Geraldton Sandplains 2 (GS2 - Geraldton Hills subregion)

ANTHONY DESMOND AND ALANNA CHANT
NOVEMBER 2001

Subregional description and biodiversity values

Description and area

The Geraldton Sandplains bioregion comprises mainly proteaceous scrub-heaths, rich in endemics, on the sandy earths of an extensive, undulating, and lateritic sandplain mantling Permian to Cretaceous strata. Extensive York Gum and Jam woodlands occur on outwash plains associated drainage. The Geraldton Hills subregion (GS2) incorporates the southern end of Carnarvon Basin and northern end of the Perth Basin, with exposed areas of Permian/Silurian siltstone and Jurassic sandstones, mostly overlain by sandplains, alluvial plains, and coastal limestones. Sand heaths with emergent Banksia and Actinostrobus, York Gum woodlands on alluvial plains, proteaceous heath and Acacia scrubs on limestones depending on depth of coastal-sand mantle, low closed forest of Acacia rostellifera (now cleared) on alluvial plains of Greenough and Irwin River (behind beach dune system south of Geraldton). Also includes the Pinjarra Orogen which is an area of Hill country with a Proterozoic basement, and comprises extensive, undulating, lateritic uplands mantled in sandplain supporting proteaceous shrublands and mallees while valleys support York Gum and Jam. Warm semi-arid to Mediterranean climate with 400 - 500 mm of rainfall annually, and the subregional area is 2, 242, 033 ha.

Dominant land use

The dominant land use is mainly (iv) dry-land agriculture (65.78%), with lesser areas of (xiii) conservation (13.84%), (viii) grazing native pastures (13.21%) and (x) UCL and Crown reserves (6.47%) (see Appendix B, key b).

Continental Stress Class

The Continental Stress Class for GS2 is currently listed as 4, however it should be 2 or worse. Most of GS2 is in a similar situation to Avon Wheatbelt, but the northern periphery is slightly better as it includes parts of Kalbarri National Park, Wandana Nature Reserve & Unallocated Crown Land. Over 68% of the area in conservation estate in this subregion is contained in Kalbarri National Park at the far north-western periphery of the subregion. Wandana Nature Reserve in the north-eastern periphery contains over 20% of the conservation estate of the subregion. The remainder of the subregion has very few reserves, the majority of which are small and on agriculturally unproductive land. Many reserves are threatened by salinity.

Known special values in relation to landscape, ecosystem, species and genetic values

Rare Features:

- Acacia rostellifera forest
- Hutt Lagoon samphire communities
- Houtman Abrolhos islands with Tammar population, rare breeding seabirds and sea lion colonies
- Moresby Range communities with rare plants such as the mallee species Eucalyptus blaxellii, Eucalyptus cuprea, heath Drummondita ericoides and orchid Caladenia hoffmanii subsp. hoffmanii.

Threatened Vertebrates:

- CWR mammals such as Tammar Wallaby (Macropus eugenii derbianus), Black-footed Rock-wallaby (Petrogale lateralis lateralis), Northern Brushtail Possum (Trichosurus vulpecula), and Western Brush Wallaby (Macropus irma).
- Birds such as: Peregrine Falcon (Falco peregrinus), Red-tailed Tropicbird (Phaethon rubricauda), Malleefowl (Leipoa ocellata), Anous tenuirostris melanops, Carnaby's Cockatoo (Calyptorhynchus latirostris).
- Reptiles such as: Spiny-tailed Skink (*Egernia stokesii* stokesii), Carpet Python (*Morelia spilota imbricata*).

Ecosystem Types Which Have at Least 85% of Their Total Extent Confined to GS2:

| Beard Veg | Description |
|--------------------|--|
| Assoc | |
| 35 | Shrublands; jam scrub with scattered York gum |
| 351 | Shrublands; mallee & acacia scrub with scattered York gum & red mallee |
| 353 | Shrublands; mallee & acacia scrub with scattered York gum |
| 359 | Shrublands; acacia & banksia scrub |
| 371 | Low forest; Acacia rostellifera |
| Beard Veg Assoc | Description |
| 372 | Mosaic: Shrublands; scrub-heath on deep sandy flats/Shrublands; thicket, acacia-casuarina alliance |

| 380 | Shrublands; scrub-heath on sandplain |
|------|--|
| 386 | Low woodland; York gum |
| 401 | Mosaic: Shrublands; scrub-heath on coastal association on yellow sandplain/Shrublands; acacia patchy scrub |
| 402 | Shrublands; heath on coastal limestone |
| 403 | Shrublands; Acacia ligulata scrub-heath |
| 407 | Low woodland over scrub; Allocasuarina huegeliana over jam scrub |
| 408 | Shrublands; scrub-heath on coastal association, yellow sandplain |
| 424 | Shrublands; York gum mallee scrub |
| 427 | Shrublands; jam scrub with scattered Allocasuarina huegeliana & York gum |
| 431 | Shrublands; Acacia rostellifera open scrub |
| 440 | Shrublands; Acacia ligulata open scrub |
| 675 | Shrublands; mixed thicket (melaleuca & hakea?) |
| 1141 | Shrublands; jam, Acacia rostellifera & Melaleuca megacephala thicket |
| 1142 | Shrublands; Acacia ligulata & Melaleuca uncinata dominated thicket on dark brown loamy soil |

Centres of endemism:

The region is rich and diverse in flora with many sandplain genera having a high degree of endemism, e.g. *Scholtzia* spp. having over 16 taxa endemic to the subregion. The reptiles *Lerista yuna*, *Cyclodomorphus branchialis*, *Aprasia* sp. nov aff. *fusca* are endemic to the subregion.

Refugia:

Abrolhos Islands provide refugia for breeding Seabirds, Tammar Wallabies (*Macropus eugenii derbianus*), Australian Sea lions (*Neophoca cinerea*), Carpet Pythons (*Morelia spilota imbricata*), and Spiny-tailed Skink (*Egernia stokesii stokesii*) from introduced predators.

High Species and Ecosystem Diversity:

 Sandplain shrublands on Moresby Range - Diverse flora including a number of different ecosystem types (e.g. Mesa tops, west facing slopes, East facing slopes).

- Sandplain shrublands of Burma Rd area Diverse flora including a number of Endangered and Rare species.
- Kalbarri National Park contains over 1070 floral taxa (a mix of south-western and more arid species).
 Many of these are endemic to the subregion.

Existing subregional or bioregional plans and/or systematic reviews of biodiversity and threats

In 1974 the Conservation Through Reserves Committee (CTRC) made recommendations for reserves within the Geraldton Sandplains (System 5) in the CTRC Green Book (Environmental Protection Authority 1974). In 1976 these recommendations were further developed by the Environmental Protection Authority as the Red Book recommendations Environmental Protection Authority 1976). Some but not all of these recommendations (with modification) were implemented over the following ten years. No other systematic assessment of biodiversity has been undertaken in the subregion.

Wetlands

Wetlands of National significance (DIWA listings)

| Name and Code | Description ¹ | Condition ² | Trend ³ | Reliability ⁴ | Threatening Processes ⁵ |
|---|--------------------------|------------------------|--------------------|--------------------------|---|
| Hutt Lagoon System WA035 (GS001WA) | B8, B6, B12, | ii | iii | iii | iv, x (rising watertable), vi (wild oats, lupins), xiii |
| | B10 | | | | (potential for expansion of Dunaliella ponds) |
| Murchison River (Lower Reaches) WA037 (GS003WA) | A6, B1, B2 | ii | iii | iii | iv, vi (saffron thistle, wild oats), x (increased sediment load), xii (historical lead mining |
| | | | | | operations) |

¹Appendix B, key d; ²Appendix C, rank 2; ³Appendix C, rank 3; ⁴Appendix C, rank 1; ⁵Appendix B, key e

Wetlands of subregional significance (in addition to the DIWA listed wetlands)

| Name and Code | Location | Description ¹ | Special | Condition ³ | Trend ⁴ | Reliability⁵ | Threatening |
|-----------------------|-----------------------|--------------------------|---------------------|------------------------|--------------------|--------------|----------------------------|
| | | | Values ² | | | | Processes ⁶ |
| Greenough River pools | 300 000 mE, 6 810 | B2 | iv | i | ii | ii | ix, x (occluding with |
| | 000mN | | | | | | sand) |
| Freshwater springs in | 235 000 mE, 6 880 000 | B17 | V | iii | iv | ii | x (increase in discharge |
| Northampton area | mN | | | | | | though water is fresh |
| | | | | | | | currently), iv, vi (glossy |
| | | | | | | | nightshade, saffron |
| | | | | | | | thistle, soursob, lupins, |
| | | | | | | | wild oats) |

¹Appendix B, key d; ²Appendix B, key c; ³Appendix C, rank 2; ⁴Appendix C, rank 3; ⁵Appendix C, rank 1; ⁶Appendix B, key e

Riparian zone vegetation

| Name | Condition ¹ | Trend ² | Reliability ³ | Threatening Processes ⁴ |
|-----------------------|---|--------------------|--------------------------|--|
| Greenough River | i | ∷ | ii | ix, x (increased flow), i (historical), ii (historical), iv, v (foxes, rabbits & goats), vi (castor oil bush, box thorn, wild oats, soursob, lupins), xi, xii (urbanisation, recreation and tourism) |
| Chapman River | - | iii | ii | ix, x (increased flow), i (historical), ii (historical), iv, v (foxes, rabbits & goats), vi (castor oil bush, box thorn, pattersons curse, wild oats, soursob, lupins, pennisetum, star thistle), xi, xii (urbanisation, recreation and tourism) |
| Irwin River | i | iii | ii | ix, x (increased flow), i (historical), ii (historical), iv, v (foxes, rabbits & goats), vi (castor oil bush, box thorn, wild oats, soursob, lupins), xi, xii (urbanisation, recreation and tourism) |
| Lower Murchison River | = | iii | ii | ix, x (increased flow), i (historical), ii (historical), iv, v (foxes, rabbits & goats), vi (castor oil bush, box thorn, wild oats, soursob, lupins), xi, xii (urbanisation, recreation and tourism) |
| Bowes River | i | iii | ii | iv, ix, x, xii, xi (lead contamination from Nokenina Brook Northampton), vi (grasses, box thorn, star thistles), v (pigs, cats, foxes and rabbits), iii |
| Buller River | iii (uncleared areas), ii (elsewhere) | iii | ii | ix, x, vi (star thistle, grasses, lupins, radish, pattersons curse), iv, v (pigs, cats, foxes and rabbits) |
| Lower Hutt River | iii | iii | ii | iii, xii (recreation), iv, v (goats and pigs), vi, vii, ix, xi (agricultural chemicals) |

¹Appendix C, rank 2; ²Appendix C, rank 3; ³Appendix C, rank 1; ⁴Appendix B, key e

Wetlands, estuarine and river systems often contained sites of significance to the Aboriginal community.

Ecosystems at risk

Threatened Ecological Communities (TECs)

| Community | Status | NVIS ¹ | Condition ² | Trend ³ | Reliability ⁴ | Threatening Processes ⁵ |
|---|---------|-------------------|------------------------|--------------------|--------------------------|---------------------------------------|
| Acacia rostellifera low forest with scattered Eucalyptus camaldulensis on Greenough River Alluvial Flats (Beard 1976e, Beard 1976g) | CR | 14 | i | iii | iii | xi, ix |
| Clay Flat assemblages of the Irwin River (Beard 1976e) | E PD | 14 | i | i | iii | ii, iv, v (rabbits), vii |

⁽Presumed Totally Destroyed)

Other ecosystems at risk

| Community | Status | NVIS ¹ | Condition ² | Trend ³ | Reliability ⁴ | Threatening Processes ⁵ |
|---|--------|-------------------|------------------------|--------------------|--------------------------|---|
| Melaleuca megacephala and Hakea pycnoneura | V | 32 | ii | iv | ii | ii, iv, v (rabbits), vii |
| thicket on stony slopes of Moresby Range (Beard 1976g, G. Keighery and N. Gibson pers. comm.) | | | | | | |
| Eucalyptus macrocarpa over Proteaceous sandplain community (M. Fitzgerald pers. comm.) | V | 29 | ii | = | i | ii, iv, v (rabbits), vii |
| Plant assemblages of the Irwin River Headwater flats (Beard 1976e) | V | 28 | i | ≡ | iii | x (increased flow), ii, iv, v (rabbits), vii |
| Plant assemblages of Hutt Lagoon (G. Keighery pers. comm.) | V | 39 | ii | iii | ii | ix, x (increased water table) |
| Verticordia dominated low heath on Moresby Range (Beard 1976e, G. Keighery and N. Gibson pers. comm.) | V | 29, 30 | ii | iv | ≡ | ii, iv, v (rabbits), vii |
| Allocasuarina campestris and Melaleuca uncinata | V | 28 | ii | iv | ii | ii, iv, v (rabbits), vii |

