

# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Robinvale Plains bioregion

### EVC 86: Woorinen Sands Mallee

#### Description:

Mallee shrubland to 7 m tall, typically supporting a hummock grass (*Triodia* spp.) dominated understorey. This EVC could be considered intermediate between the heavier soil mallee woodlands and the lighter sandy soil mallee vegetation predominant on Lowan (siliceous) sand.

#### Large trees:

| Species                | DBH(cm) | #/ha  |
|------------------------|---------|-------|
| <i>Eucalyptus</i> spp. | 15 cm   | 30/ha |

#### Tree Canopy Cover:

| % cover | Character Species             | Common Name         |
|---------|-------------------------------|---------------------|
| 25%     | <i>Eucalyptus dumosa</i>      | Dumosa Mallee       |
|         | <i>Eucalyptus leptophylla</i> | Slender-leaf Mallee |
|         | <i>Eucalyptus socialis</i>    | Grey Mallee         |

#### Understorey:

| Life form                           | #Spp | %Cover | LF code |
|-------------------------------------|------|--------|---------|
| Medium Shrub                        | 4    | 5%     | MS      |
| Small Shrub                         | 2    | 10%    | SS      |
| Prostrate Shrub                     | 1    | 5%     | PS      |
| Medium Herb                         | 6    | 5%     | MH      |
| Small or Prostrate Herb*            | 6    | 5%     | SH      |
| Hummock Grass                       | 1    | 15%    | HG      |
| Medium to Small Tufted Graminoid    | 3    | 5%     | MTG     |
| Medium to Tiny Non-tufted Graminoid | 1    | 1%     | MNG     |
| Bryophytes/Lichens                  | na   | 10%    | BL      |
| Soil Crust                          | na   | 10%    | S/C     |

\* Largely seasonal life form

**Total understorey projective foliage cover 65%**

| LF Code | Species typical of at least part of EVC range      | Common Name                 |
|---------|--|-----------------------------|
| MS      | <i>Melaleuca lanceolata</i> ssp. <i>lanceolata</i> | Moonah                      |
| MS      | <i>Myoporum platycarpum</i>                        | Sugarwood                   |
| MS      | <i>Dodonaea bursariifolia</i>                      | Small Hop-bush              |
| MS      | <i>Acacia wilhelmiana</i>                          | Dwarf Nealie                |
| SS      | <i>Sclerolaena parviflora</i>                      | Mallee Copperburr           |
| SS      | <i>Halgania cyanea</i>                             | Rough Halgania              |
| SS      | <i>Sclerolaena diacantha</i>                       | Grey Copperburr             |
| SS      | <i>Westringia rigida</i>                           | Stiff Westringia            |
| LH      | <i>Helichrysum leucopsidium</i>                    | Satin Everlasting           |
| LH      | <i>Waitzia acuminata</i> var. <i>acuminata</i>     | Orange Immortelle           |
| MH      | <i>Podolepis capillaris</i>                        | Invisible Daisy             |
| MH      | <i>Goodenia willisiana</i>                         | Sandhill Goodenia           |
| MH      | <i>Vittadinia dissecta</i>                         | Dissected New Holland Daisy |
| MH      | <i>Podotheca angustifolia</i>                      | Sticky Long-heads           |
| SH      | <i>Actinobole uliginosum</i>                       | Flannel Cudweed             |
| SH      | <i>Calotis hispidula</i>                           | Hairy Burr-daisy            |
| SH      | <i>Crassula sieberiana</i>                         | Australian Stonecrop        |
| SH      | <i>Ptilotus seminudis</i>                          | Rabbit-tails                |
| HG      | <i>Triodia scariosa</i>                            | Porcupine Grass             |
| MTG     | <i>Austrostipa mollis</i>                          | Supple Spear-grass          |
| MTG     | <i>Lomandra effusa</i>                             | Scented Mat-rush            |
| MTG     | <i>Lomandra leucocephala</i> ssp. <i>robusta</i>   | Woolly Mat-rush             |
| MTG     | <i>Austrostipa elegantissima</i>                   | Feather Spear-grass         |

# EVC 86: Woorinen Sands Mallee – Robinvale Plains bioregion

**Recruitment:**

Continuous

**Organic Litter:**

15% cover

**Logs:**

10m/0.1 ha (note: large log class does not apply)

**Weediness:**

| LF Code | Typical Weed Species          | Common Name          | Invasive | Impact |
|---------|-------------------------------|----------------------|----------|--------|
| T       | <i>Olea europaea</i>          | Olive                | high     | high   |
| LH      | <i>Brassica tournefortii</i>  | Mediterranean Turnip | high     | high   |
| LH      | <i>Opuntia</i> spp.           | Prickly Pear         | high     | high   |
| MH      | <i>Gazania linearis</i>       | Gazania              | high     | high   |
| SC      | <i>Asparagus asparagoides</i> | Bridal Creeper       | high     | high   |

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Robinvale Plains bioregion

### EVC 91: Loamy Sands Mallee

#### Description:

Semi-arid low mallee shrubland to 5 m tall, typically supporting scattered shrubs above a hummock grass field layer. Typically occurs on deep drifts of Lowan sands in the lee of ridge systems or occupying dune crests and swales in the parabolic and irregularly arranged dune in the Central Mallee and Sunset Country.

#### Tree Canopy Cover:

| % cover | Character Species             | Common Name         |
|---------|-------------------------------|---------------------|
| 25%     | <i>Eucalyptus incrassata</i>  | Yellow Mallee       |
|         | <i>Eucalyptus leptophylla</i> | Slender-leaf Mallee |
|         | <i>Eucalyptus socialis</i>    | Grey Mallee         |

#### Understorey:

| Life form   | #Spp | %Cover     | LF code |
|---|------|------------|---------|
| Medium Shrub                                      | 5    | 20%        | MS      |
| Small Shrub                                       | 5    | 10%        | SS      |
| Large Herb  | 2    | 1%         | LH      |
| Medium Herb                                       | 6    | 10%        | MH      |
| Small or Prostrate Herb                           | 2    | 1%         | SH      |
| Hummock Grass                                     | 1    | 5%         | HG      |
| Large Tufted Graminoid                            | 1    | 1%         | LTG     |
| Medium to Small Tufted Graminoid                  | 3    | 5%         | MTG     |
| Bryophytes/Lichens                                | na   | 10%        | BL      |
| Soil Crust  | na   | 10%        | S/C     |
| <b>Total understorey projective foliage cover</b> |      | <b>60%</b> |         |

| LF Code | Species typical of at least part of EVC range     | Common Name           |
|---------|---|-----------------------|
| MS      | <i>Callitris verrucosa</i>                        | Scrub Cypress-pine    |
| MS      | <i>Leptospermum coriaceum</i>                     | Mallee Tea-tree       |
| MS      | <i>Acacia ligulata</i>                            | Sandhill Wattle       |
| MS      | <i>Bertya mitchellii</i>                          | Mitchell Bertya       |
| SS      | <i>Hibbertia riparia</i>                          | Erect Guinea-flower   |
| SS      | <i>Hibbertia virgata</i>                          | Twiggy Guinea-flower  |
| SS      | <i>Halgania cyanea</i>                            | Rough Halgania        |
| SS      | <i>Brachyloma ericoides</i> ssp. <i>ericoides</i> | Brush Heath           |
| LH      | <i>Helichrysum leucopsidium</i>                   | Satin Everlasting     |
| MH      | <i>Podotheca angustifolia</i>                     | Sticky Long-heads     |
| MH      | <i>Millotia tenuifolia</i> var. <i>tenuifolia</i> | Soft Millotia         |
| MH      | <i>Glischrocaryon behrii</i>                      | Golden Pennants       |
| MH      | <i>Podolepis capillaris</i>                       | Invisible Plant       |
| SH      | <i>Actinobole uliginosum</i>                      | Flannel Cudweed       |
| SH      | <i>Millotia muelleri</i>                          | Common Bow-flower     |
| SH      | <i>Calotis hispidula</i>                          | Hairy Burr-daisy      |
| HG      | <i>Triodia scariosa</i>                           | Porcupine Grass       |
| LTG     | <i>Austrostipa mollis</i>                         | Supple Spear-grass    |
| MTG     | <i>Lomandra leucocephala</i> ssp. <i>robusta</i>  | Woolly Mat-rush       |
| MTG     | <i>Austrodanthonia setacea</i>                    | Bristly Wallaby-grass |
| MTG     | <i>Lepidosperma viscidum</i>                      | Sticky Sword-sedge    |
| MTG     | <i>Lomandra collina</i>                           | Pale Mat-rush         |
| SC      | <i>Thysanotus patersonii</i>                      | Twining Fringe-lily   |

