i>Phascolarctos cinereus</i> | <i>Acrobates pygmaeus</i> , <i>Petaurus breviceps</i> , <i>P. norfolcensis</i> , <i>Pseudocheirus peregrinus</i> , <i>Trichosurus vulpecula</i> |
| Native Rodents | <i>Leggadina forresti</i> , <i>Notomys alexis</i> , <i>N. cervinus</i> , <i>N. fuscus</i> , <i>Pseudomys australis</i> , <i>P. desertor</i> , <i>P. forresti</i> , <i>P. hermannsburgensis</i> , <i>Rattus villosissimus</i> , <i>Zyzomys argurus</i> | <i>Hydromys chrysogaster</i> , <i>Melomys burtoni</i> , <i>M. cervinipes</i> , <i>Rattus fuscipes</i> , <i>R. leocopus</i> , <i>R. lutreolus</i> , <i>R. tunneyi</i> , <i>Uromys caudimaculatus</i> , <i>Zyzomys argurus</i> | <i>Hydromys chrysogaster</i> , <i>Mastacomys fuscus</i> , <i>Melomys burtoni</i> , <i>M. cervinipes</i> , <i>Pseudomys fumeus</i> , <i>P. gracilicaudatus</i> , <i>P. novaehollandiae</i> , <i>Rattus fuscipes</i> , <i>R. lutreolus</i> , <i>R. tunneyi</i> | <i>Notomys alexis</i> , <i>N. mitchellii</i> , <i>Pseudomys apodemoides</i> , <i>P. desertor</i> , <i>P. fumeus</i> , <i>P. hermannsburgensis</i> , <i>Rattus fuscipes</i> , <i>R. lutreolus</i> , |
| Wallaby & Allies | <i>Lagorchestes</i> | <i>Aepyprymmyus rufescens</i> , | <i>Aepyprymmyus rufescens</i> , | <i>Macropus agilis</i> , <i>M. parma</i> , <i>M.</i> |

| | | | | |
|---|---|---|---|--|
| Lagorchestes Notomacropus, Onychogalea, Petrogale, Thylogale, Wallabia | <i>conspicillatus</i> , <i>L. hirsutus</i> , <i>Onychogalea unguifera</i> , <i>Petrogale pencillata</i> , <i>P. rothschildi</i> | <i>Lagorchestes conspicillatus</i> , <i>Macropus agilis</i> , <i>M. dorsalis</i> , <i>M. parryi</i> , <i>Onychogalea unguifera</i> , <i>Petrogale assimilis</i> , <i>Thylogale stigmatica</i> , <i>Wallabia bicolor</i> | <i>Macropus parma</i> , <i>M. rufogriseus</i> , <i>Petrogale pencillata</i> , <i>Thylogale thetis</i> , <i>Wallabia bicolor</i> | <i>parryi</i> , <i>Petrogale assimilis</i> , <i>Thylogale thetis</i> , <i>Wallabia bicolor</i> |
| Invasive Rodents | <i>Mus musculus</i> , | <i>Mus musculus</i> , <i>Rattus rattus</i> | <i>Mus musculus</i> , <i>Rattus rattus</i> | <i>Mus musculus</i> , <i>Rattus rattus</i> |

Table S2: The Consumption to Occurrence factor for all groups seen in diets of the four bioregions, as well as a total of Australian wide Cons/Occ factor.

| | | <i>Arid</i> | <i>Trop</i> | <i>Temp</i> | <i>Medi</i> | <i>Total</i> |
|--------------|-----------------------|-------------|-------------|-------------|-------------|--------------|
| <i>Dingo</i> | Bandicoots & Potoroos | 3.36 | 0.32 | 3.05 | 0.01 | 6.74 |
| | Dasyuridae | 0.26 | 0.07 | 0.38 | 0.3 | 1.01 |
| | Invasive Predators | 0.45 | 0.23 | 0.09 | 0.22 | 0.99 |
| | Invasive Rodents | 0.45 | 0.2 | 0.35 | 0.48 | 1.48 |
| | Kangaroos | 0.26 | 0.6 | 0.34 | 2.31 | 3.51 |
| | Lagomorphs | 3.76 | 0.76 | 2.58 | 2.31 | 9.41 |
| | Livestock | 0.88 | 1.11 | 1.39 | 3 | 6.38 |
| | Native Rodents | 1.07 | 5.21 | 0.92 | 0.28 | 7.48 |
| | Others | 0.1 | 0.07 | 0.29 | 0.31 | 0.77 |
| | Possums & Allies | 0.03 | 1.44 | 0.68 | 1.06 | 3.21 |
| | Wallabies & Allies | 0.38 | 1 | 0.94 | 0.71 | 3.03 |
| <i>Fox</i> | Bandicoots & Potoroos | 0 | 0 | 0.5 | 0.01 | 0.51 |
| | Dasyuridae | 0.8 | 1.75 | 0.79 | 0.26 | 3.6 |
| | Invasive Predators | 0.15 | 0 | 0.06 | 0.06 | 0.27 |
| | Invasive Rodents | 1.39 | 4.7 | 1.65 | 1.71 | 9.45 |
| | Kangaroos | 0.07 | 0.46 | 0.1 | 0.62 | 1.25 |
| | Lagomorphs | 2.32 | 2.86 | 4.55 | 2.32 | 12.05 |
| | Livestock | 0.16 | 0.77 | 1.21 | 5.18 | 7.32 |
| | Native Rodents | 5.86 | 0.38 | 1.34 | 0.16 | 7.74 |
| | Others | 0.25 | 0 | 0.04 | 0.01 | 0.3 |
| | Possums & Allies | 0 | 0.06 | 0.65 | 0.55 | 1.26 |
| | Wallabies & Allies | 0 | 0.02 | 0.11 | 0.12 | 0.25 |
| <i>Cat</i> | Bandicoots & Potoroos | 0.39 | 0.18 | 0.06 | 0.04 | 0.67 |
| | Dasyuridae | 1.4 | 2.73 | 0.09 | 2.17 | 6.39 |
| | Invasive Predators | 0.07 | 0.23 | 0.05 | 0.08 | 0.43 |
| | Invasive Rodents | 2.34 | 2.94 | 4.16 | 2.39 | 11.83 |
| | Kangaroos | 0.02 | 0.04 | 0.14 | 0.03 | 0.23 |
| | Lagomorphs | 2.91 | 1.55 | 6.05 | 3.25 | 13.76 |
| | Livestock | 0.03 | 0.04 | 0.18 | 0.6 | 0.85 |
| | Native Rodents | 3.32 | 2.98 | 0.19 | 1.95 | 8.44 |
| | Others | 0.13 | 0.08 | 0 | 0.03 | 0.24 |
| | Possums & Allies | 0.25 | 0.2 | 0.07 | 0.45 | 0.97 |
| | Wallabies & Allies | 0.14 | 0.02 | 0 | 0.01 | 0.17 |

Appendix 3: References for Dietary Data

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