¹Appendix B, key f; ²Appendix C, rank 2; ³Appendix C, rank 3; ⁴Appendix C, rank 1; ⁵Appendix B, key e

| thicket on superficial laterite on Moresby Range (Beard | | | | | | |
|--|---|---------|-----|----------|-----|--|
| 1976e, G. Keighery and N. Gibson pers. comm.) Eucalyptus mallee sp. and Acacia scrub with scattered E. loxophleba (Hopkins et al. 1996) | V | 8 | ii | vi | iv | ii, iv, v (rabbits), vii |
| Acacia rostellifera low forest (Hopkins et al. 1996) | V | 14 | ii | iii | iv | ii, iv, v (rabbits), vii |
| Vegetation of Gorges of Murchison River lower reaches. Includes Endangered flora such as <i>Drakaea concolor, Caladenia wanosa, Lechenaultia chlorantha,</i> and <i>Hypocalymma longifolium</i> . Vulnerable flora such as <i>Calytrix harvestiana, Malleostemon</i> sp. Kalbarri, <i>Murchisonia fragrans</i> . | V | 9 | i | ii | İ | v (goats, pigs), vi (saffron thistle, wild oats, lupins) x (increased flow affecting riparian vegetation) |
| Vegetation of the Northampton block - Beard's Hutt System. Vegetation type species rich and appears different, reservation rate extremely low, 3 Critically Endangered, 3 Endangered and 8 Vulnerable flora species occur in the area. | V | Various | ii | iii | ii | v (goats, pigs, rabbits), vi (saffron thistle, wild oats, lupins) |
| Burma Rd Sandplain. Species rich proteaceous sandplains communities containing 3 endangered flora, 7 vulnerable flora. | V | 30 | ii | iii | i | v (goats, pigs, rabbits), vi (saffron thistle, wild oats, lupins) |
| Critical weight range mammals (extant species) Trichosurus vulpecula hypoleucus, Macropus eugenii derbianus, Macropus irma; locally extinct species Parantechinus apicalis, Dasyurus geoffroii, Isoodon obesulus, Petrogale lateralis lateralis. | E | NA | l | ii - iii | iii | v (fox, cat), vii, iv |
| Houtman Abrolhos islands mangrove communities (including seabird nesting sites and Australian Sea lion nursery sites) | V | 40 | iii | vi | iii | xi (rubbish from inhabited islands, fishing operations and visitors, raw sewage from fishing huts), v (rats, mice) |
| Houtman Abrolhos <i>Atriplex cinerea</i> dwarf shrubland including nesting burrows of seabirds such as shearwaters and petrels. | V | 31 | iii | vi | iii | vi (iceplant, Bryophyllum, Boxthorn), xii (damage by visitors), vii (fire has not been recorded in most areas) |

| Community | Status | NVIS ¹ | Condition ² | Trend ³ | Reliability ⁴ | Threatening Processes ⁵ |
|---|--------|-------------------|------------------------|--------------------|--------------------------|--|
| Pavement limestone, dunes and consolidated dunes on North Island and East and West Wallabi Islands | V | 32 | ii | vi | iii | vi (iceplant, Bryophyllum, Boxthorn), xii (damage by visitors), vii (fire has not been recorded in most areas) |
| Eucalyptus oraria on East Wallabi Island | V | 29 | iii | vi | iii | vi (iceplant), xii (damage by visitors), vii (fire has not been recorded in most areas) |
| Saltlake and saltbush flats on islands such as North and West Wallabi | V | 31 | | vi | iii | vi (iceplant, annuals such as wild oats), xii (damage by visitors), vii (fire has not been recorded in most areas) |
| Melaleuca megacephala – Allocasuarina campestris river heath (Lower Chapman River) part of Beard Vegetation Association 359 | V | 26, 15 | iii | ii | ii | xii (human access on horses and mountain and trail bikes), ii, v (rabbits), vi (box thorn, pattersons curse, grasses) vii |
| Verticordia low heath (Chapman River Regional Park) part of Beard Vegetation Association 359 | V | 30 | iii | iii | ii | v (rabbits and cats), vi (pattersons curse, grasses), xii (urban encroachment, human access on horses and mountain and trail bikes, proposed road works) |

¹Appendix B, key f; ²Appendix C, rank 2; ³Appendix C, rank 3; ⁴Appendix C, rank 1; ⁵Appendix B, key e

Species at risk

Fauna

| Species | Status | Condition ¹ | Trend ² | Reliability ³ | Threatening Processes ⁴ |
|--|---------------|------------------------|--------------------|--------------------------|---|
| SCHEDULE 1; RARE/LIKELY TO BECOME EXTINCT, | DIV 1 (MAMMA | ALS) | | | |
| Petrogale lateralis lateralis | V | i | i | ii | v (foxes, goats, cats), iii, iv |
| SCHEDULE 1; RARE/LIKELY TO BECOME EXTINCT, | DIV 2 (BIRDS) | | | | |
| Anous tenuirostris melanops | V | ii | iii | iii | v (rats, mice), ii (ice plant, wild oats, boxthorn) |
| Calyptorhynchus latirostris | E | ii | iii | ii | ii, v (foxes & cats), xii (poaching of nests) |
| Leipoa ocellata | V | i | iii | iii | v (foxes, cats), iii, iv |
| Turnix varia scintillans | V | iii | iv | ii | v (rats, mice), ii (ice plant, wild oats, boxthorn) |
| SCHEDULE 4; OTHER SPECIALLY PROTECTED FAL | INA. DIVISION | 2 (BIRDS) | | | |
| Falco peregrinus | SP | iv | iii | ii | ii |
| OTHER SPECIES AT RISK WITHIN THE SUBREGION | | | | | |
| Aspidites ramsayi | SP | i | i | i | ii, v (foxes, cats), iii |
| Macropus eugenii derbianus | | i | iii | ii | v (foxes, cats), iii, iv |
| Morelia spilota imbricata | SP | ii | iii | ii | ii, v (foxes, cats), iii |
| Neophoca cinerea | SP | ii | iv | ii | xi (debris from fishing activities), xii (disturbance by human activities, injury through encounters with boats) |
| Phaethon rubricauda | | ii | iii | ii | v (rats, mice), ii (ice plant, wild oats, boxthorn) |

¹Appendix C, rank 2; ²Appendix C, rank 3; ³Appendix C, rank 1; ⁴Appendix B, key e

Declared rare and priority flora

| Species Name | Status | Condition ¹ | Trend ² | Reliability ³ | Threatening Processes ⁴ |
|---|--------|------------------------|--------------------|--------------------------|---------------------------------------|
| DECLARED RARE FLORA | | • | • | • | |
| Acacia sp. Dandaragan (S van Leeuwen 269) | CR | ii | iii | iii | i, ii, vi |
| Beyeria lepidopetala | CR | i | i | ii | vii, ii, i |
| Caladenia elegans | CR | i | iii | iii | i, ii, vi, v (pigs, goats), vii, x |
| Chorizema humile | CR | i | ii | iii | i, ii, vi, v, vii |
| Eucalyptus cuprea | CR | i | ii | iii | i, ii, ∨ii |

| Eucalyptus impensa | CR | ii | iii | iii | i, ii, vi, vii |
|--|--------|------------------------|--------------------|--------------------------|--------------------------------------|
| Gastrolobium hamulosum | CR | ii | iii | ii | i, ii, vi, |
| Pterostylis sp. Northampton (SD Hopper 3349) | CR | i | ii | iii | i, ii, vi (numerous), v (pigs, goats |
| Caladenia barbarella | E | ii | iii | iii | v (pigs, goats), vii, vi |
| Caladenia bryceana subsp. cracens | E | ii | iii | iii | i, ii, iv, v (goats, pigs), vi |
| Caladenia hoffmanii subsp. hoffmanii | E | i | ii | iii | v (pigs), i, ii, vi, vii |
| Caladenia wanosa | E | i | ii | iii | v (goats, pigs), i, ii, vii |
| Drummondita ericoides | E | i | iii | iii | i, ii, vi |
| Eucalyptus beardiana | E | iii | iii | iii | iv, vii |
| Eucalyptus blaxellii | E | iii | iii | iii | ii, vii |
| Grevillea christineae | E | i | ii | iii | i, ii, vi, vii |
| Hydatella leptogyne | E | i | i | ii | ix, x |
| Hypocalymma longifolium | E | i | ii | iii | x, ix, v (goats), vi (numerous) |
| Lechenaultia chlorantha | E | ii | ii | iii | v (pigs, goats) |
| Acacia forrestiana | V | ii | iii | iii | i, ii, vii |
| Conostylis dielsii subsp. teres | V | ii | iii | iii | i, ii, vi, v (rabbits) |
| Conostylis micrantha | V | ii | iii | iii | i, ii, vi, v (rabbits) |
| Drakaea concolor ms | V | i | ii | | v (pigs, goats), ii |
| PRIORITY 1 | • | <u>'</u> | ." | ••• | - (h.30) 300(0)) |
| Acacia ampliata | 1 | ii | iii | iii | i, ii, v (goats) |
| Acacia lineolata subsp. multilineata | 1 | ii | ii | ii ii | i, ii |
| Acacia nigripilosa subsp. latifolia | 1 | ii ii | iii | ii | i, ii |
| Acacia pelophila | 1 | ii ii | iii | ii | i, ii, v, vi |
| Baeckea sp. East Yuna (R Spjut & C Edson 7077) | 1 | ii ii | iii | ii | i, ii, vi |
| Chamelaucium oenanthum ms | 1 | ii | vi | iii | v (goats, pigs), iv |
| Cuphonotus humistratus | 1 | ii | ٧i | ii | i, ii, vi |
| Desmocladus glomeratus | 1 | i | iii | ii | i, ii, vi |
| Eremophila brevifolia | 1 | i | ii | ii | i, ii, vi, vii, v (pigs and rabbits) |
| Erymophyllum hemisphaericum | 1 | i | i | ii | i, ii, vi |
| Eucalyptus sargentii subsp. fallens | 1 | ii | iii | iii | i, ii, ix |
| Frankenia bracteata | 1 | ii | vi | ii | i, ii |
| Gastrolobium propinguum | 1 | ii ii | iii | iii | i, ii, vi (numerous) |
| Gnephosis cassiniana | 1 | ii | iii | iii | i, ii, |
| Grevillea fililoba | 1 | ii | iii | iii | i, ii, vi (numerous) |
| Leucopogon teretostylus ms | 1 | ii ii | vi | ii | i, ii, vi (numerous) |
| Macarthuria georgeana | 1 | ii ii | iii | ii | i, ii, vi (numerous) |
| Malleostemon sp. Erangy Springs (M Trudgen 12030) | 1 | i ii | iii | iii | i, ii, vi (numerous) |
| Malleostemon sp. Hardabutt Rapids (Bellairs 1654A) | 1 | ii | iii | ii | v (pigs, goats) |
| Malleostemon sp. Mullewa (B Winson B7365) | 1 | i ii | iii | ii ii | i, ii, vi |
| Species Name | Status | Condition ¹ | Trend ² | Reliability ³ | Threatening |
| | Status | Condition | Ticha | Reliability | Processes ⁴ |
| Malleostemon sp. Unmade Road (Griffin 7537) | 1 | ii | ≡ | ii | i, ii |
| Malleostemon sp. Yerina (SJ Patrick 2728) | 1 | ij | ≡ | = | i, ii, vii, iv, vi |
| Melaleuca huttensis | 1 | ii | ≡ | ii | i, ii, iv ,vi, vii |
| Melaleuca oldfieldii | 1 | ii | vi | ii | i, ii, iv, vi, vii, ix |
| Micromyrtus rogeri | 1 | ii | iii | ii | i, ii, iv, vi |
| Micromyrtus sp. Three Springs (Cranfield 7885) | 1 | ii | iii | ii | i, ii, iv, vi, vii |
| Persoonia papillosa | 1 | ii | iii | ii | i, ii |
| Prostanthera scutata | 1 | unknown | unknown | ii | i, ii |
| Ptilotus chortophytum | 1 | ii | vi | ii | i, ii |
| Schoenia filifolia subsp. arenicola | 1 | ii | vi | ii | i, ii, vi (numerous) |
| Schoenia filifolia subsp. subulifolia | 1 | ii | iii | ii | i, ii, vi (numerous) |
| Scholtzia cordata ms | 1 | ii | vi | ii | i, ii, v (goats, pigs) |

| Scholtzia sp. Binnu (M Trudgen 2218) | 1 | ii | iii | ii | i, ii |
|--|--------|------------------------|--------------------|--------------------------|-------------------------------------|
| Scholtzia sp. Binnu East Road (ME Trudgen 12013) | 1 | ii | iii | ii | i, ii |
| Scholtzia sp. Kojarena (AM Ashby 1904) | 1 | ii | iii | i | i, ii |
| Scholtzia sp. Nolba (E Place s.n. Jan 1964) | 1 | ii | iii | i | i, ii |
| Scholtzia sp. Valentine Road (S Patrick 2142) | 1 | ii | iii | ii | i, ii |
| Scholtzia sp. Whelarra (ME Trudgen 12018) | 1 | ii | iii | ii | i, ii |
| Stenanthemum bilobum | 1 | ii | iii | i | i, ii |
| Stenanthemum gracilipes | 1 | ii | iii | ii | i, ii |
| Stylidium pseudocaespitosum | 1 | ii | iii | iii | i, ii |
| Stylidium xanthopis | 1 | ii ii | iii | ii | i, ii, ix, vii |
| Synaphea oulopha | 1 | ii ii | vi | ii | i, ii, iv, vii |
| Synaphea sparsiflora | 1 | ii | iii | ii | i, vi, vii |
| Tricoryne thiniigena ms | 1 | ii ii | iii | ii ii | i, ii, iv, vii, v (rabbits) |
| Verticordia eurardyensis x | 1 | ii | iii | iii | v (goats), iv |
| | 1 | | | ii ii | |
| Verticordia lepidophylla var. quantula Vittadinia cervicularis var. occidentalis | | ii | vi : | | v (goats), iv |
| | 1 | i | i | ii | i, ii, vi, vii |
| PRIORITY 2 | 0 | | | :: | y (goots) !:: |
| Acacia gelasina | 2 | ii | iii | ii | v (goats), iv |
| Acacia lanceolata | 2 | ii :: | iii | iii | i, ii, vi |
| Acacia leptospermoides subsp. obovata | 2 | ii | ii | iii | i, ii, v (goats, pigs) |
| Acacia megacephala | 2 | iii | iv | iii | i, ii |
| Acacia stereophylla var. cylindrata | 2 | ii | iii | iii | i, ii, v |
| Acacia subrigida | 2 | ii | vi | ii | v (goats), iv, vi |
| Anthotroche myoporoides | 2 | iii | iv | iii | v (goats), iv |
| Baeckea sp. Whelarra (AC Burns 7) | 2 | ii | iii | ii | i, ii, v (pigs) |
| Baeckea sp. Yuna (M Trudgen 2224) | 2 | ii | iii | ii | i, ii, v (pigs) |
| Baeckea subcuneata | 2 | ii | iii | iii | v (goats), iv |
| Calectasia browneana | 2 | ii | iii | ii | i, ii, v (pigs, goats) |
| Calytrix harvestiana | 2 | ii | iii | iii | v (goats), iv |
| Calytrix paucicostata | 2 | ii | iii | iii | v (goats, pigs) |
| Calytrix purpurea | 2 | ii | iii | iii | v (goats, pigs) |
| Chthonocephalus tomentellus | 2 | iii | iii | ii | v (goats), iv, vi |
| Comesperma rhadinocarpum | 2 | ii | iii | ii | i, ii, vi |
| Cryptandra glabriflora | 2 | ii | iii | iii | i, ii, v (goats, pigs) |
| Cryptandra nola | 2 | ii | iii | iii | i, ii |
| Cryptandra scoparia var. microcephala | 2 | iii | vi | iii | v (goats, pigs), i, ii |
| Dampiera krauseana | 2 | ii | iii | ii | i, ii, vi |
| Dicrastylis incana | 2 | ii | iii | iii | i, ii |
| Species Name | Status | Condition ¹ | Trend ² | Reliability ³ | Threatening |
| Fullstake dendance | 2 | | | | Processes ⁴ |
| Epitriche demissus | 2 | ii | iii | iii | 1, 11 |
| Eremaea acutifolia | 2 | ii :: | iii | ii | i, ii, vi |
| Frankenia confusa | 2 | ii · | vi | ii | i, ii |
| Grevillea bracteosa | 2 | i | ii | iii | i, ii, vi (numerous) |
| Grevillea stenomera | 2 | ii | iii | iii | v (goats, pigs), iv |
| Guichenotia quasicalva ms | 2 | ii | iii | ii | i, ii, vi (numerous) |
| Hemigenia pimelifolia | 2 | ii | iii | ii | i, ii, vi, v (rabbits, pigs) |
| Homalocalyx inerrabundus | 2 | ii | iii | ii | i, ii, v (goats), iv, vi, vii |
| Leucopogon oblongus ms | 2 | ii | ii | ii | i, ii, vi, vii |
| Malleostemon sp. Kalbarri (LA Craven 7083) | 2 | ii | iii | ii | v (pigs, goats), i, ii, iv, vii, vi |
| Malleostemon sp. Moonyoonooka (RJ Cranfield 2947) | 2 | ii | vi | ii | i, ii, iv, vi, vii |
| Melaleuca filifolia | 2 | | | ii | i, ii, iv, vii, ix, x |