# EVC 91: Loamy Sands Mallee – Robinvale Plains bioregion

**Recruitment:**

Episodic/Fire. Desirable period between disturbances is 20 years.

**Organic Litter:**

15% cover

**Logs:**

5m/0.1 ha (note: large log class does not apply)

**Weediness:**

| LF Code | Typical Weed Species          | Common Name           | Invasive | Impact |
|---------|-------------------------------|-----------------------|----------|--------|
| LH      | <i>Sonchus oleraceus</i>      | Common Sow-thistle    | high     | low    |
| MH      | <i>Hypochoeris glabra</i>     | Smooth Cat's-ear      | high     | low    |
| MNG     | <i>Ehrharta calycina</i>      | Perennial Veldt Grass | high     | high   |
| MNG     | <i>Vulpia myuros</i>          | Rat's-tail Fescue     | high     | low    |
| SC      | <i>Asparagus asparagoides</i> | Bridal Creeper        | high     | high   |

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Robinvale Plains bioregion

### EVC 96: Ridged Plains Mallee

#### Description:

Open, quite grassy mallee woodland to 10 m tall, typical of the gently undulating "plains" of the Wimmera and Southern Mallee. Soils are somewhat variable but are typically duplex with grey or brown sandy clay loam or clay loam topsoils of aeolian origin.

#### Large trees:

| Species                         | DBH(cm) | #/ha  |
|---------------------------------|---------|-------|
| <i>Eucalyptus</i> spp.          | 30 cm   | 15/ha |
| <i>Allocasuarina luehmannii</i> | 40 cm   |       |

#### Tree Canopy Cover:

| % cover | Character Species               | Common Name   |
|---------|---------------------------------|---------------|
| 10%     | <i>Eucalyptus dumosa</i>        | Dumosa Mallee |
|         | <i>Eucalyptus behriana</i>      | Bull Mallee   |
|         | <i>Allocasuarina luehmannii</i> | Buloke        |

#### Understorey:

| Life form                           | #Spp | %Cover | LF code |
|-------------------------------------|------|--------|---------|
| Immature Canopy Tree                |      | 5%     | IT      |
| Medium Shrub                        | 3    | 5%     | MS      |
| Small Shrub                         | 3    | 10%    | SS      |
| Prostrate Shrub                     | 1    | 1%     | PS      |
| Large Herb                          | 2    | 5%     | LH      |
| Medium Herb*                        | 5    | 10%    | MH      |
| Small or Prostrate Herb*            | 5    | 15%    | SH      |
| Large Tufted Graminoid              | 1    | 5%     | LTG     |
| Large Non-tufted Graminoid          | 1    | 1%     | LNG     |
| Medium to Small Tufted Graminoid    | 3    | 20%    | MTG     |
| Medium to Tiny Non-tufted Graminoid | 1    | 1%     | MNG     |
| Bryophytes/Lichens                  | na   | 10%    | BL      |
| Soil Crust                          | na   | 20%    | S/C     |

\* Largely seasonal lifeform

| LF Code | Species typical of at least part of EVC range     | Common Name            |
|---------|---|------------------------|
| MS      | <i>Acacia melvillei</i>                           | Myall                  |
| MS      | <i>Acacia oswaldii</i>                            | Umbrella Wattle        |
| MS      | <i>Eremophila longifolia</i>                      | Berrigan               |
| SS      | <i>Maireana brevifolia</i>                        | Short-leaf Bluebush    |
| SS      | <i>Sclerolaena diacantha</i>                      | Grey Copperburr        |
| SS      | <i>Rhagodia spinescens</i>                        | Hedge Saltbush         |
| SS      | <i>Enchylaena tomentosa</i> var. <i>tomentosa</i> | Ruby Saltbush          |
| PS      | <i>Atriplex semibaccata</i>                       | Berry Saltbush         |
| MH      | <i>Einadia nutans</i> ssp. <i>nutans</i>          | Nodding Saltbush       |
| MH      | <i>Maireana enchylaenoides</i>                    | Wingless Bluebush      |
| MH      | <i>Maireana excavata</i>                          | Bottle Bluebush        |
| MH      | <i>Maireana enchylaenoides</i>                    | Wingless Bluebush      |
| SH      | <i>Chenopodium desertorum</i>                     | Frosted Goosefoot      |
| SH      | <i>Oxalis perennans</i>                           | Grassland Wood-sorrel  |
| SH      | <i>Brachyscome lineariloba</i>                    | Hard-head Daisy        |
| SH      | <i>Hyalosperma</i> spp.                           | Sunray                 |
| LTG     | <i>Austrostipa aristiglumis</i>                   | Plains Grass           |
| MTG     | <i>Austrodanthonia setacea</i>                    | Bristly Wallaby-grass  |
| MTG     | <i>Austrodanthonia caespitosa</i>                 | Common Wallaby-grass   |
| MTG     | <i>Austrostipa scabra</i>                         | Rough Spear-grass      |
| LNG     | <i>Austrostipa platychaeta</i>                    | Flat-awned Spear-grass |
| MNG     | <i>Austrostipa elegantissima</i>                  | Feather Spear-grass    |

# EVC 96: Ridged Plains Mallee – Robinvale Plains bioregion

**Recruitment:**

Continuous

**Organic Litter:**

5% cover

**Logs:**

5m/0.1 ha.

**Weediness:**

| LF Code | Typical Weed Species       | Common Name  | Invasive | Impact |
|---------|----------------------------|--------------|----------|--------|
| MTG     | <i>Critesion murinum</i>   | Barley-grass | high     | low    |
| MTG     | <i>Bromus diandrus</i>     | Great Brome  | high     | high   |
| MNG     | <i>Bromus rubens</i>       | Red Brome    | high     | high   |
| MH      | <i>Marrubium vulgare</i>   | Horehound    | high     | high   |
| MNG     | <i>Vulpia</i> spp.         | Fescue       | high     | low    |
| MS      | <i>Lycium ferocissimum</i> | Boxthorn     | high     | high   |

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Robinvale Plains bioregion

### EVC 97: Semi-arid Woodland

#### Description:

Non-eucalypt woodland or open forest to 12 m tall, of low rainfall areas. Occurs in a range of somewhat elevated positions not subject to flooding or inundation. The surface soils are typically light textured loamy sands or sandy loams.

