

Plain English Rules for Terrestrial Animals – Reserve Key Values

(Species that were analysed using Range Boundaries)

Caveats:

- There is significant variability in survey effort between reserves and between species.
- Different species have been analysed using different data and methods according to the most suitable data available.
- Some species were lacking in data or information and have not been included in the threatened species analysis or may need to be revised in iterations at a later time. Many crayfish species will need revision.

Method:

1. Terrestrial Threatened Species Analysis

All terrestrial and freshwater threatened animal species are to be analysed, where there is data available. Each threatened species has a preferred analysis method depending on whether or not it is wide ranging, and also which data sources are available for that species. The methods and data sources (broadly in priority order) are:

- Buffer of Active and Inactive eagle nest site data
- Project Prioritisation Protocol priority locations which are in reserves
- **Known Breeding Areas or Core Range Boundary**
- **Known Range Boundary**
- **Potential Range Boundary**
- Buffer of Observation Records (variable buffer)
- Other Expert Knowledge and lists.

The preferred method of analysis is listed in a ‘methods’ lookup table. The method used is to be indicated in the resulting list of species for which a reserve is significant.

Sliver Rule. A sliver rule is to be applied to remove reserves where $\leq 1\%$ of a range boundary is in the reserve, unless one or more observations of the species have been recorded there. For all methods, the rating system will be based on species actually recorded in a reserve (more stars), vs in a buffer nearby or range (fewer stars).

Table 1. Star Rating

Listing Status	Species (or nest) recorded in reserve, and total reserve count ≤ 2	Species (or nest) recorded in reserve, and total reserve count > 2 and < 10	Species (or nest) recorded in reserve, and total reserve count > 10	Species (or nest) records outside reserve only (eg in buffer)
CR, E, e	5	4	3	2
VU, v	4	3	2	1
r	3	2	1	0*
Specific Reserves important for other fauna species	1	0	0	0

Appendix 1 – List of Range Boundaries of Forest Fauna appropriate to use for this analysis

Species	Common name	TSPA	EPBC	Range type
<i>Acanthiza pusilla</i> subsp. <i>archibaldi</i>	Brown Thornbill (King Island)	e	EN	Core Range
<i>Acanthornis magna</i> subsp. <i>greeniana</i>	Scrubtit (King Island)	e	CR	Core Range
<i>Accipiter novaehollandiae</i>	Grey Goshawk	e		Core Range
<i>Astacopsis gouldi</i>	Giant Freshwater Crayfish	v	VU	Range where 'species is likely to occur' from Commonwealth recovery plan
<i>Beddomeia angulata</i>	Hydrobiid Snail (Rapid River)	r		Known Range
<i>Beddomeia averni</i>	Hydrobiid Snail (West Gawler)	e		Known Range
<i>Beddomeia briansmithi</i>	Hydrobiid Snail (Fern Creek)	v		Known Range
<i>Beddomeia camensis</i>	Hydrobiid Snail (Cam River)	e		Known Range
<i>Beddomeia capensis</i>	Hydrobiid Snail (Table Cape)	e		Known Range
<i>Beddomeia fallax</i>	Hydrobiid Snail (Heathcote Creek)	r		Known Range
<i>Beddomeia forthensis</i>	Hydrobiid Snail (Wilmot River)	r		Known Range
<i>Beddomeia franklandensis</i>	Hydrobiid Snail (Frankland River)	r		Known Range
<i>Beddomeia fromensis</i>	Hydrobiid Snail (Frome River)	e		Known Range
<i>Beddomeia fultoni</i>	Hydrobiid Snail (Farnhams Creek)	e		Known Range
<i>Beddomeia hallae</i>	Hydrobiid Snail (Buttons Rivulet)	e		Known Range
<i>Beddomeia inflata</i>	Hydrobiid Snail (Heathcote Creek)	r		Known Range
<i>Beddomeia kershawi</i>	Hydrobiid Snail (Macquarie River)	e		Known Range
<i>Beddomeia krybetes</i>	Hydrobiid Snail (St. Pauls River)	v		Known Range
<i>Beddomeia lodderae</i>	Hydrobiid Snail (Upper Castra Rivulet)	v		Known Range
<i>Beddomeia mesibovi</i>	Hydrobiid Snail (Arthur River)	r		Known Range
<i>Beddomeia minima</i>	Hydrobiid Snail (Scottsdale)	r		Known Range
<i>Beddomeia petterdi</i>	Hydrobiid Snail (Blyth River)	e		Known Range