| Verticordia muelleriana subsp. minor | 2 | ii ii | iii | ii ii | v (goats), iv, vii vii, ii, v (pigs) |
|---|--------|------------------------|--------------------|--------------------------|--|
| Verticordia dasystylis subsp. kalbarriensis Verticordia galeata | 2 | ii | iii | ii ii | v (goats, pigs), vii v (goats), iv, vii |
| Verticordia blepharophylla | 2 | ii : | vi | ii ii | i, ii, iv, vii, v (rabbits) |
| Species Name | Status | Condition ¹ | Trend ² | Reliability ³ | Threatening Processes ⁴ |
| Verticordia argentea | 2 | ii | vi | iii | i, ii |
| Verticordia aereiflora | 2 | ii | iii | ii | i, ii, iv, vii, v (rabbits) |
| Thysanotus sp. Badgingarra (EA Griffin 2511) [aff. sparteus] | 2 | ii | vi | ii | i, ii, iv, vii |
| Thysanotus kalbarriensis ms | 2 | ii | iii | ii | ii, vi |
| Thryptomene stenophylla | 2 | ii | iii | iii | ii, xii (roadworks, urban pressu mountain and trail bikes, horse riding), vii, v (rabbits) |
| Thryptomene sp. Yuna Reserve (AC Burns 100) | 2 | ii | iii | ii | ii, v (rabbits), vii |
| Thryptomene sp. Eurardy (Bellairs 1649) | 2 | ii | vi | ii | iv, v (goats) |
| Thryptomene sp. Eneabba (RJ Cranfield 8433) | 2 | ii | vi | ii | vii, vi |
| Thryptomene sp. East Yuna (JW Green 4639) | 2 | ii | iii | ii | ii, v (rabbits), vii |
| Thryptomene sp. Eagle Gorge (AG Gunness 2360) | 2 | ii | iii | ii | v (goats), xii (recreation) |
| Thryptomene johnsonii | 2 | ii | vi | ii | vii, v (goats) |
| Stylidium wilroyense | 2 | ii | iii | ii | i, ii, iv |
| Stenanthemum poicilum | 2 | ii | vi | ii | iv, v (goats) |
| Scholtzia sp. Z-Bend (Bellairs-Kalflora 912A) | 2 | ii | iii | ii | v (goats, pigs), xii (recreation) |
| Scholtzia sp. Ross Graham Lookout (S Maley 6) | 2 | ii | iii | ii | v (goats, pigs), xii (recreation) |
| Scholtzia sp. Murchison River (AS George 7098) | 2 | ii | iii | ii | v (goats, pigs), vii, xii (recreation |
| Scholtzia sp. Geraldton (F Lullfitz 3216) | 2 | ii | iv | ii | i, ii |
| Scholtzia sp. Galena (WE Blackall 4728) | 2 | ii | vi | ii | v (goats), vi |
| Scholtzia sp. Folly Hill (ME Trudgen 12097) | 2 | ii | vi | ii | v (goats), vii, ii |
| Scholtzia sp. Eurardy (JS Beard 6886) | 2 | ii | iii | ii | iv, v (goats) |
| Scholtzia sp. Eradu (RD Royce 8016) | 2 | ii | iii | ii | i, ii, iv, v (goats), vii |
| Scholtzia sp. East Yuna (AC Burns 6) | 2 | ii | iii | ii | i, ii, v (rabbits) |
| Schoenus sp. Kalbarri (K Newbey 9352) | 2 | ii ii | iii | ii | iv, v (goats) |
| Schoenus griffinianus | 2 | ii | vi | ii | i, ii, iv, v (rabbits), vi, vii |
| Schoenus badius | 2 | ii | iii | ii | i, vi |
| Platysace sp. Kalbarri (D & B Bellairs 1383) | 2 | ii ii | vi | ii ii | xii (recreation), vii |
| Persoonia pentasticha Philotheca kalbarriensis | 2 | ii ii | iii vi | i ii | v (goats) iv, i, ii, iv, vii |
| Persoonia brachystylis | 2 | ii | iii | ii ii | iv, v (goats) vi, vii i, ii, iv, v (goats) vi, ix |
| Murchisonia fragrans | 2 | ii :: | iii ::: | ii :: | v (pigs, goats), vi, xii (recreatio |
| Millotia jacksonii | 2 | ii | iii | ii | i, ii, iv, vi, vii |
| Micromyrtus sp. Arrowsmith River (LA Craven 6873 & C Chapman) | 2 | ii | iv | ii | i, ii, iv, vi, vii |
| Microcorys tenuifolia | 2 | ii | iii | ii | i, ii, iv, vi |

¹Appendix C, rank 2; ²Appendix C, rank 3; ³Appendix C, rank 1; ⁴Appendix B, key e

Analysis of appropriate management scenarios

Reservation priorities of ecosystems

| Beard Veg Assoc | Ecosystem Description | | Non-IUCN Reserve | CALM- Purchase d Lease | Priority |
|--------------------|---|---|---------------------|------------------------------|----------|
| 17 | Shrublands; Acacia rostellifera thicket | Χ | | | M |
| 35 | Shrublands; jam scrub with scattered York gum | | | | Н |
| 36 | Shrublands; thicket, acacia-casuarina alliance ?species | | | | L |
| 48 | Shrublands; scrub-heath | | | | L |
| 49 | Shrublands; mixed heath | | | | L |
| 125 | Bare areas; salt lakes | | | | L |

| 129 | Bare areas; drift sand | | L |
|-----|---|----|----------|
| 142 | Medium woodland; York gum & salmon gum | | Н |
| 308 | Mosaic: Shrublands; Acacia sclerosperma sparse scrub/Succulent steppe; saltbush & | Х | L |
| | bluebush | | |
| 325 | Succulent steppe; saltbush & samphire | | L |
| 351 | Shrublands; mallee & acacia scrub with scattered York gum & red mallee | Χ | Н |
| 352 | Medium woodland; York gum | Χ | M |
| 353 | Shrublands; mallee & acacia scrub with scattered York gum | Χ | Н |
| 359 | Shrublands; acacia & banksia scrub | Χ | Н |
| 360 | Shrublands; bowgada scrub with scattered mulga | | Н |
| 364 | Shrublands; bowgada scrub with scattered eucalypts & cypress pine | | L |
| 365 | Shrublands; bowgada & jam scrub with scattered York gum & red mallee | Χ | Н |
| 368 | Shrublands tree-heath between sandhills; Banksia ashbyi, Grevillea gordoniana, Acacia spp., | Х | L |
| 074 | Melaleuca and mallee | ., | |
| 371 | Low forest; Acacia rostellifera | Х | H |
| 372 | Mosaic: Shrublands; scrub-heath on deep sandy flats/Shrublands; thicket, acacia-casuarina alliance | X | L |
| 378 | Shrublands; scrub-heath with scattered Banksia spp E. todtiana & Xylomelum angustifolium | | L |
| | on deep sandy flats in the Geraldton Sandplain Region | | |
| 379 | Shrublands; scrub-heath on lateritic sandplain in the central Geraldton Sandplain Region | Χ | L |
| 380 | Shrublands; scrub-heath on sandplain | Χ | L |
| 383 | Shrublands; Acacia rostellifera scrub-heath | Χ | L |
| 385 | Shrublands; bowgada & jam scrub with scattered York gum | | M |
| 386 | Low woodland; York gum | | Н |
| 387 | Shrublands; Melaleuca cardiophylla thicket | | Н |
| 392 | Shrublands; Melaleuca thyioides thicket | | Н |
| 401 | Mosaic: Shrublands; scrub-heath on coastal association on yellow sandplain/Shrublands; | Х | Н |
| | acacia patchy scrub | | |
| 402 | Shrublands; heath on coastal limestone | Х | M |
| 403 | Shrublands; Acacia ligulata scrub-heath | Х | M |
| 404 | Shrublands; bowgada & Acacia murrayana scrub | | <u> </u> |
| 405 | Shrublands; Acacia sclerosperma, bowgada & jam scrub | | L. |
| 406 | Shrublands; acacia, casuarina, <i>Eucalyptus eudesmioides, Banksia ashbyi</i> & other mixed species thicket | | L |
| 407 | Low woodland over scrub; Allocasuarina huegeliana over jam scrub | X | L |
| 408 | Shrublands; scrub-heath on coastal association, yellow sandplain | Х | L |
| 412 | Succulent steppe with scrub; teatree (Melaleuca thyloides?) over samphire | | Н |
| 413 | Shrublands; Acacia neurophylla & A. species thicket | | Н |
| 420 | Shrublands; bowgada & jam scrub | Х | L |

| Beard Veg Assoc | Ecosystem Description | | Non-IUCN Reserve | CALM- Purchase d Lease | Priority |
|--------------------|---|---|---------------------|------------------------------|----------|
| 424 | Shrublands; York gum mallee scrub | Х | | | L |
| 427 | Shrublands; jam scrub with scattered Allocasuarina huegeliana & York gum | Χ | | | Н |
| 431 | Shrublands; Acacia rostellifera open scrub | Χ | | | Н |
| 433 | Mosaic: Shrublands; Acacia rostellifera & Melaleuca cardiophylla thicket/Sparse low woodland; illyarrie | Х | | | Н |
| 440 | Shrublands; Acacia ligulata open scrub | Χ | Χ | | Н |
| 675 | Shrublands; mixed thicket (melaleuca & hakea?) | Χ | Χ | | Н |
| 687 | Shrublands; bowgada & jam scrub with scattered Allocasuarina huegeliana & York gum | Х | | | Н |
| 1102 | Mosaic: Shrublands; mixed heath/Shrublands; acacia patchy scrub | | Х | | Н |
| 1141 | Shrublands; jam, Acacia rostellifera & Melaleuca megacephala thicket | | | | Н |
| 1142 | Shrublands; Acacia ligulata & Melaleuca uncinata dominated thicket on dark brown loamy soil | Х | | | L |
| 371 | Acacia rostellifera low forest with scattered Eucalyptus camaldulensis on Greenough River Alluvial Flats | | | | М |
| 352 | Clay Flat assemblages of the Irwin River | | | | M |
| 675 | Melaleuca megacephala and Hakea pycnoneura thicket on stony slopes of Moresby Range | Х | | | Н |
| 352 | Plant assemblages of the Irwin River Headwater flats | | | | Н |
| 371 | Plant assemblages of Hutt Lagoon | Х | | | Н |
| 408 | Verticordia dominated low heath on Moresby Range | Х | | | Н |
| 675 | Allocasuarina campestris and Melaleuca uncinata thicket on superficial laterite on Moresby Range | Х | | | Н |
| 371 | Acacia rostellifera low forest | Х | | | Н |
| 17 | Vegetation of Gorges of Murchison River lower reaches. Includes Endangered flora such as Drakaea concolor, Caladenia wanosa, Lechenaultia chlorantha, and Hypocalymma longifolium. Vulnerable flora such as Calytrix harvestiana, Malleostemon sp. Kalbarri, Murchisonia fragrans. | Х | | | L |
| | Vegetation of the Northampton block - Beard's Hutt System. Vegetation type species rich and appears different, reservation rate extremely low, 3 Critically Endangered, 3 Endangered and 8 Vulnerable flora species occur in the area. | | | | Н |
| 379 | Burma Rd Sandplain. Species rich proteaceous sandplains communities containing 3 endangered flora, 7 vulnerable flora. | Х | | | Н |
| | Critical weight range mammals (extant species <i>Trichosurus vulpecula hypoleucus, Macropus eugenii derbianus, Macropus irma;</i> locally extinct species <i>Parantechinus apicalis, Dasyurus geoffroii, Isoodon obesulus, Petrogale lateralis lateralis</i>) | | | | Н |
| | Houtman Abrolhos islands mangrove communities (including seabird nesting sites and Australian Sea lion nursery sites) | | Х | | Н |
| | Houtman Abrolhos Altriplex cinerea dwarf shrubland including nesting burrows of seabirds such as shearwaters and petrels. | | Х | | Н |
| | Pavement limestone, dunes and consolidated dunes on North Island and East and West Wallabi Islands | | Х | | Н |
| | Eucalyptus oraria on East Wallabi Island | | Х | | Н |
| | Saltlake and saltbush flats on islands such as North and West Wallabi | | X | | Н |

L=Low, M=Medium, H=High.

Subregional constraints in order of priority (see Appendix B, key g)

Competing Land Use: The primary issue is that agricultural activities occupy over 79% of the subregion.

Economic Constraints: The cost of land and the cost of subsequent management.