#### Large trees:

| Species                     | DBH(cm) | #/ha  |
|-----------------------------|---------|-------|
| <i>Casuarina</i> spp.       | 40 cm   | 20/ha |
| <i>Allocasuarina</i> spp.   | 40 cm   |       |
| <i>Callitris</i> spp.       | 40 cm   |       |
| <i>Myoporum platycarpum</i> | 35 cm   |       |

#### Tree Canopy Cover:

| % cover | Character Species                                 | Common Name          |
|---------|---|----------------------|
| 20%     | <i>Casuarina pauper</i>                           | Belah                |
|         | <i>Allocasuarina luehmannii</i>                   | Buloke               |
|         | <i>Callitris gracilis</i> ssp. <i>murrayensis</i> | Slender Cypress-pine |
|         | <i>Myoporum platycarpum</i>                       | Sugarwood            |

#### Understorey:

| Life form                           | #Spp | %Cover | LF code |
|-------------------------------------|------|--------|---------|
| Immature Canopy Tree                |      | 5%     | IT      |
| Medium Shrub                        | 5    | 15%    | MS      |
| Small Shrub                         | 5    | 20%    | SS      |
| Large Herb*                         | 2    | 5%     | LH      |
| Medium Herb*                        | 7    | 5%     | MH      |
| Small or Prostrate Herb*            | 2    | 5%     | SH      |
| Medium to Small Tufted Graminoid    | 2    | 10%    | MTG     |
| Medium to Tiny Non-tufted Graminoid | 1    | 1%     | MNG     |
| Bryophytes/Lichens                  | na   | 10%    | BL      |
| Soil Crust                          | na   | 20%    | S/C     |

\* Largely seasonal life form

**Total understorey projective foliage cover 75%**

| LF Code | Species typical of at least part of EVC range     | Common Name                 |
|---------|---|-----------------------------|
| MS      | <i>Alectryon oleifolius</i> ssp. <i>canescens</i> | Cattle Bush                 |
| MS      | <i>Acacia oswaldii</i>                            | Umbrella Wattle             |
| MS      | <i>Hakea tephrosperma</i>                         | Hooked Needlewood           |
| MS      | <i>Hakea leucoptera</i> ssp. <i>leucoptera</i>    | Silver Needlewood           |
| SS      | <i>Enchylaena tomentosa</i> var. <i>tomentosa</i> | Ruby Saltbush               |
| SS      | <i>Sclerolaena diacantha</i>                      | Grey Copperburr             |
| SS      | <i>Olearia pimeleoides</i>                        | Pimelea Daisy-bush          |
| SS      | <i>Rhagodia spinescens</i>                        | Hedge Saltbush              |
| MH      | <i>Einadia nutans</i> ssp. <i>nutans</i>          | Nodding Saltbush            |
| MH      | <i>Vittadinia dissecta</i> s.l.                   | Dissected New Holland Daisy |
| MH      | <i>Calandrinia eremaea</i>                        | Small Purslane              |
| MH      | <i>Crassula colorata</i>                          | Dense Crassula              |
| SH      | <i>Actinobole uliginosum</i>                      | Flannel Cudweed             |
| MTG     | <i>Austrodanthonia caespitosa</i>                 | Common Wallaby-grass        |
| MTG     | <i>Austrostipa</i> spp.                           | Spear-grass                 |
| MNG     | <i>Austrostipa elegantissima</i>                  | Feather Spear-grass         |

# EVC 97: Semi-arid Woodland – Robinvale Plains bioregion

**Recruitment:**

Continuous

**Organic Litter:**

20% cover

**Logs:**

20m/0.1 ha.

**Weediness:**

| LF Code | Typical Weed Species                               | Common Name          | Invasive | Impact |
|---------|--|----------------------|----------|--------|
| LH      | <i>Brassica tournefortii</i>                       | Mediterranean Turnip | high     | high   |
| LH      | <i>Reichardia tingitana</i>                        | Reichardia           | high     | low    |
| MH      | <i>Silene</i> spp.                                 | Catchfly             | high     | high   |
| SH      | <i>Medicago minima</i>                             | Little Medic         | high     | high   |
| MTG     | <i>Schismus barbatus</i>                           | Arabian Grass        | high     | high   |
| MTG     | <i>Pentaschistis airoides</i> ssp. <i>airoides</i> | False Hair-grass     | high     | high   |
| MNG     | <i>Bromus rubens</i>                               | Red Brome            | high     | high   |
| MNG     | <i>Vulpia myuros</i>                               | Rat's-tail Fescue    | high     | high   |
| MNG     | <i>Critesion murinum</i> subsp. <i>glaucum</i>     | Blue Barley-grass    | high     | high   |
| SC      | <i>Asparagus asparagoides</i>                      | Bridal Creeper       | high     | high   |

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Robinvale Plains bioregion

### EVC 98: Semi-arid Chenopod Woodland

#### Description:

Sparse, low non-eucalypt woodland to 12 m tall of the arid zone with a tall open chenopod shrub-dominated understorey or a treeless, tall chenopod shrubland to 3 m tall. This EVC may occur as either a woodland (typically with a very open structure but tree cover >10%) or a shrubland (tree cover <10%) with trees as an occasional emergent.

+ woodland only components (ignore when assessing shrubland areas and standardise final score as appropriate)

#### Large trees<sup>+</sup>:

| Species                         | DBH(cm) | #/ha  |
|---------------------------------|---------|-------|
| <i>Casuarina pauper</i>         | 40 cm   | 15/ha |
| <i>Allocasuarina luehmannii</i> | 40 cm   |       |
| <i>Callitris gracilis</i>       | 40 cm   |       |
| <i>Myoporum platycarpum</i>     | 35 cm   |       |

#### Tree Canopy Cover<sup>+</sup>:

| % cover | Character Species                                 | Common Name         |
|---------|---|---------------------|
| 15%     | <i>Casuarina pauper</i>                           | Belah               |
|         | <i>Allocasuarina luehmannii</i>                   | Buloke              |
|         | <i>Myoporum platycarpum</i>                       | Sugarwood           |
|         | <i>Callitris gracilis</i> ssp. <i>murrayensis</i> | Slender Native Pine |

#### Understorey:

| Life form                                    | #Spp | %Cover | LF code |
|--|------|--------|---------|
| Immature Canopy Tree <sup>+</sup>            |      | 5%     | IT      |
| Understorey Tree or Large Shrub <sup>+</sup> | 3    | 10%    | T       |
| Medium Shrub                                 | 2    | 40%    | MS      |
| Small Shrub                                  | 4    | 15%    | SS      |
| Prostrate Shrub                              | 1    | 1%     | PS      |
| Large Herb*                                  | 2    | 5%     | LH      |
| Medium Herb*                                 | 6    | 15%    | MH      |
| Small or Prostrate Herb*                     | 8    | 15%    | SH      |
| Large Non-tufted Graminoid                   | 1    | 5%     | LNG     |
| Medium to Small Tufted Graminoid             | 2    | 5%     | MTG     |
| Medium to Tiny Non-tufted Graminoid          | 1    | 1%     | MNG     |
| Bryophytes/Lichens                           | na   | 10%    | BL      |
| Soil Crust                                   | na   | 30%    | S/C     |