Species	Common name	TSPA	EPBC	Range type
<i>Beddomeia phasianella</i>	Hydrobiid Snail (Keddies Creek)	v		Known Range
<i>Beddomeia protuberata</i>	Hydrobiid Snail (Emu River)	r		Known Range
<i>Beddomeia ronaldi</i>	Hydrobiid Snail (St. Patricks River)	e		Known Range
<i>Beddomeia tasmanica</i>	Hydrobiid Snail (Terrys Creek)	r		Known Range
<i>Beddomeia tumida</i>	Hydrobiid Snail (Great Lake)	e		Known Range
<i>Beddomeia turnerae</i>	Hydrobiid Snail (Minnow River)	r		Known Range
<i>Beddomeia waterhouseae</i>	Hydrobiid Snail (Clayton's Rivulet)	e		Known Range
<i>Beddomeia wilmotensis</i>	Hydrobiid Snail (Wilmot River)	r		Known Range
<i>Beddomeia wiseae</i>	Hydrobiid Snail (Blizzards Creek)	v		Known Range
<i>Beddomeia zeehanensis</i>	Hydrobiid Snail (Little Henty River)	r		Known Range
<i>Benthodorbis pawpela</i>	Hydrobiid Snail (Great Lake)	r		Potential Range
	Green-lined Ground Beetle (name changed from <i>Catradomus</i> Carabid Beetle)	v		Known Range
<i>Catadromus lacordairei</i>		v		Known Range
<i>Ceyx azureus</i> subsp. <i>diemenensis</i>	Tasmanian Azure Kingfisher	e	EN	Core Range
<i>Charopidae</i> sp. "Skemps"	Skemps Snail	r		Potential Range
<i>Chrysolarentia decisaria</i>	Tunbridge Looper Moth	e		Core Range
<i>Dasybela achroa</i>	Saltmarsh Looper Moth	v		Known Range
<i>Dasyurus maculatus</i> subsp. <i>maculatus</i>	Spotted-tailed quoll	r	VU	Core Range
<i>Discocharopa vigens</i>	Ammonite Pinwheel Snail	e	CR	Core Range
<i>Echinodillo cavaticus</i>	Flinders Island Cave Slater	r		Known Range
<i>Ecnomina vega</i>	Caddis Fly (Macquarie River)	r		Potential Range
<i>Engaeus granulatus</i>	Central North Burrowing Crayfish	e	EN	Known range with expert adjustments
<i>Engaeus martigener</i>	Furneaux Burrowing Crayfish	v	EN	Potential Range
<i>Engaeus orramakunna</i>	Mt. Arthur Burrowing Crayfish	v	VU	Known Range
<i>Engaeus spinicaudatus</i>	Scottsdale Burrowing Crayfish	e	EN	Known Range
<i>Engaeus yabbimunna</i>	Burrowing Crayfish (Burnie)	v	VU	Known Range
<i>Galaxias auratus</i>	Golden Galaxias	r	EN	Potential Range