Other: Difficulties in identifying biodiversity values in some areas due to lack of resolution of data. The level of degradation of much of the subregion is significant due to agricultural practices and the impacts of feral herbivores.

Bioregional and subregional priority for reserve consolidation

GS is reservation Class 4 (see Appendix D, and Appendix C, rank 4) because 10 - 15% of its area reserved (any tenure). GS1 has 3.04% of the subregion in conservation reserves. GS2 has 13.84% of the subregion in

conservation reserves. GS3 has 17.67% of the subregion in conservation reserves. GS2 has been extensively cleared for agricultural purposes leaving a biased reserve system and salinity problems are ubiquitous so Class 1 is more appropriate. Two reserves in the northern extremity of GS2 make up over 88% of the conservation estate. GS3 has also been extensively cleared in the eastern portion of the subregion and has salinity problems however reservation levels are higher and more widely spread over the landscape so Class 2 is more appropriate. GS1 has very little conservation estate however threats are less urgent (mainly relating to stock and feral animals) so Class 2 is appropriate.

Reserve management standard

Many Geraldton Sandplains reserves are becoming saline or encountering rising water tables; wildfire management facilities are limited by resources, except for fire breaks and fire-access tracks which are installed and maintained except on areas of Beekeepers Nature Reserve and Nature Reserves smaller than 200 ha; feral herbivore grazing activities now widespread (e.g. Callicivirus hasn't made a

observable difference to rabbit numbers, goats are common in north and east, pigs are undergoing drastic increases in numbers and spread), and feral predator control systems are in place on Kalbarri, Badgingarra and Nambung National Parks only. The reserve management standard for GS2 is poor (see Appendix C, rank 5).

Off reserve conservation

Priority species or groups and existing recovery plans

| Species or System | Specific Recovery | General Recovery Plan |
|--|----------------------|--|
| ' | Plan | |
| Macropus eugenii derbianus | No | Action Plan for Australian Marsupials and Monotremes |
| Petrogale lateralis lateralis | No | Action Plan for Australian Marsupials and Monotremes |
| Falco peregrinus | No | Action Plan for Australian Birds |
| Phaethon rubricauda | No | Action Plan for Australian Birds |
| Leipoa ocellata | Malleefowl | Action Plan for Australian Birds |
| | Preservation Society | |
| | have current Action | |
| | Plan and ongoing | |
| | research | |
| Anous tenuirostris melanops | No Sp. (1, 6) | Action Plan for Australian Birds |
| Calyptorhynchus latirostris | Yes - RP (draft) | Action Plan for Australian Birds |
| Turnix varia scintillans | No | Action Plan for Australian Birds |
| Morelia spilota imbricata | No | Action Plan for Australian Reptiles |
| Egernia stokesii stokesii | No | Action Plan for Australian Reptiles |
| Aspidites ramsayi | No | Action Plan for Australian Reptiles |
| Neophoca cinerea | No | Action Plan for Australian Seals |
| Acacia ampliata | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Acacia forrestiana | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Acacia gelasina Acacia lanceolata | No No | Declared Rare and Poorly Known Flora in the Geraldton District |
| | | Declared Rare and Poorly Known Flora in the Geraldton District |
| Acacia leptospermoides subsp. obovata Acacia lineolata subsp. multilineata | No No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District |
| Acacia imediata subsp. mullilmeata Acacia megacephala | No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District |
| | No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District |
| Acacia nigripilosa subsp. latifolia Acacia pelophila | No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District |
| Acacia peroprina Acacia sp. Dandaragan (S van Leeuwen 269) | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Acacia stereophylla var. cylindrata | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Acacia subrigida Acacia subrigida | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Anthotroche myoporoides | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Baeckea sp. East Yuna (R Spjut & C Edson 7077) | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Baeckea sp. Whelarra (AC Burns 7) | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Baeckea sp. Yuna (M Trudgen 2224) | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Baeckea subcuneata | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Beyeria lepidopetala | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Caladenia barbarella ms | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Caladenia barbarena ms Caladenia bryceana subsp. cracens ms | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Caladenia elegans ms | Yes - IRP | Declared Rare and Poorly Known Flora in the Geraldton District |
| Caladenia hoffmanii subsp. hoffmanii ms | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Caladenia wanosa | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Species or System | Specific Recovery | General Recovery Plan |
| | Plan | |
| Calectasia browneana | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Calytrix harvestiana | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Calytrix paucicostata | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Calytrix purpurea | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Chamelaucium oenanthum ms | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Chorizema humile | Yes - IRP | Declared Rare and Poorly Known Flora in the Geraldton District |
| Chthonocephalus tomentellus | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Comesperma rhadinocarpum | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Conostylis dielsii subsp. teres | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Conostylis micrantha | Yes - IRP | Declared Rare and Poorly Known Flora in the Geraldton District |
| Cryptandra glabriflora | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Cryptandra nola | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Cryptandra scoparia var. microcephala | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| | | |
| Cuphonotus humistratus Dampiera krauseana | No No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District |