\* Largely seasonal life form

# EVC 98: Semi-arid Chenopod Woodland - Robinvale Plains bioregion

| LF Code        | Species typical of at least part of EVC range       | Common Name          |
|----------------|---|----------------------|
| T <sup>+</sup> | <i>Alectryon oleifolius</i> ssp. <i>canescens</i>   | Cattlebush           |
| T <sup>+</sup> | <i>Acacia melvillei</i>                             | Myall                |
| T <sup>+</sup> | <i>Hakea leucoptera</i> ssp. <i>leucoptera</i>      | Silver Needlewood    |
| MS             | <i>Maireana pyramidata</i>                          | Shrubby Bluebush     |
| MS             | <i>Maireana sedifolia</i>                           | Pearl Bluebush       |
| MS             | <i>Atriplex nummularia</i>                          | Old Man Saltbush     |
| MS             | <i>Nitraria billardiarei</i>                        | Nitre-bush           |
| SS             | <i>Sclerolaena obliquicuspis</i>                    | Limestone Copperburr |
| SS             | <i>Sclerolaena tricuspis</i>                        | Three-spined Bassia  |
| SS             | <i>Sclerolaena divaricata</i>                       | Tangled Bassia       |
| SS             | <i>Enchylaena tomentosa</i> var. <i>tomentosa</i>   | Ruby Saltbush        |
| PS             | <i>Sclerochlamys brachyptera</i>                    | Short-wing Saltbush  |
| LH             | <i>Polycalymma stuartii</i>                         | Poached-egg Daisy    |
| MH             | <i>Brachyscome lineariloba</i>                      | Hard-head Daisy      |
| MH             | <i>Osteocarpum acropterum</i> var. <i>deminutum</i> | Babbagia             |
| MH             | <i>Zygophyllum crenatum</i>                         | Hard-head Daisy      |
| MH             | <i>Zygophyllum ammophilum</i>                       | Sand Twin-leaf       |
| SH             | <i>Calotis hispidula</i>                            | Hairy Burr-daisy     |
| SH             | <i>Plagiobothrys elachanthus</i>                    | Hairy Forget-me-not  |
| SH             | <i>Isoetopsis graminifolia</i>                      | Grass Cushion        |
| SH             | <i>Pogonolepis muelleriana</i>                      | Stiff Cup-flower     |

## Recruitment:

Continuous

## Organic Litter:

5% in shrubland  
15% in woodland.

## Logs<sup>+</sup>:

5m/0.1ha

## Weediness:

| LF Code | Typical Weed Species                         | Common Name          | Invasive | Impact |
|---------|--|----------------------|----------|--------|
| LH      | <i>Sonchus oleraceus</i>                     | Common Sow-thistle   | high     | low    |
| LH      | <i>Brassica tournefortii</i>                 | Mediterranean Turnip | high     | high   |
| LH      | <i>Salvia verbenaca</i>                      | Wild Sage            | high     | high   |
| LH      | <i>Sisymbrium erysimoides</i>                | Smooth Mustard       | high     | high   |
| MH      | <i>Reichardia tingitana</i>                  | False Sow-thistle    | low      | low    |
| MH      | <i>Limonium</i> spp.                         | Sea-lavender         | high     | high   |
| MH      | <i>Silene apetala</i> var. <i>apetala</i>    | Sand Catchfly        | high     | high   |
| MH      | <i>Erodium cicutarium</i>                    | Common Heron's-bill  | high     | low    |
| MH      | <i>Carrichtera annua</i>                     | Ward's Weed          | high     | high   |
| SH      | <i>Medicago minima</i>                       | Little Medic         | high     | high   |
| MTG     | <i>Schismus barbatus</i>                     | Arabian Grass        | high     | high   |
| MTG     | <i>Critesion murinum</i> ssp. <i>glaucum</i> | Blue Barley-grass    | high     | high   |
| MNG     | <i>Bromus rubens</i>                         | Red Brome            | high     | high   |
| MNG     | <i>Vulpia</i> spp.                           |                      | high     | high   |

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## EVC/Bioregion Benchmark for Vegetation Quality Assessment

### Robinvale Plain Bioregion

#### EVC 98\_61: Non-treed Semi-arid Chenopod Woodland

##### Description:

Sparse, low non-eucalypt woodland to 12 m tall of the arid zone with a tall open chenopod shrub-dominated understorey or a treeless, tall chenopod shrubland to 3 m tall. This EVC may occur as either a woodland (typically with a very open structure but tree cover >10%) or a shrubland (tree cover <10%) with trees as an occasional emergent.

##### Understorey:

| Lifeform                            | #Spp | %Cover | LF Code |
|-------------------------------------|------|--------|---------|
| Medium Shrub                        | 2    | 40%    | MS      |
| Small Shrub                         | 4    | 15%    | SS      |
| Prostrate Shrub                     | 1    | 1%     | PS      |
| Large Herb*                         | 2    | 5%     | LH      |
| Medium Herb*                        | 6    | 15%    | MH      |
| Small or Prostrate Herb*            | 8    | 15%    | SH      |
| Large Non-Tufted Graminoid          | 1    | 5%     | LNG     |
| Medium to Small Tufted Graminoid    | 2    | 5%     | MTG     |
| Medium to Tiny Non-Tufted Graminoid | 1    | 1%     | MNG     |
| Bryophytes/Lichens                  |      | 10%    | BL      |
| Soil Crust                          |      | 30%    | S/C     |

\*Largely seasonal lifeform

| LF Code | Species typical of at least part of EVC range       | Common Name          |
|---------|---|----------------------|
| MS      | <i>Atriplex nummularia</i>                          | Old-man Saltbush     |
| MS      | <i>Maireana pyramidata</i>                          | Sago Bush            |
| MS      | r <i>Maireana sedifolia</i>                         | Pearl Bluebush       |
| MS      | <i>Nitraria billardiarei</i>                        | Nitre-bush           |
| SS      | <i>Enchylaena tomentosa</i> var. <i>tomentosa</i>   | Ruby Saltbush        |
| SS      | k <i>Sclerolaena divaricata</i>                     | Tangled Copperburr   |
| SS      | <i>Sclerolaena obliquicuspis</i>                    | Limestone Copperburr |
| SS      | <i>Sclerolaena tricuspis</i>                        | Streaked Copperburr  |
| PS      | <i>Sclerochlamys brachyptera</i>                    | Short-wing Saltbush  |
| LH      | <i>Polycalymma stuartii</i>                         | Poached-eggs Daisy   |
| MH      | <i>Brachyscome lineariloba</i>                      | Hard-head Daisy      |
| MH      | <i>Osteocarpum acropterum</i> var. <i>deminutum</i> | Babbagia             |
| MH      | <i>Zygophyllum ammophilum</i>                       | Sand Twin-leaf       |
| MH      | <i>Zygophyllum crenatum</i>                         | Notched Twin-leaf    |
| SH      | <i>Calotis hispidula</i>                            | Hairy Burr-daisy     |
| SH      | <i>Isoetopsis graminifolia</i>                      | Grass Cushion        |
| SH      | <i>Plagiobothrys elachanthus</i>                    | Hairy Forget-me-not  |
| SH      | <i>Pogonolepis muelleriana</i>                      | Stiff Cup-flower     |
| LNG     | Various spp.  |                      |
| MTG     | Various spp.  |                      |
| MNG     | Various spp.  |                      |

# EVC 98\_61: Non-treed Semi-arid Chenopod Woodland

## Recruitment:

Continuous.

## Organic Litter:

5 % cover

## Weediness:

| LF Code | Typical Weed Species               | Common Name           | Invasive | Impact |
|---------|------------------------------------|-----------------------|----------|--------|
| MTG     | <i>Hordeum glaucum</i>             | Northern Barley-grass | high     | high   |
| MNG     | <i>Bromus rubens</i>               | Red Brome             | high     | high   |
| LH      | <i>Salvia verbenaca</i>            | Wild Sage             | high     | high   |
| MH      | <i>Carrichtera annua</i>           | Ward's Weed           | high     | high   |
| MH      | <i>Limonium spp.</i>               | Sea Lavender          | high     | high   |
| MNG     | <i>Vulpia spp.</i>                 | Fescue                | high     | high   |
| LH      | <i>Brassica tournefortii</i>       | Mediterranean Turnip  | high     | high   |
| MTG     | <i>Schismus barbatus</i>           | Arabian Grass         | high     | high   |
| LH      | <i>Sisymbrium erysimoides</i>      | Smooth Mustard        | high     | high   |
| LH      | <i>Sonchus oleraceus</i>           | Common Sow-thistle    | high     | low    |
| MH      | <i>Erodium cicutarium</i>          | Common Heron's-bill   | high     | low    |
| MH      | <i>Reichardia tingitana</i>        | False Sow-thistle     | low      | low    |
| MH      | <i>Silene apetala var. apetala</i> | Mallee Catchfly       | high     | high   |
| SH      | <i>Medicago minima</i>             | Little Medic          | high     | high   |

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Robinvale Plains bioregion

### EVC 102: Low Chenopod Shrubland

#### Description:

Chenopod shrubland to 1.5 m tall occupying broad, flat alluvial terraces occur along the Murray River, west from Mildura to the border. The ground layer is characterized by succulents and a suite of annual herbs.