Species	Common name	TSPA	EPBC	Range type
Galaxias fontanus	Swan Galaxias	e	EN	Use known range
Galaxias tanycephalus	Saddled Galaxias	v	VU	Potential Range
Galaxiella pusilla	Dwarf Galaxias	v	VU	Core Range
Goedetrechus mendumae	Blind Cave Beetle	v		Known Range
Goedetrechus parallelus	Slender Cave Beetle (June- Florentine)	v		Known Range
Haloniscus searlei	Salt Lake Slater	e		Potential Range
Attenborougharion rubicundus	Burgundy Semi-slug	r		Known Range
Hickmanoxyomma cavaticum	Ida Bay Cave Harvestman	r		Known Range
Hickmanoxyomma gibbergunyar	Cave Harvestman (Mole Creek)	r		Known Range
Hoplogonus bornemisszai	Bornemissza's Stag Beetle	e	CR	Known Range
Hoplogonus simsoni	Simson's Stag Beetle	v	VU	Known Range
Hoplogonus vanderschoori	Vanderschoor's Stag Beetle	v	VU	Known Range
Hydrobiosella sagitta	Caddis Fly (St. Columba Falls)	r		Potential Range
Hydroptila scamandra	Caddis Fly (Upper Scamander River)	r		Potential Range
Idacarabus cordicollis	Cave Beetle (Hastings Cave)	r		Known Range
Idacarabus troglodytes	Ida Bay Cave Beetle	r		Known Range
Lathamus discolor	Swift Parrot	e	CR	Breeding Areas and also Observation Records
Lissotes latidens	Broad-toothed Stag Beetle	e	EN	Known Range
Mesacanthotelson setosus	Isopod (Great Lake)	r		Known Range
Mesacanthotelson tasmaniae	Isopod (Great Lake)	r		Known Range
Micropathus kiernani	Cave Cricket	e	CR	Known Range
Migas plomleyi	Plomley's Trapdoor Spider	r		Potential Range
Oecetis gilva	Caddis Fly (South Esk River)	r		Potential Range
Olgania excavata	Cave Spider (Bubs Hill Cave)	r		Known Range
Onchotelson brevicaudatus	Isopod (Great Lake & Shannon Lagoon)	r		Known Range
Onchotelson spatulatus	Isopod (Great Lake)	e		Known Range

Species	Common name	TSPA	EPBC	Range type
Oreixenica ptunarra	Ptunarra Brown Butterfly	v	EN	Known Range
Orphnino-trichia maculata	Caddis Fly (Wedge River)	r		Potential Range
Orthotrichia adornata	Caddis Fly (Derwent River)	r		Potential Range
Oxyethira mienica	Caddis Fly (Ouse River)	r		Potential Range
Paragalaxias dissimilis	Shannon Paragalaxias	v	VU	Known Range (exclude terrestrial areas)
Paragalaxias electroides	Great Lake Paragalaxias	v	VU	Potential Range (exclude terrestrial areas)
Paragalaxias mesotes	Arthurs Paragalaxias	e	EN	Potential Range (exclude terrestrial areas)
Pardalotus quadragintus	Forty-spotted Pardalote	e	EN	Known Range
Parvotettix rangaensis	Cave Cricket	r		Known Range
Parvotettix whinrayi	Whinray's Cave Cricket	r		Potential Range
Phrantela annamurrayae	Hydrobiid Snail (Heazlewood River)	r		Known Range
Phrantela conica	Hydrobiid Snail (Little Henty River)	r		Known Range
Phrantela pupiformis	Hydrobiid Snail (Tyenna River)	r		Known Range
Platycercus caledonicus brownii	King Island Green Rosella	v	VU	Core Range
Plesiothele fentoni	Lake Fenton Trapdoor Spider	e		Potential Range
Prototroctes maraena	Australian Grayling	v	VU	Potential Range
Pseudalmenus chlorinda myrsilus	Tasmanian Hairstreak (butterfly)	r		Core Range
Pseudemoia pagenstecheri	Tussock Skink	v		Core Range
Pseudotyrannochthonius typhlus	Cave Pseudoscorpion (Mole Creek)	r		Known Range
Ramiheithrus kocinus	Caddis Fly (Corinna)	r		Potential Range
Roblinella agnewi	Silky Pinwheel Snail	r		Known Range
Schayera baiulus	Schayer's Grasshopper	e		Known Range
Stenopsychodes lineata	Caddis Fly (Bluff Hill Creek)	r		Potential Range
Tasimia drepana	Caddis Fly (Huon & Picton Rivers)	r		Potential Range
Tasmanipatus anophthalmus	Blind Velvet Worm	e	EN	Known Range
Tasmanipatus barretti	Giant Velvet Worm	r		Known Range
Tasmanotrechus cockerilli	Cave Beetle (Mole Creek)	r		Known Range

Species	Common name	TSPA	EPBC	Range type
Tasmaphena lamproides	Keeled Carnivorous Snail	r		Known Range
Tasniphargus tyleri	Amphipod (Great Lake)	r		Known Range
Theclinesthes serpentata subsp. lavara	Chequered blue	r		Potential Range
Tyto novaehollandiae subsp. castanops	Masked Owl	e	VU	Core Range
Uramphisopus pearsoni	Isopod (Great Lake)	r		Known Range
Castiarina insculpta	Miena jewel beetle	e		Known range with expert adjustments