| Lipsmortadus alomoratus | 1 | |
|---|---|--|
| Desmocladus glomeratus | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Dicrastylis incana | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Drakaea concolor ms | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Drummondita ericoides | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Epitriche demissus | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Eremaea acutifolia | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Eremophila brevifolia | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Erymophyllum hemisphaericum | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Eucalyptus beardiana | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Eucalyptus blaxellii | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Eucalyptus cuprea | Yes - IRP | Declared Rare and Poorly Known Flora in the Geraldton District |
| Eucalyptus impensa | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Eucalyptus sargentii subsp. fallens | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Frankenia bracteata | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Frankenia confusa | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Gastrolobium hamulosum | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Gastrolobium propinquum | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Gnephosis cassiniana | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Grevillea bracteosa | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Grevillea christineae | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| | | |
| Grevillea fililoba | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Grevillea stenomera | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Guichenotia quasicalva ms | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Hemigenia pimelifolia | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Homalocalyx inerrabundus | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Hydatella leptogyne | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Hypocalymma longifolium | Yes - IRP | Declared Rare and Poorly Known Flora in the Geraldton District |
| Lechenaultia chlorantha | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Leucopogon oblongus ms | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Leucopogon teretostylus ms | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Macarthuria georgeana | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Malleostemon sp. Erangy Springs (M Trudgen 12030) | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Malleostemon sp. Hardabutt Rapids (Bellairs 1654A) | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Malleostemon sp. Kalbarri (LA Craven 7083) | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Malleostemon sp. Moonyoonooka (RJ Cranfield 2947) | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Malleostemon sp. Mullewa (B Winson B7365) | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Malleostemon sp. Unmade Road (Griffin 7537) | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| | | |
| i <i>ivialieostemon</i> sp. yerina (STPatrick 2728) | I No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Malleostemon sp. Yerina (SJ Patrick 2728) Melaleuca filifolia | No No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District |
| Melaleuca filifolia | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Melaleuca filifolia Melaleuca huttensis | No No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District |
| Melaleuca filifolia Melaleuca huttensis Melaleuca oldfieldii | No No No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District |
| Melaleuca filifolia Melaleuca huttensis Melaleuca oldfieldii Microcorys tenuifolia | No No No No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District |
| Melaleuca filifolia Melaleuca huttensis Melaleuca oldfieldii Microcorys tenuifolia Micromyrtus rogeri ms | No No No No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District |
| Melaleuca filifolia Melaleuca huttensis Melaleuca oldfieldii Microcorys tenuifolia | No No No No No Specific Recovery | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District |
| Melaleuca filifolia Melaleuca huttensis Melaleuca oldfieldii Microcorys tenuifolia Micromyrtus rogeri ms Species or System Micromyrtus sp. Arrowsmith River (LA Craven 6873 & C | No No No No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District |
| Melaleuca filifolia Melaleuca huttensis Melaleuca oldfieldii Microcorys tenuifolia Micromyrtus rogeri ms Species or System Micromyrtus sp. Arrowsmith River (LA Craven 6873 & C Chapman) | No No No No No Specific Recovery Plan No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District General Recovery Plan Declared Rare and Poorly Known Flora in the Geraldton District |
| Melaleuca filifolia Melaleuca huttensis Melaleuca oldfieldii Microcorys tenuifolia Micromyrtus rogeri ms Species or System Micromyrtus sp. Arrowsmith River (LA Craven 6873 & C Chapman) Micromyrtus sp. Three Springs (Cranfield 7885) | No No No No No Specific Recovery Plan No No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District General Recovery Plan Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District |
| Melaleuca filifolia Melaleuca huttensis Melaleuca oldfieldii Microcorys tenuifolia Micromyrtus rogeri ms Species or System Micromyrtus sp. Arrowsmith River (LA Craven 6873 & C Chapman) Micromyrtus sp. Three Springs (Cranfield 7885) Millotia jacksonii | No No No No No Specific Recovery Plan No No No No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District General Recovery Plan Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District |
| Melaleuca filifolia Melaleuca huttensis Melaleuca oldfieldii Microcorys tenuifolia Micromyrtus rogeri ms Species or System Micromyrtus sp. Arrowsmith River (LA Craven 6873 & C Chapman) Micromyrtus sp. Three Springs (Cranfield 7885) Millotia jacksonii Murchisonia fragrans | No No No No Specific Recovery Plan No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District General Recovery Plan Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District |
| Melaleuca filifolia Melaleuca huttensis Melaleuca oldfieldii Microcorys tenuifolia Micromyrtus rogeri ms Species or System Micromyrtus sp. Arrowsmith River (LA Craven 6873 & C Chapman) Micromyrtus sp. Three Springs (Cranfield 7885) Millotia jacksonii Murchisonia fragrans Persoonia brachystylis | No No No No Specific Recovery Plan No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District General Recovery Plan Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District |
| Melaleuca filifolia Melaleuca huttensis Melaleuca oldfieldii Microcorys tenuifolia Micromyrtus rogeri ms Species or System Micromyrtus sp. Arrowsmith River (LA Craven 6873 & C Chapman) Micromyrtus sp. Three Springs (Cranfield 7885) Millotia jacksonii Murchisonia fragrans Persoonia brachystylis Persoonia papillosa | No No No No Specific Recovery Plan No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District General Recovery Plan Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District |
| Melaleuca filifolia Melaleuca huttensis Melaleuca oldfieldii Microcorys tenuifolia Micromyrtus rogeri ms Species or System Micromyrtus sp. Arrowsmith River (LA Craven 6873 & C Chapman) Micromyrtus sp. Three Springs (Cranfield 7885) Millotia jacksonii Murchisonia fragrans Persoonia brachystylis Persoonia papillosa Persoonia pentasticha | No No No No No Specific Recovery Plan No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District General Recovery Plan Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District |
| Melaleuca filifolia Melaleuca huttensis Melaleuca oldfieldii Microcorys tenuifolia Micromyrtus rogeri ms Species or System Micromyrtus sp. Arrowsmith River (LA Craven 6873 & C Chapman) Micromyrtus sp. Three Springs (Cranfield 7885) Millotia jacksonii Murchisonia fragrans Persoonia brachystylis Persoonia papillosa Persoonia pentasticha Philotheca kalbarriensis | No No No No No Specific Recovery Plan No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District General Recovery Plan Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District |
| Melaleuca filifolia Melaleuca huttensis Melaleuca oldfieldii Microcorys tenuifolia Micromyrtus rogeri ms Species or System Micromyrtus sp. Arrowsmith River (LA Craven 6873 & C Chapman) Micromyrtus sp. Three Springs (Cranfield 7885) Millotia jacksonii Murchisonia fragrans Persoonia brachystylis Persoonia papillosa Persoonia pentasticha | No No No No No Specific Recovery Plan No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District General Recovery Plan Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District |
| Melaleuca filifolia Melaleuca huttensis Melaleuca oldfieldii Microcorys tenuifolia Micromyrtus rogeri ms Species or System Micromyrtus sp. Arrowsmith River (LA Craven 6873 & C Chapman) Micromyrtus sp. Three Springs (Cranfield 7885) Millotia jacksonii Murchisonia fragrans Persoonia brachystylis Persoonia papillosa Persoonia pentasticha Philotheca kalbarriensis Platysace sp. Kalbarri (D & B Bellairs 1383) Prostanthera scutata | No No No No No Specific Recovery Plan No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District General Recovery Plan Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District |
| Melaleuca filifolia Melaleuca huttensis Melaleuca oldfieldii Microcorys tenuifolia Micromyrtus rogeri ms Species or System Micromyrtus sp. Arrowsmith River (LA Craven 6873 & C Chapman) Micromyrtus sp. Three Springs (Cranfield 7885) Millotia jacksonii Murchisonia fragrans Persoonia brachystylis Persoonia papillosa Persoonia pentasticha Philotheca kalbarriensis Platysace sp. Kalbarri (D & B Bellairs 1383) Prostanthera scutata Pterostylis sp. Northampton (SD Hopper 3349) | No No No No No Specific Recovery Plan No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District General Recovery Plan Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District |
| Melaleuca filifolia Melaleuca huttensis Melaleuca oldfieldii Microcorys tenuifolia Micromyrtus rogeri ms Species or System Micromyrtus sp. Arrowsmith River (LA Craven 6873 & C Chapman) Micromyrtus sp. Three Springs (Cranfield 7885) Millotia jacksonii Murchisonia fragrans Persoonia brachystylis Persoonia papillosa Persoonia pentasticha Philotheca kalbarriensis Platysace sp. Kalbarri (D & B Bellairs 1383) Prostanthera scutata Pterostylis sp. Northampton (SD Hopper 3349) Ptilotus chortophytum | No No No No No No Specific Recovery Plan No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District General Recovery Plan Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District |
| Melaleuca filifolia Melaleuca huttensis Melaleuca oldfieldii Microcorys tenuifolia Micromyrtus rogeri ms Species or System Micromyrtus sp. Arrowsmith River (LA Craven 6873 & C Chapman) Micromyrtus sp. Three Springs (Cranfield 7885) Millotia jacksonii Murchisonia fragrans Persoonia brachystylis Persoonia papillosa Persoonia pentasticha Philotheca kalbarriensis Platysace sp. Kalbarri (D & B Bellairs 1383) Prostanthera scutata Pterostylis sp. Northampton (SD Hopper 3349) | No No No No No Specific Recovery Plan No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District General Recovery Plan Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District |
| Melaleuca filifolia Melaleuca huttensis Melaleuca oldfieldii Microcorys tenuifolia Micromyrtus rogeri ms Species or System Micromyrtus sp. Arrowsmith River (LA Craven 6873 & C Chapman) Micromyrtus sp. Three Springs (Cranfield 7885) Millotia jacksonii Murchisonia fragrans Persoonia brachystylis Persoonia papillosa Persoonia pentasticha Philotheca kalbarriensis Platysace sp. Kalbarri (D & B Bellairs 1383) Prostanthera scutata Pterostylis sp. Northampton (SD Hopper 3349) Ptilotus chortophytum | No No No No No No Specific Recovery Plan No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District General Recovery Plan Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District |
| Melaleuca filifolia Melaleuca huttensis Melaleuca oldfieldii Microcorys tenuifolia Micromyrtus rogeri ms Species or System Micromyrtus sp. Arrowsmith River (LA Craven 6873 & C Chapman) Micromyrtus sp. Three Springs (Cranfield 7885) Millotia jacksonii Murchisonia fragrans Persoonia brachystylis Persoonia papillosa Persoonia pentasticha Philotheca kalbarriensis Platysace sp. Kalbarri (D & B Bellairs 1383) Prostanthera scutata Pterostylis sp. Northampton (SD Hopper 3349) Ptilotus chortophytum Schoenia filifolia subsp. arenicola | No No No No No No Specific Recovery Plan No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District General Recovery Plan Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District |
| Melaleuca filifolia Melaleuca huttensis Melaleuca oldfieldii Microcorys tenuifolia Micromyrtus rogeri ms Species or System Micromyrtus sp. Arrowsmith River (LA Craven 6873 & C Chapman) Micromyrtus sp. Three Springs (Cranfield 7885) Millotia jacksonii Murchisonia fragrans Persoonia brachystylis Persoonia papillosa Persoonia pentasticha Philotheca kalbarriensis Platysace sp. Kalbarri (D & B Bellairs 1383) Prostanthera scutata Pterostylis sp. Northampton (SD Hopper 3349) Ptilotus chortophytum Schoenia filifolia subsp. arenicola Schoenia filifolia subsp. subulifolia | No No No No No No No Specific Recovery Plan No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District General Recovery Plan Declared Rare and Poorly Known Flora in the Geraldton District |
| Melaleuca filifolia Melaleuca huttensis Melaleuca oldfieldii Microcorys tenuifolia Micromyrtus rogeri ms Species or System Micromyrtus sp. Arrowsmith River (LA Craven 6873 & C Chapman) Micromyrtus sp. Three Springs (Cranfield 7885) Millotia jacksonii Murchisonia fragrans Persoonia brachystylis Persoonia papillosa Persoonia pentasticha Philotheca kalbarriensis Platysace sp. Kalbarri (D & B Bellairs 1383) Prostanthera scutata Pterostylis sp. Northampton (SD Hopper 3349) Ptilotus chortophytum Schoenia filifolia subsp. arenicola Schoenia filifolia subsp. subulifolia Schoenus badius Schoenus griffinianus | No No No No No No No Specific Recovery Plan No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District General Recovery Plan Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District |
| Melaleuca filifolia Melaleuca huttensis Melaleuca oldfieldii Microcorys tenuifolia Micromyrtus rogeri ms Species or System Micromyrtus sp. Arrowsmith River (LA Craven 6873 & C Chapman) Micromyrtus sp. Three Springs (Cranfield 7885) Millotia jacksonii Murchisonia fragrans Persoonia brachystylis Persoonia papillosa Persoonia pentasticha Philotheca kalbarriensis Platysace sp. Kalbarri (D & B Bellairs 1383) Prostanthera scutata Pterostylis sp. Northampton (SD Hopper 3349) Ptilotus chortophytum Schoenia filifolia subsp. arenicola Schoenia filifolia subsp. subulifolia Schoenus pariffinianus Schoenus sp. Kalbarri (K Newbey 9352) | No No No No No No No No Specific Recovery Plan No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District General Recovery Plan Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District |
| Melaleuca filifolia Melaleuca huttensis Melaleuca oldfieldii Microcorys tenuifolia Micromyrtus rogeri ms Species or System Micromyrtus sp. Arrowsmith River (LA Craven 6873 & C Chapman) Micromyrtus sp. Three Springs (Cranfield 7885) Millotia jacksonii Murchisonia fragrans Persoonia brachystylis Persoonia papillosa Persoonia pentasticha Philotheca kalbarriensis Platysace sp. Kalbarri (D & B Bellairs 1383) Prostanthera scutata Pterostylis sp. Northampton (SD Hopper 3349) Ptilotus chortophytum Schoenia filifolia subsp. arenicola Schoenia filifolia subsp. subulifolia Schoenus padius Schoenus griffinianus Schoenus sp. Kalbarri (K Newbey 9352) Scholtzia cordata ms | No No No No No No No Specific Recovery Plan No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District General Recovery Plan Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District |
| Melaleuca filifolia Melaleuca huttensis Melaleuca oldfieldii Microcorys tenuifolia Micromyrtus rogeri ms Species or System Micromyrtus sp. Arrowsmith River (LA Craven 6873 & C Chapman) Micromyrtus sp. Three Springs (Cranfield 7885) Millotia jacksonii Murchisonia fragrans Persoonia brachystylis Persoonia papillosa Persoonia pentasticha Philotheca kalbarriensis Platysace sp. Kalbarri (D & B Bellairs 1383) Prostanthera sculata Pterostylis sp. Northampton (SD Hopper 3349) Ptilotus chortophytum Schoenia filifolia subsp. arenicola Schoenia filifolia subsp. subulifolia Schoenus badius Schoenus griffinianus Schoenus griffinianus Schoenus p. Kalbarri (K Newbey 9352) Scholtzia sp. Binnu (M Trudgen 2218) | No No No No No No No No Specific Recovery Plan No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District General Recovery Plan Declared Rare and Poorly Known Flora in the Geraldton District |
| Melaleuca filifolia Melaleuca huttensis Melaleuca oldfieldii Microcorys tenuifolia Micromyrtus rogeri ms Species or System Micromyrtus sp. Arrowsmith River (LA Craven 6873 & C Chapman) Micromyrtus sp. Three Springs (Cranfield 7885) Millotia jacksonii Murchisonia fragrans Persoonia brachystylis Persoonia papillosa Persoonia pentasticha Philotheca kalbarriensis Platysace sp. Kalbarri (D & B Bellairs 1383) Prostanthera scutata Pterostylis sp. Northampton (SD Hopper 3349) Ptilotus chortophytum Schoenia filifolia subsp. arenicola Schoenia filifolia subsp. subulifolia Schoenus griffinianus Schoenus griffinianus Schoenus sp. Kalbarri (K Newbey 9352) Scholtzia sp. Binnu (M Trudgen 2218) Scholtzia sp. Binnu East Road (ME Trudgen 12013) | No No No No No No No Specific Recovery Plan No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District General Recovery Plan Declared Rare and Poorly Known Flora in the Geraldton District |
| Melaleuca filifolia Melaleuca huttensis Melaleuca oldfieldii Microcorys tenuifolia Micromyrtus rogeri ms Species or System Micromyrtus sp. Arrowsmith River (LA Craven 6873 & C Chapman) Micromyrtus sp. Three Springs (Cranfield 7885) Millotia jacksonii Murchisonia fragrans Persoonia brachystylis Persoonia papillosa Persoonia pentasticha Philotheca kalbarriensis Platysace sp. Kalbarri (D & B Bellairs 1383) Prostanthera scutata Pterostylis sp. Northampton (SD Hopper 3349) Ptilotus chortophytum Schoenia filifolia subsp. arenicola Schoenia filifolia subsp. subulifolia Schoenus pafilinianus Schoenus griffinianus Schoenus sp. Kalbarri (K Newbey 9352) Scholtzia cordata ms Scholtzia sp. Binnu (M Trudgen 2218) Scholtzia sp. East Yuna (AC Burns 6) | No No No No No No No Specific Recovery Plan No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District General Recovery Plan Declared Rare and Poorly Known Flora in the Geraldton District |
| Melaleuca filifolia Melaleuca huttensis Melaleuca oldfieldii Microcorys tenuifolia Micromyrtus rogeri ms Species or System Micromyrtus sp. Arrowsmith River (LA Craven 6873 & C Chapman) Micromyrtus sp. Three Springs (Cranfield 7885) Millotia jacksonii Murchisonia fragrans Persoonia brachystylis Persoonia papillosa Persoonia pentasticha Philotheca kalbarriensis Platysace sp. Kalbarri (D & B Bellairs 1383) Prostanthera scutata Pterostylis sp. Northampton (SD Hopper 3349) Ptilotus chortophytum Schoenia filifolia subsp. arenicola Schoenia filifolia subsp. subulifolia Schoenus padius Schoenus griffinianus Schoenus griffinianus Schoenus sp. Kalbarri (K Newbey 9352) Scholtzia cordata ms Scholtzia sp. Binnu (M Trudgen 2218) Scholtzia sp. East Yuna (AC Burns 6) Scholtzia sp. Eradu (RD Royce 8016) | No No No No No No No Specific Recovery Plan No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District General Recovery Plan Declared Rare and Poorly Known Flora in the Geraldton District |
| Melaleuca filifolia Melaleuca huttensis Melaleuca oldfieldii Microcorys tenuifolia Micromyrtus rogeri ms Species or System Micromyrtus sp. Arrowsmith River (LA Craven 6873 & C Chapman) Micromyrtus sp. Three Springs (Cranfield 7885) Millotia jacksonii Murchisonia fragrans Persoonia brachystylis Persoonia papillosa Persoonia pentasticha Philotheca kalbarriensis Platysace sp. Kalbarri (D & B Bellairs 1383) Prostanthera scutata Pterostylis sp. Northampton (SD Hopper 3349) Ptilotus chortophytum Schoenia filifolia subsp. arenicola Schoenia filifolia subsp. subulifolia Schoenus padius Schoenus griffinianus Schoenus griffinianus Schoenus p. Binnu (M Trudgen 2218) Scholtzia cp. Binnu (M Trudgen 2218) Scholtzia sp. East Yuna (AC Burns 6) Scholtzia sp. East Yuna (AC Burns 6) Scholtzia sp. Eurardy (JS Beard 6886) | No No No No No No No Specific Recovery Plan No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District General Recovery Plan Declared Rare and Poorly Known Flora in the Geraldton District Declare |
| Melaleuca filifolia Melaleuca huttensis Melaleuca oldfieldii Microcorys tenuifolia Micromyrtus rogeri ms Species or System Micromyrtus sp. Arrowsmith River (LA Craven 6873 & C Chapman) Micromyrtus sp. Three Springs (Cranfield 7885) Millotia jacksonii Murchisonia fragrans Persoonia brachystylis Persoonia papillosa Persoonia pentasticha Philotheca kalbarriensis Platysace sp. Kalbarri (D & B Bellairs 1383) Prostanthera scutata Pterostylis sp. Northampton (SD Hopper 3349) Pillotus chortophytum Schoenia filifolia subsp. arenicola Schoenia filifolia subsp. subulifolia Schoenus pafilinianus Schoenus griffinianus Schoenus griffinianus Schoenus p. Binnu (M Trudgen 2218) Scholtzia sp. Binnu (Bast Road (ME Trudgen 12013) Scholtzia sp. East Yuna (AC Burns 6) Scholtzia sp. Eradu (RD Royce 8016) Scholtzia sp. Folly Hill (ME Trudgen 12097) | No No No No No No No Specific Recovery Plan No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District General Recovery Plan Declared Rare and Poorly Known Flora in the Geraldton District Declare |
| Melaleuca filifolia Melaleuca huttensis Melaleuca oldfieldii Microcorys tenuifolia Micromyrtus rogeri ms Species or System Micromyrtus sp. Arrowsmith River (LA Craven 6873 & C Chapman) Micromyrtus sp. Three Springs (Cranfield 7885) Millotia jacksonii Murchisonia fragrans Persoonia brachystylis Persoonia papillosa Persoonia pentasticha Philotheca kalbarriensis Platysace sp. Kalbarri (D & B Bellairs 1383) Prostanthera scutata Pterostylis sp. Northampton (SD Hopper 3349) Ptilotus chortophytum Schoenia filifolia subsp. arenicola Schoenia filifolia subsp. subulifolia Schoenus padius Schoenus griffinianus Schoenus griffinianus Schoenus p. Binnu (M Trudgen 2218) Scholtzia cp. Binnu (M Trudgen 2218) Scholtzia sp. East Yuna (AC Burns 6) Scholtzia sp. East Yuna (AC Burns 6) Scholtzia sp. Eurardy (JS Beard 6886) | No No No No No No No Specific Recovery Plan No | Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District Declared Rare and Poorly Known Flora in the Geraldton District General Recovery Plan Declared Rare and Poorly Known Flora in the Geraldton District Declare |

| Scholtzia sp. Kojarena (AM Ashby 1904) | No | Declared Rare and Poorly Known Flora in the Geraldton District |
|--|-------------------|--|
| Scholtzia sp. Murchison River (AS George 7098) | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Scholtzia sp. Nolba (E Place s.n. Jan 1964) | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Scholtzia sp. Ross Graham Lookout (S Maley 6) | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Scholtzia sp. Valentine Road (S Patrick 2142) | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Scholtzia sp. Whelarra (ME Trudgen 12018) | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Scholtzia sp. Z-Bend (Bellairs-Kalflora 912A) | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Stenanthemum bilobum | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Stenanthemum gracilipes | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Stenanthemum poicilum | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Stylidium pseudocaespitosum | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Stylidium wilroyense | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Stylidium xanthopis | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Synaphea oulopha | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Synaphea sparsiflora | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Thryptomene johnsonii | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Thryptomene sp. Eagle Gorge (AG Gunness 2360) | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Thryptomene sp. East Yuna (JW Green 4639) | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Thryptomene sp. Eneabba (RJ Cranfield 8433) | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Thryptomene sp. Eurardy (Bellairs 1649) | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Thryptomene sp. Yuna Reserve (AC Burns 100) | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Thryptomene stenophylla | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Thysanotus kalbarriensis ms | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Thysanotus sp. Badgingarra (EA Griffin 2511) [aff. | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| sparteus] | | |
| Tricoryne thiniigena ms | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Verticordia aereiflora | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Verticordia argentea | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Verticordia blepharophylla | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Verticordia dasystylis subsp. kalbarriensis | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Verticordia eurardyensis x | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Verticordia galeata | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Species or System | Specific Recovery | General Recovery Plan |
| | Plan | |
| Verticordia lepidophylla var. quantula | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Verticordia muelleriana subsp. minor | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Vittadinia cervicularis var. occidentalis | No | Declared Rare and Poorly Known Flora in the Geraldton District |

There is no specific regional recovery plans prepared for the Midwest.