#### Life Forms:

| Life form                           | #Spp | %Cover | LF code |
|-------------------------------------|------|--------|---------|
| Medium Shrub                        | 1    | 5%     | MS      |
| Small Shrub                         | 7    | 20%    | SS      |
| Prostrate Shrub                     | 1    | 5%     | PS      |
| Large Herb                          | 2    | 1%     | LH      |
| Medium Herb                         | 10   | 25%    | MH      |
| Small or Prostrate Herb             | 4    | 15%    | SH      |
| Medium to Small Tufted Graminoid    | 2    | 5%     | MTG     |
| Medium to Tiny Non-tufted Graminoid | 1    | 5%     | MNG     |
| Bryophytes/Lichens                  | na   | 10%    | BL      |
| Soil Crust                          | na   | 10%    | S/C     |

| LF Code | Species typical of at least part of EVC range        | Common Name         |
|---------|--|---------------------|
| MS      | <i>Nitraria billardierei</i>                         | Nitre-bush          |
| SS      | <i>Sclerolaena tricuspidata</i>                      | Streaked Copperburr |
| SS      | <i>Pachycornia triandra</i>                          | Desert Glasswort    |
| SS      | <i>Atriplex lindleyi</i>                             | Flat-top Saltbush   |
| SS      | <i>Atriplex vesicaria</i>                            | Bladder Saltbush    |
| PS      | <i>Sclerochlamys brachyptera</i>                     | Short-wing Saltbush |
| LH      | <i>Salsola tragus</i>                                | Prickly Saltwort    |
| MH      | <i>Crassula colorata</i>                             | Dense Crassula      |
| MH      | <i>Brachyscome lineariloba</i>                       | Hard-head Daisy     |
| MH      | <i>Plantago cunninghamii</i>                         | Clay Plantain       |
| MH      | <i>Senecio glossanthus</i>                           | Slender Groundsel   |
| SH      | <i>Disphyma crassifolium</i> ssp. <i>clavellatum</i> | Rounded Noon-flower |
| SH      | <i>Calotis hispidula</i>                             | Hairy Burr-daisy    |
| SH      | <i>Isoetopsis graminifolia</i>                       | Grass Cushion       |
| SH      | <i>Pogonolepis muelleriana</i>                       | Stiff Cup-flower    |

#### Recruitment:

Continuous

#### Organic Litter:

20% cover

#### Weediness:

| LF Code | Typical Weed Species                         | Common Name          | Invasive | Impact |
|---------|--|----------------------|----------|--------|
| LH      | <i>Sonchus oleraceus</i>                     | Common Sow-thistle   | high     | low    |
| LH      | <i>Brassica tournefortii</i>                 | Mediterranean Turnip | high     | high   |
| MH      | <i>Spergularia diandra</i>                   | Lesser Sand-spurrey  | high     | low    |
| MH      | <i>Spergularia rubra</i> s.l.                | Red Sand-spurrey     | high     | low    |
| MH      | <i>Reichardia tingitana</i>                  | False Sow-thistle    | high     | low    |
| SH      | <i>Medicago minima</i>                       | Little Medic         | high     | low    |
| MTG     | <i>Vulpia bromoides</i>                      | Squirrel-tail Fescue | high     | low    |
| MTG     | <i>Schismus barbatus</i>                     | Arabian Grass        | high     | low    |
| MTG     | <i>Critesion murinum</i> ssp. <i>glaucum</i> | Blue Barley-grass    | high     | low    |
| MTG     | <i>Lamarckia aurea</i>                       | Golden-top           | high     | high   |
| MNG     | <i>Bromus rubens</i>                         | Red Brome            | high     | low    |

# EVC 102: Low Chenopod Shrubland - Robinvale Plains bioregion

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Robinvale Plains bioregion

### EVC 103: Riverine Chenopod Woodland (*syn.* Black Box Chenopod Woodland)

#### Description:

Eucalypt woodland to 15 m tall with a diverse shrubby and grassy understorey occurring on most elevated riverine terraces. Confined to heavy clay soils on higher level terraces within or on the margins of riverine floodplains (or former floodplains), naturally subject to only extremely infrequent incidental shallow flooding from major events if at all flooded.

#### Large trees:

| Species                        | DBH(cm) | #/ha |
|--------------------------------|---------|------|
| <i>Eucalyptus largiflorens</i> | 40 cm   | 5/ha |

#### Tree Canopy Cover:

| %cover | Character Species              | Common Name  |
|--------|--------------------------------|--------------|
| 10%    | <i>Eucalyptus largiflorens</i> | Black Box    |
|        | <i>Acacia stenophylla</i>      | River Coobah |

#### Understorey:

| Life form                        | #Spp | %Cover | LF code |
|----------------------------------|------|--------|---------|
| Immature Canopy Tree             |      | 5%     | IT      |
| Medium Shrub                     | 3    | 30%    | MS      |
| Small Shrub                      | 5    | 25%    | SS      |
| Prostrate Shrub                  | 1    | 1%     | PS      |
| Medium Herb                      | 5    | 5%     | MH      |
| Small or Prostrate Herb*         | 5    | 10%    | SH      |
| Medium to Small Tufted Graminoid | 2    | 5%     | MTG     |

\* Largely seasonal life form

**Total understorey projective foliage cover 50%**

| LF Code | Species typical of at least part of EVC range        | Common Name         |
|---------|--|---------------------|
| MS      | <i>Atriplex nummularia</i>                           | Old-man Saltbush    |
| MS      | <i>Chenopodium nitrariaceum</i>                      | Nitre Goosefoot     |
| MS      | <i>Eremophila divaricata</i> ssp. <i>divaricata</i>  | Spreading Emu-bush  |
| SS      | <i>Sclerolaena tricuspis</i>                         | Streaked Copperburr |
| SS      | <i>Enchylaena tomentosa</i> var. <i>tomentosa</i>    | Ruby Saltbush       |
| SS      | <i>Atriplex lindleyi</i>                             | Flat-top Saltbush   |
| SS      | <i>Rhagodia spinescens</i>                           | Hedge Saltbush      |
| PS      | <i>Sclerochlamys brachyptera</i>                     | Short-wing Saltbush |
| MH      | <i>Einadia nutans</i> ssp. <i>nutans</i>             | Nodding Saltbush    |
| MH      | <i>Calocephalus sonderi</i>                          | Pale Beauty-heads   |
| MH      | <i>Senecio glossanthus</i>                           | Slender Groundsel   |
| MH      | <i>Brachyscome lineariloba</i>                       | Hard-head Daisy     |
| SH      | <i>Disphyma crassifolium</i> ssp. <i>clavellatum</i> | Rounded Noon-flower |
| SH      | <i>Maireana pentagona</i>                            | Hairy Bluebush      |

#### Recruitment:

Continuous

#### Organic Litter:

10 % cover

#### Logs:

5m/0.1 ha.