Appropriate species recovery actions

| Species | Recovery Actions ¹ | Recovery Descriptions |
|-------------------------------|----------------------------------|---|
| Macropus eugenii derbianus | i, vi, xii, xiii | Re-vesting of breeding sites as Conservation Reserves. Control of weeds (e.g. Box thorn). Research into threatening processes and monitoring of populations. Capacity building. |
| Petrogale lateralis lateralis | vii, i, ii, ix, xii | Control of feral predators, particularly foxes. Habitat retention through reserves and on private lands. Fire management. Research. |
| Falco peregrinus | xii | Monitoring of existing populations. |
| Phaethon rubricauda | i, vi, xii, xiii | Re-vesting of breeding sites as Conservation Reserves. Control of weeds (e.g. Box thorn). Research into threatening processes and monitoring of populations. Capacity building. |
| Leipoa ocellata | i, ii, iii, vii, ix, xii | Habitat retention through reserves or on other State lands or on private lands. Control of feral predators and herbivores (goats) required. Fire management. Research for reduction of grazing intensity may be required. |
| Anous tenuirostris melanops | i, vi, xii, xiii | Re-vesting of breeding sites as Conservation Reserves. Control of weeds (e.g. Box thorn). Research into threatening processes and monitoring of populations. Capacity building. |
| Calyptorhynchus latirostris | i, ii, iii, vii, xiv | Habitat retention through reserves or on other State lands or on private lands. Control of foxes and cats. Reduction in habitat degradation through grazing pressure. |
| Turnix varia scintillans | i, ii, iii, xii, vii | Re-vesting of breeding sites as Conservation Reserves. Further habitat retention and protection on private lands and other state lands. Monitoring of existing population. Protection from threats such as wildfire. |
| Morelia spilota imbricata | x, vii, xii, i | Reintroduction to previous areas of habitat. Control of feral predators such as foxes and cats. Research into threatening processes other than ferals (e.g. fire regime). Habitat retention through reserves. |
| Egernia stokesii stokesii | x, vii, xii, i | Reintroduction to previous areas of habitat. Re-vesting of breeding sites as Conservation Reserves. Control of feral predators such as foxes and cats. Research. Habitat retention through reserves. |
| Aspidites ramsayi | x, vii, xii, i | Reintroduction to previous areas of habitat. Control of feral predators such as foxes and cats. Research into threatening processes other than ferals (e.g. fire regime). Habitat retention through reserves or on other State lands or on private lands. |
| Neophoca cinerea | i, xiii, vi, xii | Re-vesting of breeding sites as Conservation Reserves. Capacity building through education of fishing industry. Control of weeds (e.g. Box thorn). Monitoring of populations. |
| Acacia ampliata | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of |

| | | herbivores (goats) required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
|---|--------------------------|--|
| Acacia forrestiana | i, ii, iii, ix | Habitat retention through reserves or on other State lands or on private lands. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Acacia gelasina | i, ii, iii, vii, ix, xii | Habitat retention through reserves or on other State lands or on private lands. Control of herbivores (goats) required. Fire management. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Acacia lanceolata | i, ii, iii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Acacia leptospermoides subsp. obovata | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (pigs, goats) required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Acacia lineolata subsp. multilineata | i, ii, iii, xii | Habitat retention through reserves or on other State lands or on private lands. Understanding of life history requirements for all rare flora very limited and needs additional research. |

| Species | Recovery Actions ¹ | Recovery Descriptions |
|---|-----------------------------------|--|
| Acacia megacephala | i, ii, iii, xii | Habitat retention through reserves or on other State lands or on private lands. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Acacia nigripilosa subsp. latifolia | i, ii, iii, xii | Habitat retention through reserves or on other State lands or on private lands. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Acacia pelophila | i, ii, iii, vi, viii, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Weed control. Revegetation. Control of herbivores (goats, rabbits) required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Acacia sp. Dandaragan (S van Leeuwen 269) | i, ii, iii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Acacia stereophylla var. cylindrata | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (pigs, goats) required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Acacia subrigida | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (goats) required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Anthotroche myoporoides | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (goats) required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Baeckea sp. East Yuna (R Spjut & C Edson 7077) | i, ii, iii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Baeckea sp. Whelarra (AC Burns 7) | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (pigs) required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Baeckea sp. Yuna (M Trudgen 2224) | i, ii, iii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Baeckea subcuneata | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (goats) required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Beyeria lepidopetala | i. ii. iii, ix, xii | Habitat retention through reserves or on other State lands or on private lands. Fire ecology needs determination and then management of the area to suit. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Caladenia barbarella ms | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (pigs, goats) required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Caladenia bryceana subsp. cracens ms | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (pigs, goats) required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Caladenia elegans ms | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (pigs, goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Caladenia hoffmanii subsp. hoffmanii ms | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (pigs) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Caladenia wanosa | i, ii, iii, v, vii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (pigs, goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Calectasia browneana | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (pigs, goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Calytrix harvestiana | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (pigs, goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |

| Species | Recovery Actions ¹ | Recovery Descriptions |
|--|----------------------------------|--|
| Calytrix paucicostata | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (pigs, goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Calytrix purpurea | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (pigs, goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Chamelaucium oenanthum ms | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Control of herbivores (pigs, goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Chorizema humile | i, ii, iii, vi, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds possibly required. Control of herbivores required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Chthonocephalus tomentellus | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Comesperma rhadinocarpum | i, ii, iii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Conostylis dielsii subsp. teres | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (rabbits) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Conostylis micrantha | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (rabbits) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Cryptandra glabriflora | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (pigs, goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Cryptandra nola | i, ii, iii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Cryptandra scoparia var. microcephala | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (pigs, goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Cuphonotus humistratus | i, ii, iii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Dampiera krauseana | i, ii, iii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Desmocladus glomeratus | i, ii, iii, vi | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Dicrastylis incana | i, ii, iii, vi, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds possibly required. Control of herbivores required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| <i>Drakaea concolor</i> ms | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (pigs, goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Drummondita ericoides | i, ii, iii, vi | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Epitriche demissus | i, ii, iii, vi, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds possibly required. Control of herbivores required. Understanding of life history requirements for all rare flora very limited and needs additional research. |

| Species | Recovery Actions ¹ | Recovery Descriptions | | |
|--|----------------------------------|---|--|--|
| Eremaea acutifolia | i, ii, iii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. | | |
| Eremophila brevifolia | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (rabbits, pigs) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. | | |
| Erymophyllum hemisphaericum | i, ii, iii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. | | |
| Eucalyptus beardiana | i, ii, iii, ix, x, xii | Habitat retention through reserves or on other State lands or on private lands. Fire ecology needs determination and then management of the area to suit. Translocation. Understanding of life history requirements for all rare flora very limited and needs additional research. | | |
| Eucalyptus blaxellii | i. ii. iii, ix, x, xii | Habitat retention through reserves or on other State lands or on private lands. Fire ecology needs determination and then management of the area to suit. Translocation. Understanding of life history requirements for all rare flora very limited and needs additional research. | | |
| Eucalyptus cuprea | i, ii, iii, v, vii, x, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (pigs, goats) required. Control of weeds possibly required. Translocation. Understanding of life history requirements for all rare flora very limited and needs additional research. | | |
| Eucalyptus impensa | i, ii, iii, ix, xii | Habitat retention through reserves or on other State lands or on private lands. Fire ecology needs determination and then management of the area to suit. Understanding of life history requirements for all rare flora very limited and needs additional research. | | |
| Eucalyptus sargentii subsp. fallens | i, ii, iii, xi, xii | Habitat retention through reserves or on other State lands or on private lands. Research into most appropriate method of dealing with hydrological issues required. Understanding of life history requirements for all rare flora very limited and needs additional research. | | |
| Frankenia bracteata | i, ii, iii, vi, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds possibly required. Control of herbivores required. Understanding of life history requirements for all rare flora very limited and needs additional research. | | |
| Frankenia confusa | i, ii, iii, vi, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds possibly required. Control of herbivores required. Understanding of life history requirements for all rare flora very limited and needs additional research. | | |
| Gastrolobium hamulosum | i, ii, iii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. | | |
| Gastrolobium propinquum | i, ii, iii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. | | |
| Gnephosis cassiniana | i, ii, iii, vi, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds possibly required. Control of herbivores required. Understanding of life history requirements for all rare flora very limited and needs additional research. | | |
| Grevillea bracteosa | i, ii, iii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. | | |
| Grevillea christineae | i. ii. iii, ix, xii | Habitat retention through reserves or on other State lands or on private lands. Fire ecology needs determination and then management of the area to suit. Understanding of life history requirements for all rare flora very limited and needs additional research. | | |
| Grevillea fililoba | i, ii, iii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. | | |
| Grevillea stenomera | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (pigs, goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. | | |
| Guichenotia quasicalva ms | i, ii, iii, vi | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. | | |

| Species | Recovery Actions ¹ | Recovery Descriptions | |
|---|----------------------------------|--|--|
| Hemigenia pimelifolia | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Control of herbivores (pigs, goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. | |
| Homalocalyx inerrabundus | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (pigs, goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. | |
| Hydatella leptogyne | i, ii, iii, xi, xii | Habitat retention through reserves or on other State lands or on private lands. Research required into hydrological requirements and techniques for managing changes in hydrology. Understanding of life history requirements for all rare flora very limited and needs additional research. | |
| Hypocalymma longifolium | i, ii, iii, v, vii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (pigs, goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. | |
| Lechenaultia chlorantha | i, ii, iii, v, vii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (pigs, goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. | |
| Leucopogon oblongus ms | i, ii, iii, xii ix, | Habitat retention through reserves or on other State lands or on private lands. Understanding of life history requirements for all rare flora very limited and needs additional research. Fire ecology needs determination and then management of the area to suit. | |
| Leucopogon teretostylus ms | i, ii, iii, ∨i, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. | |
| Macarthuria georgeana | i, ii, iii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. | |
| Malleostemon sp. Erangy Springs (M Trudgen 12030) | i, ii, iii, ∨i, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. | |
| Malleostemon sp. Hardabutt Rapids (Bellairs 1654A) | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (pigs, goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. | |
| Malleostemon sp. Kalbarri (LA Craven 7083) | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (pigs, goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. | |
| Malleostemon sp. Moonyoonooka (RJ Cranfield 2947) | i, ii, iii, xii, ix | Habitat retention through reserves or on other State lands or on private lands. Understanding of life history requirements for all rare flora very limited and needs additional research. Fire ecology needs determination and then management of the area to suit. | |
| Malleostemon sp. Mullewa (B Winson B7365) | i, ii, iii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. | |
| Malleostemon sp. Unmade Road (Griffin 7537) | i, ii, iii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. | |
| Malleostemon sp. Yerina (SJ Patrick 2728) | i, ii, iii, ix, xii | Habitat retention through reserves or on other State lands or on private lands. Understanding of life history requirements for all rare flora very limited and needs additional research. Fire ecology needs determination and then management of the area to suit. | |
| Melaleuca filifolia | i, ii, iii, xii, ix | Habitat retention through reserves or on other State lands or on private lands. Understanding of life history requirements for all rare flora very limited and needs additional research. Fire ecology needs determination and then management of the area to suit. | |
| Melaleuca huttensis | i, ii, iii, ix, xii | Habitat retention through reserves or on other State lands or on private lands. Understanding of life history requirements for all rare flora very limited and needs additional research. Fire ecology needs determination and then management of the area to suit. | |
| Species | Recovery Actions ¹ | Recovery Descriptions | |
| Melaleuca oldfieldii | i, ii, iii, xii, ix | Habitat retention through reserves or on other State lands or on private lands. Understanding of life history requirements for all rare flora very limited and needs additional research. Fire ecology needs determination and then management of the area to suit. | |
| Microcorys tenuifolia | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores and stock required (possibly with exclosures). Understanding of life history requirements for all rare flora very limited and needs additional research. | |
| <i>Micromyrtus rogeri</i> ms | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores and stock required (possibly with exclosures). Understanding of life history requirements for all rare flora very limited and needs additional research. | |
| Micromyrtus sp. Arrowsmith River (LA Craven 6873 & C Chapman) | i, ii, iii, ix, xii | Habitat retention through reserves or on other State lands or on private lands. Understanding of life history requirements for all rare flora very limited and needs additional research. Fire ecology needs determination and then management of the area to suit. | |
| Micromyrtus sp. Three Springs (Cranfield 7885) | i, ii, iii, ix, xii | Habitat retention through reserves or on other State lands or on private lands. Understanding of life history requirements for all rare flora very limited and needs additional research. Fire ecology needs determination and then management of the area to suit. | |
| Millotia jacksonii | i, ii, iii, ix, xii | Habitat retention through reserves or on other State lands or on private lands. Understanding of life history requirements for all rare flora very limited and needs additional research. Fire ecology needs determination and then management of the area to suit. | |

| Murchisonia fragrans | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (pigs, goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. Tourism uses require monitoring and remedial action if required. |
|---|----------------------------------|---|
| Persoonia brachystylis | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Persoonia papillosa | i, ii, iii, vi | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Persoonia pentasticha | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Philotheca kalbarriensis | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Platysace sp. Kalbarri (D & B Bellairs 1383) | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (pigs, goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. Tourism uses require monitoring and remedial action if required. |
| Prostanthera scutata | i, ii, iii, vi, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Control of herbivores required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Pterostylis sp. Northampton (SD Hopper 3349) | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Control of herbivores (pigs, rabbits) required. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Ptilotus chortophytum | i, ii, iii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Schoenia filifolia subsp. arenicola | i, ii, iii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Schoenia filifolia subsp. subulifolia | i, ii, iii, vi | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Schoenus badius | i, ii, iii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Species | Recovery Actions ¹ | Recovery Descriptions |
| Schoenus griffinianus | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (pigs, goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Schoenus sp. Kalbarri (K Newbey 9352) | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (pigs, goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Scholtzia cordata ms | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Control of herbivores (pigs, goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Scholtzia sp. Binnu (M Trudgen 2218) | i, ii, iii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Scholtzia sp. Binnu East Road (ME Trudgen 12013) | i, ii, iii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Scholtzia sp. East Yuna (AC Burns 6) | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Control of herbivores (rabbits) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Scholtzia sp. Eradu (RD Royce 8016) | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Scholtzia sp. Eurardy (JS Beard 6886) | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Scholtzia sp. Folly Hill (ME Trudgen 12097) | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| <i>Scholtzia</i> sp. Galena (WE Blackall 4728) | i, ii, iii, v, vii, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Scholtzia sp. Geraldton (F Lullfitz 3216) | i, ii, iii, vi | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Scholtzia sp. Kojarena (AM | i, ii, iii, vi | Habitat retention through reserves or on other State lands or on private lands. Control of weeds |

| Ashby 1904) | | required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
|---|-------------------------------------|---|
| Scholtzia sp. Murchison River (AS George 7098) | i, ii, iii, v, vii, vi, xii, xiv | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (pigs, goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. Recreation activities in the area need to be monitored and remedial actions carried out as required. |
| <i>Scholtzia</i> sp. Nolba (E Place s.n. Jan 1964) | i, ii, iii, vi | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Scholtzia sp. Ross Graham Lookout (S Maley 6) | i, ii, iii, v, vii, vi, xii, xiv | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (pigs, goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. Recreation activities in the area need to be monitored and remedial actions carried out as required. |
| Scholtzia sp. Valentine Road (S Patrick 2142) | i, ii, iii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| <i>Scholtzia</i> sp. Whelarra (ME Trudgen 12018) | i, ii, iii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. |

| Species | Recovery Actions ¹ | Recovery Descriptions |
|---|----------------------------------|---|
| Scholtzia sp. Z-Bend (Bellairs- Kalflora 912A) | i, ii, iii, v, vii, xii, xiv | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (pigs, goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. Recreation activities in the area need to be monitored and remedial actions carried out as required. |
| Stenanthemum bilobum | i, ii, iii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Stenanthemum gracilipes | i, ii, iii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Stenanthemum poicilum | i, ii, iii, v, vii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (pigs, goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Stylidium pseudocaespitosum | i, ii, iii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Stylidium wilroyense | i, ii, iii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Stylidium xanthopis | i, ii, iii, xii, ix | Habitat retention through reserves or on other State lands or on private lands. Understanding of life history requirements for all rare flora very limited and needs additional research. Fire ecology needs determination and then management of the area to suit. |
| Synaphea oulopha | i, ii, iii, xii, ix | Habitat retention through reserves or on other State lands or on private lands. Understanding of life history requirements for all rare flora very limited and needs additional research. Fire ecology needs determination and then management of the area to suit. |
| Synaphea sparsiflora | i, ii, iii, xii, ix | Habitat retention through reserves or on other State lands or on private lands. Understanding of life history requirements for all rare flora very limited and needs additional research. Fire ecology needs determination and then management of the area to suit. |
| Thryptomene johnsonii | i, ii, iii, v, vii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Thryptomene sp. Eagle Gorge (AG Gunness 2360) | i, ii, iii, v, vii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Thryptomene sp. East Yuna (JW Green 4639) | i, ii, iii, v, vii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (rabbits) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Thryptomene sp. Eneabba (RJ Cranfield 8433) | i, ii, iii, xii, ix | Habitat retention through reserves or on other State lands or on private lands. Understanding of life history requirements for all rare flora very limited and needs additional research. Fire ecology needs determination and then management of the area to suit. |
| Thryptomene sp. Eurardy (Bellairs 1649) | i, ii, iii, v, vii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Thryptomene sp. Yuna Reserve (AC Burns 100) | i, ii, iii, v, vii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (rabbits) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Thryptomene stenophylla | i, ii, iii, vi, vii, v, xiii | Habitat retention through reserves or on other State lands or on private lands. Control of herbivores required. Control of weeds possibly required. Fencing and capacity building required to prevent damage during roadworks. |

| Species | Recovery Actions ¹ | Recovery Descriptions |
|--|----------------------------------|--|
| Thysanotus kalbarriensis ms | i, ii, iii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Thysanotus sp. Badgingarra (EA Griffin 2511) [aff. sparteus] | i, ii, iii, xii, ix | Habitat retention through reserves or on other State lands or on private lands. Understanding of life history requirements for all rare flora very limited and needs additional research. Fire ecology needs determination and then management of the area to suit. |
| Tricoryne thiniigena ms | i, ii, iii, v, vii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (rabbits) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Verticordia aereiflora | i, ii, iii, v, vii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (rabbits) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Verticordia argentea | i, ii, iii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Control of weeds required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Verticordia blepharophylla | i, ii, iii, v, vii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (rabbits) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Verticordia dasystylis subsp. kalbarriensis | i, ii, iii, v, vii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Verticordia eurardyensis x | i, ii, iii, v, vii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Verticordia galeata | i, ii, iii, v, vii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Verticordia lepidophylla var. quantula | i, ii, iii, v, vii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (goats) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Verticordia muelleriana subsp. minor | i, ii, iii, v, vii, vi, xii | Habitat retention through reserves or on other State lands or on private lands. Fencing. Control of herbivores (pigs) required. Control of weeds possibly required. Understanding of life history requirements for all rare flora very limited and needs additional research. |
| Vittadinia cervicularis var. occidentalis | i, ii, iii, xii, ix, | Habitat retention through reserves or on other State lands or on private lands. Understanding of life history requirements for all rare flora very limited and needs additional research. Fire ecology needs determination and then management of the area to suit. |

¹Appendix B, key h

Ecosystems and existing recovery plans

| System | Beard Vegetation Association | Specific Recovery Plan | General Recovery Plan |
|--|---|------------------------|--|
| Acacia rostellifera low forest with scattered Eucalyptus camaldulensis on Greenough River Alluvial Flats (Beard 1976e, Beard 1976g) | 371 – Low forest: <i>Acacia</i> rostellifera. | IRP | Declared Rare and Poorly Known Flora in the Geraldton District |
| Clay Flat assemblages of the Irwin River (Beard 1976e) | NVIS 29 – Mallee heath and shrublands | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Melaleuca megacephala and Hakea pycnoneura thicket on stony slopes of Moresby Range (Beard 1976g, G. Keighery and N. Gibson pers. comm.) | | No | Declared Rare and Poorly Known Flora in the Geraldton District |

| System | Beard Vegetation Association | Specific Recovery Plan | General Recovery Plan |
|---|--|---|--|
| Eucalyptus macrocarpa over Proteaceous sandplain community (M. Fitzgerald pers. comm.) | 352 – Medium woodland: York gum. | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Plant assemblages of the Irwin River Headwater flats (Beard 1976e) | 675 – Scrublands: mixed thicket (melaleuca & hakea). | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Plant assemblages of Hutt Lagoon (G. Keighery pers. comm.) | 380 – Shrublands: scrub- heath on sandplains. | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Verticordia dominated low heath on Moresby Range (Beard 1976e, G. Keighery and N. Gibson pers. comm.) | 352 – Medium woodland: York gum. | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Allocasuarina campestris and Melaleuca uncinata thicket on superficial laterite on Moresby Range (Beard 1976e, G. Keighery and N. Gibson pers. comm.) | 371 – Low forest: Acacia rostellifera; 440 – Shrublands: Acacia ligulata open scrub. | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Eucalyptus mallee sp. and Acacia scrub with scattered E. loxophleba (Hopkins et al. 1996) | 675 - Scrublands: mixed thicket (melaleuca & hakea). | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Acacia rostellifera low forest (Hopkins et al. 1996) | 675 - Scrublands: mixed thicket (melaleuca & hakea). | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Vegetation of Gorges of Murchison River lower reaches. Includes Endangered flora such as <i>Drakaea concolor</i> , <i>Caladenia wanosa, Lechenaultia chlorantha</i> , and <i>Hypocalymma longifolium</i> . Vulnerable flora such as <i>Calytrix harvestiana</i> , <i>Malleostemon</i> sp. Kalbarri, <i>Murchisonia fragrans</i> . | 353 – Shrublands: mallee & acacia scrub with scattered York gum | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Vegetation of the Northampton block - Beard's Hutt System. Vegetation type species rich and appears different, reservation rate extremely low, 3 Critically Endangered, 3 Endangered and 8 Vulnerable flora species occur in the area. | 371 - Low forest: <i>Acacia</i> rostellifera | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Burma Rd Sandplain. Species rich proteaceous sandplains communities containing 3 endangered flora, 7 vulnerable flora. | 17 – Shrublands: <i>Acacia</i> rostellifera thicket | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Critical weight range mammals (extant species) <i>Trichosurus</i> vulpecula hypoleucus, Macropus eugenii derbianus, Macropus irma; locally extinct species <i>Parantechinus apicalis</i> , <i>Dasyurus geoffroii, Isoodon obesulus, Petrogale lateralis lateralis</i> . | Various | Interim Recovery plans prepared for some species but not for the Ecosystem. | Action Plan for Australian Marsupials and Monotremes |
| Houtman Abrolhos islands mangrove communities (including seabird nesting sites and Australian Sea lion nursery sites) | 379 – Shrublands: scrub- heath on lateritic sandplain in the central Geraldton Sandplain Region | Interim Recovery plans prepared for some species but not for the Ecosystem. | Action Plan for Australian Birds; Recovery Plan for Albatrosses and Giant Petrels; The Action Plan for Australian Seals. |
| Houtman Abrolhos Atriplex cinerea dwarf shrubland including nesting burrows of seabirds such as shearwaters and petrels. | Various | No | Action Plan for Australian Birds; Recovery Plan for Albatrosses and Giant Petrels; The Action Plan for Australian Marsupials and Monotremes |
| Pavement limestone, dunes and consolidated dunes on North Island and East and West Wallabi Islands | NVIS 40 – Mangroves, tidal mudflats and coastal samphire | No | Action Plan for Australian Birds |
| Eucalyptus oraria on East Wallabi Island | NVIS 31 – Chenopod shrublands | | Action Plan for Australian Birds; Declared Rare and Poorly Known Flora in the Geraldton District |

| System | Beard Vegetation Association | Specific Recovery Plan | General Recovery Plan |
|---|--|------------------------|---|
| Saltlake and saltbush flats on islands such as North and West Wallabi | NVIS 39 – Mixed chenopod, samphire and forblands | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Eucalyptus macrocarpa over Proteaceous sandplain community (M. Fitzgerald pers. comm.) | NVIS 39 – Mixed chenopod, samphire and forblands | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Endangered flora of sandplain areas. | 379 – Shrublands: scrub- heath on lateritic sandplain in the central Geraldton Sandplain Region | No | Declared Rare and Poorly Known Flora in the Geraldton District |
| Melaleuca megacephala – Allocasuarina campestris river heath (Lower Chapman River) part of Beard Vegetation Association 359 | 359 – Shrublands: acacia and banksia scrub | No | Declared Rare and Poorly Known Flora in the Geraldton District. |
| Verticordia low heath (Chapman River Regional Park) part of Beard Vegetation Association 359 | 359 - Shrublands: acacia and banksia scrub | No | Declared Rare and Poorly Known Flora in the Geraldton District. |

Appropriate ecosystem recovery actions

| System | Recovery Actions ¹ | Recovery Descriptions |
|--|----------------------------------|--|
| Acacia rostellifera low forest with scattered Eucalyptus camaldulensis on Greenough River Alluvial Flats (Beard 1976e, Beard 1976g) | xii, vi, i | Further survey and research to find other occurrences. Weed control. Research original plant species. Add any further occurrences to conservation estate. |
| Clay Flat assemblages of the Irwin River (Beard 1976e) | i, iii, ii, v, vi, vii, ix | Habitat protection through reserves, on other State lands and on private lands. Fencing as exclosures where feral herbivores are present. Weed control for critical habitats. Feral animal control of rabbits and goats. Fire management, especially for species with generations greater than 5 to 8 years. |
| Melaleuca megacephala and Hakea pycnoneura thicket on stony slopes of Moresby Range (Beard 1976g, G. Keighery and N. Gibson pers. comm.) | i, iii, ii, v, vi, vii, ix | Habitat protection through reserves, on other State lands and on private lands. Fencing as exclosures where feral herbivores are present. Weed control for critical habitats. Feral animal control of rabbits and goats. Fire management, especially for species with generations greater than 5 to 8 years. |
| Eucalyptus macrocarpa over Proteaceous sandplain community (M. Fitzgerald pers. comm.) | i, iii, ii, v, vi, vii, ix | Habitat protection through reserves, on other State lands and on private lands. Fencing as exclosures where feral herbivores are present. Weed control for critical habitats. Feral animal control of rabbits and goats. Fire management, especially for species with generations greater than 5 to 8 years. |
| Plant assemblages of the Irwin River Headwater flats (Beard 1976e) | i, iii, ii, v, vi, vii, ix | Habitat protection through reserves, on other State lands and on private lands. Fencing as exclosures where feral herbivores are present. Weed control for critical habitats. Feral animal control of rabbits and goats. Fire management, especially for species with generations greater than 5 to 8 years. |
| Plant assemblages of Hutt Lagoon (G. Keighery pers. comm.) | i, iii, ii, v, vi, vii, ix | Habitat protection through reserves, on other State lands and on private lands. Fencing as exclosures where feral herbivores are present. Weed control for critical habitats. Feral animal control of rabbits and goats. Fire management, especially for species with generations greater than 5 to 8 years. |
| Verticordia dominated low heath on Moresby Range (Beard 1976e, G. Keighery and N. Gibson pers. comm.) | i, iii, ii, v, vi, vii, ix | Habitat protection through reserves, on other State lands and on private lands. Fencing as exclosures where feral herbivores are present. Weed control for critical habitats. Feral animal control of rabbits and goats. Fire management, especially for species with generations greater than 5 to 8 years. |