# EVC 103: Riverine Chenopod Woodland (*syn.* Black Box Chenopod Woodland) - Robinvale Plains bioregion

## Weediness:

| LF Code | Typical Weed Species                         | Common Name             | Invasive | Impact |
|---------|--|-------------------------|----------|--------|
| T       | <i>Olea europaea</i> subsp. <i>europaea</i>  | Olive                   | low      | high   |
| MS      | <i>Lycium ferocissimum</i>                   | Boxthorn                | low      | high   |
| LH      | <i>Sisymbrium erysimoides</i>                | Smooth Mustard          | high     | high   |
| LH      | <i>Critesion</i> spp.                        | Barley-grass            | high     | low    |
| LH      | <i>Gazania linearis</i>                      | Gazania                 | high     | high   |
| LH      | <i>Opuntia</i> spp.                          | Prickly Pear            | low      | high   |
| LH      | <i>Sisymbrium irio</i>                       | London Mustard          | high     | high   |
| LH      | <i>Psilocalon granulicaule</i>               | Noon-flower             | high     | high   |
| MH      | <i>Limonium sinuatum</i>                     | Notch-leaf Sea-lavender | high     | high   |
| MH      | <i>Limonium lobatum</i>                      | Winged Sea-lavender     | high     | high   |
| MH      | <i>Trifolium arvense</i> var. <i>arvense</i> | Hare's-foot Clover      | high     | low    |
| MH      | <i>Mesembryanthemum nodiflora</i>            | Ice-plant               | high     | high   |
| MH      | <i>Carrichtera annua</i>                     | Ward's Weed             | high     | high   |
| MH      | <i>Marrubium vulgare</i>                     | Horehound               | high     | high   |
| MH      | <i>Carpobrotus aequilaterus</i>              | Angled Pigface          | low      | high   |
| MH      | <i>Silene apetala</i> var. <i>apetala</i>    | Sand Catchfly           | high     | low    |
| MH      | <i>Medicago</i> spp.                         | Medic                   | high     | low    |
| MH      | <i>Oxalis pes-caprae</i>                     | Soursob                 | high     | high   |
| MH      | <i>Silene gallica</i>                        | French Catchfly         | high     | low    |
| MH      | <i>Silene nocturna</i>                       | Mediterranean Catchfly  | high     | low    |
| SH      | <i>Mesembryanthemum crystallinum</i>         | Common Ice-plant        | high     | high   |
| MTG     | <i>Vulpia bromoides</i>                      | Squirrel-tail Fescue    | high     | high   |
| MTG     | <i>Lolium rigidum</i>                        | Wimmera Rye-grass       | high     | low    |
| MTG     | <i>Asphodelus fistulosus</i>                 | Onion Weed              | high     | high   |
| MNG     | <i>Bromus rubens</i>                         | Red Brome               | high     | high   |
| MNG     | <i>Vulpia myuros</i>                         | Rat's-tail Fescue       | high     | low    |
| MNG     | <i>Bromus</i> spp.                           | Brome                   | high     | high   |
| MNG     | <i>Schismus barbatus</i>                     | Arabian Grass           | high     | low    |
| SC      | <i>Asparagus asparagoides</i>                | Bridal Creeper          | high     | high   |

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Robinvale Plains bioregion

### EVC 104: Lignum Swamp

#### Description:

Typically treeless shrubland to 4 m tall, with robust (but sometimes patchy) growth of lignum. Widespread wetland vegetation type in low rainfall areas on heavy soils, subject to infrequent inundation resulting from overbank flows from rivers or local runoff.

#### Life forms:

| Life form                            | #Spp | %Cover | LF code |
|--------------------------------------|------|--------|---------|
| Medium Shrub                         | 1    | 20%    | MS      |
| Large Herb*                          | 4    | 5%     | LH      |
| Medium Herb*                         | 8    | 25%    | MH      |
| Small or Prostrate Herb*             | 2    | 10%    | SH      |
| Large Non-tufted Graminoid           | 1    | 5%     | LNG     |
| Medium to Small Tufted Graminoid     | 2    | 5%     | MTG     |
| Medium to Tiny Non-tufted Graminoid* | 2    | 5%     | MNG     |
| Scrambler or Climber                 | 1    | 1%     | SC      |
| Soil crust*                          | na   | 10%    | S/C     |

\* Largely seasonal life form

**Total understorey projective foliage cover** **75%**

| LF Code | Species typical of at least part of EVC range | Common Name         |
|---------|---|---------------------|
| MS      | <i>Muehlenbeckia florulenta</i>               | Tangled Lignum      |
| MS      | <i>Chenopodium nitrariaceum</i>               | Nitre Goosefoot     |
| SS      | <i>Sclerolaena tricuspis</i>                  | Three-spined Bassia |
| SS      | <i>Sclerolaena muricata</i>                   | Five-spined Bassia  |
| LH      | <i>Rumex</i> spp.                             | Dock                |
| MH      | <i>Marsilea drummondii</i>                    | Common Nardoo       |
| MH      | <i>Goodenia</i> spp.                          | Goodenia            |
| MH      | <i>Ranunculus</i> spp.                        | Buttercup           |
| LNG     | <i>Eragrostis australasica</i>                | Cane Grass          |
| MNG     | <i>Eragrostis infecunda</i>                   | Barren Cane grass   |
| MTG     | <i>Juncus</i> spp.                            | Rush                |
| MNG     | <i>Eleocharis</i> spp.                        | Spike-sedge         |
| SC      | <i>Asperula gemella</i>                       | Twin-leaf Bedstraw  |

#### Recruitment:

Continuous

#### Organic Litter:

5% cover

#### Weediness:

| LF Code | Typical Weed Species   | Common Name | Invasive | Impact |
|---------|------------------------|-------------|----------|--------|
| SH      | <i>Phyla canescens</i> | Lippia      | high     | high   |

# EVC 104: Lignum Swamp – Robinvale Plains bioregion

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Robinvale Plains bioregion

### EVC 106: Grassy Riverine Forest

#### Description:

Occurs on the floodplain of major rivers, in a slightly elevated position where floods are infrequent, on deposited silts and sands, forming fertile alluvial soils. River Red Gum forest to 25 m tall with a groundlayer dominated by tussock-forming graminoids. Occasional tall shrubs present.

#### Large trees:

| Species                | DBH(cm) | #/ha    |
|------------------------|---------|---------|
| <i>Eucalyptus</i> spp. | 90 cm   | 20 / ha |

#### Tree Canopy Cover:

| %cover | Character Species               | Common Name   |
|--------|---------------------------------|---------------|
| 30%    | <i>Eucalyptus camaldulensis</i> | River Red-gum |

#### Understorey:

| Life form                           | #Spp | %Cover | LF code |
|-------------------------------------|------|--------|---------|
| Immature Canopy Tree                |      | 5%     | IT      |
| Understorey Tree or Large Shrub     | 2    | 10%    | T       |
| Large Herb                          | 3    | 5%     | LH      |
| Medium Herb                         | 7    | 10%    | MH      |
| Small or Prostrate Herb             | 1    | 5%     | SH      |
| Medium to Small Tufted Graminoid    | 2    | 15%    | MTG     |
| Medium to Tiny Non-tufted Graminoid | 1    | 1%     | MNG     |
| Bryophytes/Lichens                  | na   | 10%    | BL      |

| LF Code | Species typical of at least part of EVC range | Common Name           |
|---------|---|-----------------------|
| T       | <i>Acacia stenophylla</i>                     | Eumong                |
| MS      | <i>Muehlenbeckia florulenta</i>               | Tangled Lignum        |
| LH      | <i>Wahlenbergia fluminalis</i>                | River Bluebell        |
| MH      | <i>Centipeda cunninghamii</i>                 | Common Sneezeweed     |
| MH      | <i>Haloragis aspera</i>                       | Rough Raspwort        |
| MH      | <i>Oxalis perennans</i>                       | Grassland Wood-sorrel |
| MH      | <i>Persicaria prostrata</i>                   | Creeping Knotweed     |
| SH      | <i>Lobelia concolor</i>                       | Poison Pratia         |
| SH      | <i>Chamaesyce drummondii</i>                  | Flat Spurge           |
| MTG     | <i>Setaria jubiflora</i>                      | Warrego Summer-grass  |
| MNG     | <i>Cynodon dactylon</i>                       | Couch                 |

#### Recruitment:

Continuous

#### Organic Litter:

40 % cover

#### Logs:

30 m/0.1 ha.