| System | Recovery Actions ¹ | Recovery Descriptions |
|---|----------------------------------|--|
| Allocasuarina campestris and Melaleuca uncinata thicket on superficial laterite on Moresby Range (Beard 1976e, G. Keighery and N. Gibson pers. comm.) | i, iii, ii, v, vi, vii, ix | Habitat protection through reserves, on other state lands and on private lands. Fencing as exclosures where feral herbivores are present. Weed control for critical habitats. Feral animal control of rabbits and goats. Fire management, especially for species with generations greater than 5 to 8 years. |
| Eucalyptus mallee sp. and Acacia scrub with scattered E. loxophleba (Hopkins et al. 1996) | i, iii, ii, v, vi, vii, ix | Habitat protection through reserves, on other State lands and on private lands. Fencing as exclosures where feral herbivores are present. Weed control for critical habitats. Feral animal control of rabbits and goats. Fire management, especially for species with generations greater than 5 to 8 years. |
| Acacia rostellifera low forest (Hopkins et al. 1996) | i, iii, ii, v, vi, vii, ix | Habitat protection through reserves, on other State lands and on private lands. Fencing as exclosures where feral herbivores are present. Weed control for critical habitats. Feral animal control of rabbits and goats. Fire management, especially for species with generations greater than 5 to 8 years. |
| Vegetation of Gorges of Murchison River lower reaches. Includes Endangered flora such as <i>Drakaea concolor</i> , <i>Caladenia wanosa, Lechenaultia chlorantha</i> , and <i>Hypocalymma longifolium</i> . Vulnerable flora such as <i>Calytrix harvestiana</i> , <i>Malleostemon</i> sp. Kalbarri, <i>Murchisonia fragrans</i> . | i, iii, ii, v, vi, vii, ix | Habitat protection through reserves, on other State lands and on private lands. Fencing as exclosures where feral herbivores are present. Weed control for critical habitats. Feral animal control of rabbits, goats and pigs. Fire management, especially for species with generations greater than 5 to 8 years. |
| Vegetation of the Northampton block - Beard's Hutt System. Vegetation type species rich and appears different, reservation rate extremely low, 3 Critically Endangered, 3 Endangered and 8 Vulnerable flora species occur in the area. | i, iii, ii, v, vi, vii, ix | Habitat protection through reserves, on other State lands and on private lands. Fencing as exclosures where feral herbivores are present. Weed control for critical habitats. Feral animal control of rabbits and goats. Fire management, especially for species with generations greater than 5 to 8 years. |
| Burma Rd Sandplain. Species rich proteaceous sandplains communities containing 3 endangered flora, 7 vulnerable flora. | i, iii, ii, v, vi, vii, ix | Habitat protection through reserves, on other State lands and on private lands. Fencing as exclosures where feral herbivores are present. Weed control for critical habitats. Feral animal control of rabbits and goats. Fire management, especially for species with generations greater than 5 to 8 years. |
| Critical weight range mammals (extant species) <i>Trichosurus</i> vulpecula hypoleucus, Macropus eugenii derbianus, Macropus irma; locally extinct species Parantechinus apicalis, Dasyurus geoffroii, Isoodon obesulus, Petrogale lateralis lateralis. | i, iii, ii, v, vi, vii, ix | Habitat protection through reserves, on other State lands and on private lands. Fencing as exclosures where feral herbivores are present. Weed control for critical habitats. Feral animal control of rabbits and goats. Fire management, especially for species with generations greater than 5 to 8 years. |
| Houtman Abrolhos islands mangrove communities (including seabird nesting sites and Australian Sea lion nursery sites) | i, iii, ii, vi, ix | Habitat protection through reserves, on other State lands and on private lands. Weed control for critical habitats. Fire management, especially for species with generations greater than 5 to 8 years. |
| Houtman Abrolhos Atriplex cinerea dwarf shrubland including nesting burrows of seabirds such as shearwaters and petrels. | i, iii, ii, vi, ix | Habitat protection through reserves, on other State lands and on private state lands. Weed control for critical habitats. Fire management, especially for species with generations greater than 5 to 8 years. |
| Pavement limestone, dunes and consolidated dunes on North Island and East and West Wallabi Islands | i, iii, ii, vi, ix | Habitat protection through reserves, on other State lands and on private lands. Weed control for critical habitats. Fire management, especially for species with generations greater than 5 to 8 years. |
| Eucalyptus oraria on East Wallabi Island | i, iii, ii, vi, ix | Habitat protection through reserves, on other State lands and on private lands. Weed control for critical habitats. Fire management, especially for species with generations greater than 5 to 8 years. |

| System | Recovery Actions ¹ | Recovery Descriptions |
|---|----------------------------------|---|
| Saltlake and saltbush flats on islands such as North and West Wallabi | i, iii, ii, vi, ix | Habitat protection through reserves, on other State lands and on private lands. Weed control for critical habitats. Fire management, especially for species with generations greater than 5 to 8 years. |
| Eucalyptus macrocarpa over Proteaceous sandplain community (M. Fitzgerald pers. comm.) | i, iii, ii, v, vi, vii, ix | Habitat protection through reserves, on other State lands and on private lands. Fencing as exclosures where feral herbivores are present. Weed control for critical habitats. Feral animal control of rabbits, goats and foxes. Fire management, especially for species with generations greater than 5 to 8 years. |
| Endangered flora of sandplain areas. | i, iii, ii, v, vi, vii, ix | Habitat protection through reserves, on other State lands and on private lands. Fencing as exclosures where feral herbivores are present. Weed control for critical habitats. Feral animal control of rabbits, goats and foxes. Fire management, especially for species with generations greater than 5 to 8 years. |
| Melaleuca megacephala – Allocasuarina campestris river heath (Lower Chapman River) part of Beard Vegetation Association 359 | i, iii, ii, v, vi, vii, ix | Habilat protection through reserves, on other State lands and on private lands. Fencing as exclosures where feral herbivores are present. Weed control for critical habitats. Feral animal control of rabbits, goats and foxes. Fire management, especially for species with generations greater than 5 to 8 years. |
| Verticordia low heath (Chapman River Regional Park) part of Beard Vegetation Association 359 | i, iii, ii, v, vi, vii, ix | Habitat protection through reserves, on other State lands and on private lands. Fencing as exclosures where feral herbivores are present. Weed control for critical habitats. Feral animal control of rabbits, goats and foxes. Fire management, especially for species with generations greater than 5 to 8 years. |

¹Appendix B, key h

Most communities have various component species covered by recovery or action plans, but these are not yet available for the community unit.

Subregion priority for off reserve conservation

The subregional priority for off park conservation in GS2 has a rank of (ii) (see Appendix C, rank 6) indicating a large off-park effort is required.

Conservation actions as an integral part of NRM

Existing NRM actions

| NRM Action | Description | Effectiveness | |
|--|---|--|--|
| Legislation | Soil conservation and land clearing legislation. | Low. Not rigorously enforced, penalties ineffective. | |
| Incentives | Covenanting of bushland by landholders | Incentives are inadequate (e.g. rate or tax deductibility, lack of management advice and assistance). | |
| Capacity Building | Bushcare Programme, leadership training for volunteer organizations. | Uptake low. | |
| Other Planning Opportunities | Batavia Coast Regional Strategy, Local Government strategies for controlling development and assessing proposals | Low to moderate. Frequently discussion of NRM is minimal. | |
| Integration with Property Management Planning, Catchment Planning and Landcare | Number of Land Conservation District Committees; Northern Agriculture Catchment Council (NACC) is the Regional NRM group (mixed Government, landholders and community representation). | Low to moderate. LCDCs are largely inactive focused on enterprise activities. NACC is poor representative and with limited capacity but is improving. NACC strategy will set priorities for future funding opportunities with NHT2 and the National Action Plan for salinity | |

Feasible opportunities for NRM

Legislation: Requires more rigorous control.

Institutional Reform: Rural reconstruction, industry reconstruction, new tenure and management arrangements.

Tradable Rights: Carbon credits would provide impetus to new revegetation efforts.

Other Planning Opportunities: Including local government planning and National Action Plan for Water Quality and Salinity. NACC strategy will set priorities for

future funding opportunities with NHT2 and the National Action Plan for salinity. As fragmentation and decline of remnant vegetation is the top priority in this strategy, it provides an excellent opportunity to obtain funding for biodiversity.

Integration with Property Management Planning, Catchment Planning and Landcare

Other: Increasing the role of NRM in all agricultural activities.

Impediments or constraints to opportunities

A number of impediments exist. The current role of Government Departments in NRM and policing of activities such as land clearing is fragmented and unclear. Departments who have responsibility for resource exploitation may also have resource protection roles. Penalties for undertaking activities such as land clearing are comparatively minor and do not have the support of the greater rural community. Need to increase awareness of conservation values through education of various industries (mining, agricultural) and the public in general. Limited financial resources are also a major constraint

Subregions where specific NRM actions are a priority to pursue

The NRM priority for GS2 (i) (see Appendix C, rank 7), indicating that there are major constraints. It is a similar situation as AW1 & MAL2.

Data gaps

Gaps in data needed for the identification of biodiversity values and management responses

Vegetation and Regional Ecosystem Mapping: Regolith mapping availability limited to very small areas

(less than 5%) of the subregion at a scale of 1:50 000. Beards vegetation is mapped at a resolution of 1:250 000 at best. This data is critical, without more data further analysis and prioritisation can't occur.

Systematic Fauna Survey: Although a regional fauna survey has been completed, it was sparse (18 terrestrial quadrats and 4 wetland quadrats across subregion), with quadrats only positioned on 10 of the most widespread surface-types and only 1-2 quadrats per surface-type. Also, it was confined to vertebrates and selected invertebrate taxa, and few quadrats were sampled on more than two occasions. There is no long-term survey data on species population trends in most reserves, even for vertebrates.

Floristic Data: Although regional survey of flora has been completed, it is based on very sparse sampling (71 quadrats across subregion), with the quadrats confined to the 11 most widespread surface-types.

Ecological and Life History Data: There is little data on habitat requirements of virtually all invertebrate species, most ephemeral plants, persisting CWR mammals, and uncommon vertebrate and plant species. There is no data to provide a regional context on lifehistory(including population-trend) of most species, including CWR mammals and introduced pests such as rabbits, goats, cats and foxes.

Other Data Gaps Include: There is little quantitative data on the affect of exotic predators, and no quantitative data on the affect of weed colonisation, fragmentation, fire and introduced herbivores.

Sources

References cited

| No. | Author | Date | Title | Publication Details | Pub. Type |
|-----|---|----------|---|--|--------------|
| 069 | Beard, J.S. | (1976e). | Vegetation Survey of Western Australia. The Vegetation of the Geraldton Area, Western Australia. 1:250,000 series. | Vegmap Publications: Applecross. | Ö |
| 071 | Beard, J.S. | (1976g). | The vegetation of the Ajana Area Western Australia. Vegetation Survey of Western Australia. | National Library of Australia. | 0 |
| 090 | Benshemesh, J. | (2000). | National Recovery Plan for Malleefowl. | Department of Environment and Heritage, South Australia. | R |
| 142 | Cale, B. | (2000a). | Carnaby's Black-Cockatoo (<i>Calyptorhynchus latirostris</i>). Draft Recovery Plan Recovery Plan No. <i>II</i> . | Department of Conservation and Land Management. | R |
| 181 | Cogger, H., Cameron, E., Sadlier, R. and Eggler, P. | (1993). | The Action Plan for Australian Reptiles. | Australian Nature Conservation Agency, Canberra. | R |
| 274 | Environmental Protection Authority | (1976). | Conservation Reserves for Western Australia. Systems 1,2,3,4. | Environment Protection Authority, Perth. | R |
| 270 | Environmental Protection Authority | (1974). | Conservation Reserves for Western Australia. | Environmental Protection Authority, Perth. | R |
| 814 | Evans, R., Brown, A. and English, V. | (1999). | Mallee box (<i>Eucalyptus cuprea</i>) Interim Recovery Plan 1999-2002 (IRP No 43) | Department of Conservation and Land Management, Perth | 0 |
| 298 | Garnett, S.T. and Crowley, G.M. | (2000). | The Action Plan for Australian Birds. | Environment Australia, Canberra. | R |
| 813 | Holland, E., Kershaw, K. and Brown, A. | (1997). | Small flowered Conostylis (Conostylis micrantha) Interim Recovery Plan 1996-1999 (IRP No 29) | Department of Conservation and Land Management, Perth | 0 |
| 371 | Hopkins, A.J.M., Coker, J., Beeston, G.R., Bowen, P. and Harvey, J.M. | (1996). | Conservation Status of Vegetation Types throughout Western Australia, Australian Nature Conservation Agency National Reserves Systems Co-operative Program Project No N703 Final Report May 1996. | Department of Conservation and Land Management, Western Australia and Department of Agriculture, Western Australia. | R |
| 483 | Maxwell, S., Burbidge, A.A. and Morris, K. (eds). | (1996). | The 1996 Action Plan for Australian Marsupials and Monotremes. Wildlife Australia Endangered Species Program Project Number 50. | Environment Australia, Canberra. | R |
| 537 | Patrick, S.J. | (2001). | Declared Rare and Poorly Known Flora in the Geraldton District. Wildlife Management Program No. 26. | Department of Conservation and Land Management. | R |
| 815 | Phillimore, R. and English, V. | (2001). | Long-leaved myrtle (<i>Hypocalymma</i> longifolium) Interim Recovery Plan 2001-2004 (IRP No 88) | Department of Conservation and Land Management, Perth | 0 |
| 812 | Phillimore, R., Brown, A., Kershaw, K., Holland, E. and English, V. | (2000). | Elegant spider orchid (<i>Caladenia</i> <i>elegans</i> ms) Interim Recovery Plan 2000-2003 (IRP No 63) | Department of Conservation and Land Management, Perth | 0 |
| 781 | Shaugnessy, P.D. | (1999). | The action plan for Australian seals | Environment Australia, Canberra. | 0 |
| 731 | Stack, G. and English, V. | (1999). | Prostrate Flame Flower (<i>Chorizema humile</i>) Interim Recovery Plan 1999-2002 (IRP No 31) | Department of Conservation and Land Management | 0 |

R = Report; J = Journal article; O = Other.

Other relevant publications

See reference numbers 026, 065, 070, 083, 094, 101, 114, 118, 128, 137, 162, 241, 267, 268, 273, 277, 285, 294, 299, 326, 335, 341, 347, 369, 381, 387, 406, 412, 419, 429, 451, 459, 476, 526, 531, 562, 731, 633, 647, 648, 685, 686 and 811 in Appendix A.