# EVC 106: Grassy Riverine Forest - Robinvale Plains bioregion

## Weediness:

| LF Code | Typical Weed Species                            | Common Name                     | Invasive | Impact |
|---------|---|---------------------------------|----------|--------|
| LH      | <i>Cirsium vulgare</i>                          | Spear Thistle                   | high     | low    |
| LH      | <i>Sonchus oleraceus</i>                        | Common Sow-thistle              | high     | low    |
| LH      | <i>Sonchus asper</i> s.l.                       | Rough Sow-thistle               | high     | low    |
| LH      | <i>Lactuca serriola</i>                         | Prickly Lettuce                 | high     | high   |
| LH      | <i>Malva parviflora</i>                         | Small-flower Mallow             | high     | high   |
| LH      | <i>Xanthium strumarium</i> spp. agg.            | Noogoora Burr species aggregate | high     | high   |
| LH      | <i>Xanthium spinosum</i>                        | Bathurst Burr                   | high     | high   |
| LH      | <i>Chondrilla juncea</i>                        | Skeleton Weed                   | high     | high   |
| MH      | <i>Hypochoeris glabra</i>                       | Smooth Cat's-ear                | high     | low    |
| MH      | <i>Silene apetala</i> var. <i>apetala</i>       | Mallee Catchfly                 | high     | low    |
| MH      | <i>Verbena supina</i>                           | Trailing Verbena                | high     | high   |
| MH      | <i>Reichardia tingitana</i>                     | False Sow-thistle               | high     | low    |
| SH      | <i>Medicago minima</i>                          | Little Medic                    | high     | low    |
| SH      | <i>Medicago polymorpha</i>                      | Burr Medic                      | high     | low    |
| SH      | <i>Polygonum aviculare</i> s.l.                 | Prostrate Knotweed              | high     | high   |
| MTG     | <i>Pentstemon airoides</i> ssp. <i>airoides</i> | False Hair-grass                | high     | low    |
| MTG     | <i>Lolium rigidum</i>                           | Wimmera Rye-grass               | high     | low    |
| MTG     | <i>Critesion marinum</i>                        | Sea Barley-grass                | high     | low    |
| MNG     | <i>Vulpia myuros</i>                            | Rat's-tail Fescue               | high     | low    |

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Robinvale Plains bioregion

### EVC 107: Lake Bed Herbland

#### Description:

Herbland or shrubland to 0.5 m tall dominated by species adapted to drying mud within lake beds. Some evade periods of prolonged inundation as seed, others as dormant tuber-like rootstocks. Occupies drying deep-cracking mud of lakes on floodplains. Floods are intermittent but water may be retained for several seasons leading to active growth at the 'drying mud stage'.

#### Life forms:

| Life form                        | #Spp | %Cover | LF code |
|----------------------------------|------|--------|---------|
| Medium Shrub                     | 2    | 5%     | MS      |
| Small Shrub                      | 2    | 5%     | SS      |
| Medium Herb*                     | 3    | 25%    | MH      |
| Small or Prostrate Herb*         | 3    | 20%    | SH      |
| Medium to Small Tufted Graminoid | 2    | 5%     | MTG     |

\* Largely seasonal life form

**Total understorey projective foliage cover** **60%**

| LF Code | Species typical of at least part of EVC range    | Common Name        |
|---------|--|--------------------|
| MS      | <i>Malva australiana</i> s.l.                    | Southern Hollyhock |
| MS      | <i>Solanum simile</i>                            | Oondoroo           |
| SS      | <i>Glycyrrhiza acanthocarpa</i>                  | Southern Liquorice |
| SS      | <i>Muehlenbeckia horrida</i> ssp. <i>horrida</i> | Spiny Lignum       |
| MH      | <i>Chenopodium pumilio</i>                       | Clammy Goosefoot   |
| MH      | <i>Chenopodium glaucum</i>                       | Glaucous Goosefoot |
| SH      | <i>Glossostigma elatinooides</i>                 | Small Mud-mat      |
| SH      | <i>Glinus lotoides</i>                           | Hairy Carpet-weed  |
| SH      | <i>Mukia micrantha</i>                           | Mallee Cucumber    |

#### Recruitment:

Episodic/Flood. Desirable period between disturbances is 10 years.

#### Organic Litter:

5% cover

#### Weediness:

There are no consistent weeds in this EVC.

# EVC 107: Lake Bed Herbland - Robinvale Plains bioregion

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Robinavle Plains bioregion

### EVC 132: Plains Grassland

#### Description:

Treeless vegetation dominated by largely grass and herb life forms. Shrubs and trees may be also occasionally present.

#### Life forms:

| Life form                            | #Spp | %Cover | LF code |
|--------------------------------------|------|--------|---------|
| Small Shrub                          | 2    | 5%     | SS      |
| Large Herb                           | 3    | 5%     | LH      |
| Medium Herb*                         | 10   | 20%    | MH      |
| Small or Prostrate Herb*             | 3    | 5%     | SH      |
| Large Tufted Graminoid               | 1    | 5%     | LTG     |
| Large Non-tufted Graminoid           | 1    | 5%     | LNG     |
| Medium to Small Tufted Graminoid     | 10   | 30%    | MTG     |
| Medium to Tiny Non-tufted Graminoid* | 2    | 5%     | MNG     |
| Bryophytes/Lichens                   | na   | 10%    | BL      |
| Soil Crust                           | na   | 20%    | S/C     |

\* Largely seasonal life form

| LF Code | Species typical of at least part of EVC range | Common Name        |
|---------|---|--------------------|
| MS      | <i>Acacia oswaldii</i>                        | Umbrella Wattle    |
| SS      | <i>Sclerolaena diacantha</i>                  | Grey Copperburr    |
| SS      | <i>Maireana decalvans</i>                     | Black Cotton-bush  |
| SS      | <i>Pimelea curviflora s.s.</i>                | Curved Rice-flower |
| LH      | <i>Ptilotus exaltatus</i>                     | Mulla Mulla        |
| LH      | <i>Eryngium ovinum</i>                        | Blue Devil         |
| LH      | <i>Calocephalus citreus</i>                   | Lemon Beauty-heads |
| MH      | <i>Calotis scabiosifolia</i>                  | Rough Burr-daisy   |
| MH      | <i>Goodenia pinnatifida</i>                   | Cut-leaf Goodenia  |
| MH      | <i>Sida corrugata</i>                         | Variable Sida      |
| SH      | <i>Maireana pentagona</i>                     | Hairy Bluebush     |
| SH      | <i>Chamaesyce drummondii</i>                  | Flat Spurge        |
| SH      | <i>Pogonolepis muelleriana</i>                | Stiff Cup-flower   |
| LTG     | <i>Austrostipa aristiglumis</i>               | Plump Spear-grass  |
| MTG     | <i>Austrostipa scabra</i>                     | Rough Spear-grass  |
| MTG     | <i>Austrostipa nodosa</i>                     | Knotty Spear-grass |
| MTG     | <i>Whalleya proluta</i>                       | Rigid Panic        |
| SC      | <i>Convolvulus erubescens</i> spp. agg.       | Pink Bindweed      |

#### Recruitment:

Episodic/Fire or Grazing. Desirable period between disturbances is 5 years.

#### Organic Litter:

10% cover

# EVC 132: Plains Grassland – Robinvale Plains bioregion

## Weediness:

| LF Code | Typical Weed Species                                     | Common Name                | Invasive | Impact |
|---------|--|----------------------------|----------|--------|
| MS      | <i>Lycium ferocissimum</i>                               | Boxthorn                   | high     | high   |
| LH      | <i>Helminthotheca echioides</i>                          | Ox-tongue                  | high     | low    |
| LH      | <i>Lepidium africanum</i>                                | Common Peppergrass         | high     | low    |
| LH      | <i>Salvia verbenaca</i>                                  | Wild Sage                  | high     | high   |
| LH      | <i>Echium plantagineum</i>                               | Patterson's Curse          | high     | high   |
| LH      | <i>Sisymbrium irio</i>                                   | London Rocket              | high     | high   |
| LH      | <i>Marrubium vulgare</i>                                 | Horehound                  | high     | high   |
| LNG     | <i>Avena fatua</i>                                       | Wild Oat                   | high     | high   |
| MH      | <i>Limonium sinuatum</i>                                 | Wild Oat                   | high     | high   |
| MH      | <i>Arctotheca calendula</i>                              | Cape Weed                  | high     | high   |
| MH      | <i>Hypochoeris glabra</i>                                | Smooth Cat's-ear           | high     | low    |
| MH      | <i>Hypochoeris radicata</i>                              | Cat's Ear                  | high     | low    |
| MH      | <i>Oxalis pes-caprae</i>                                 | Soursob                    | high     | high   |
| MH      | <i>Plantago coronopus</i>                                | Buck's-horn Plantain       | high     | high   |
| MH      | <i>Spergularia rubra</i> s.l.                            | Red Sand-spurrey           | high     | low    |
| MH      | <i>Trifolium angustifolium</i> var. <i>angustifolium</i> | Narrow-leaf Clover         | high     | high   |
| MH      | <i>Trifolium arvense</i> var. <i>arvense</i>             | Hare's-foot Clover         | high     | high   |
| MH      | <i>Trifolium campestre</i> var. <i>campestre</i>         | Hop Clover                 | high     | high   |
| MH      | <i>Trifolium striatum</i>                                | Knotted Clover             | high     | low    |
| MH      | <i>Trifolium subterraneum</i>                            | Subterranean Clover        | high     | low    |
| MH      | <i>Hedypnois cretica</i>                                 | Cretan Hedypnois           | high     | high   |
| MNG     | <i>Aira cupaniana</i>                                    | Quicksilver Grass          | high     | low    |
| MNG     | <i>Avena barbata</i>                                     | Bearded Oat                | high     | high   |
| MNG     | <i>Brachypodium distachyon</i>                           | False Brome                | high     | high   |
| MNG     | <i>Juncus capitatus</i>                                  | Capitate Rush              | high     | high   |
| MNG     | <i>Vulpia muralis</i>                                    | Wall Fescue                | high     | high   |
| MNG     | <i>Vulpia myuros</i>                                     | Rat's-tail Fescue          | high     | high   |
| MTG     | <i>Bromus diandrus</i>                                   | Great Brome                | high     | high   |
| MTG     | <i>Critesion hystrix</i>                                 | Mediterranean Barley-grass | high     | high   |
| MTG     | <i>Critesion murinum</i>                                 | Barley-grass               | high     | high   |
| MTG     | <i>Lolium rigidum</i>                                    | Wimmera Rye-grass          | high     | high   |
| MTG     | <i>Pentaschistis airoides</i> ssp. <i>airoides</i>       | False Hair-grass           | high     | low    |
| MTG     | <i>Poa bulbosa</i>                                       | Bulbous Meadow-grass       | high     | high   |
| MTG     | <i>Romulea minutiflora</i>                               | Small-flower Onion-grass   | high     | high   |
| MTG     | <i>Romulea rosea</i>                                     | Onion Grass                | high     | high   |
| MTG     | <i>Vulpia bromoides</i>                                  | Squirrel-tail Fescue       | high     | high   |
| SH      | <i>Medicago minima</i>                                   | Little Medic               | high     | high   |
| SH      | <i>Medicago polymorpha</i>                               | Burr Medic                 | high     | high   |
| SH      | <i>Trifolium glomeratum</i>                              | Cluster Clover             | high     | low    |

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Robinvale Plains bioregion

### EVC 158: Chenopod Mallee

#### Description:

Open to very open mallee woodland to 12 m tall (almost invariably dominated by *Eucalyptus gracilis*) supported by thin Woorinen deposits typically overlying gypsiferous and sodic clays. Characterised by the dominance of saltbushes and semi-succulent understorey shrubs.

#### Large trees:

| Species                | DBH(cm) | #/ha  |
|------------------------|---------|-------|
| <i>Eucalyptus</i> spp. | 20 cm   | 20/ha |

#### Tree Canopy Cover:

| % cover | Character Species                           | Common Name   |
|---------|---|---------------|
| 20%     | <i>Eucalyptus gracilis</i>                  | Yorrell       |
|         | <i>Eucalyptus oleosa</i> ssp. <i>oleosa</i> | Oil Mallee    |
|         | <i>Eucalyptus dumosa</i>                    | Dumosa Mallee |

#### Understorey:

| Life form   | #Spp | %Cover     | LF code |
|---|------|------------|---------|
| Immature Canopy Tree                              |      | 5%         | IT      |
| Medium Shrub                                      | 1    | 5%         | MS      |
| Small Shrub                                       | 8    | 40%        | SS      |
| Medium Herb                                       | 3    | 5%         | MH      |
| Small or Prostrate Herb                           | 2    | 10%        | SH      |
| Bryophytes/Lichens                                | na   | 10%        | BL      |
| Soil Crust  | na   | 15%        | S/C     |
| <b>Total understorey projective foliage cover</b> |      | <b>65%</b> |         |

| LF Code | Species typical of at least part of EVC range          | Common Name           |
|---------|--|-----------------------|
| MS      | <i>Maireana pyramidata</i>                             | Black Bluebush        |
| SS      | <i>Atriplex lindleyi</i>                               | Baldoo                |
| SS      | <i>Atriplex vesicaria</i> ssp. <i>variabilis</i>       | Bladder Salt-bush     |
| SS      | <i>Zygophyllum aurantiacum</i> ssp. <i>aurantiacum</i> | Shrubby Twin-leaf     |
| SS      | <i>Nitraria billardiarei</i>                           | Nitre-bush            |
| MH      | <i>Eriochiton sclerolaenoides</i>                      | Woolly-fruit Bluebush |
| MH      | <i>Zygophyllum apiculatum</i>                          | Pointed Twin-leaf     |
| MH      | <i>Zygophyllum crenatum</i>                            | Notched Twin-leaf     |
| SH      | <i>Calandrinia eremaea</i>                             | Small Purslane        |
| SH      | <i>Disphyma crassifolium</i> ssp. <i>clavellatum</i>   | Rounded Noon-flower   |

#### Recruitment:

Continuous (excluding overstorey)

#### Organic Litter:

10 % cover

#### Logs:

20m/0.1 ha. (note: large log class does not apply)

# EVC 158: Chenopod Mallee - Robinvale Plains bioregion

## Weediness:

| LF Code | Typical Weed Species                             | Common Name          | Invasive | Impact |
|---------|--|----------------------|----------|--------|
| LH      | <i>Opuntia</i> spp.                              | Prickly Pear         | low      | high   |
| LH      | <i>Psilocaulon granulicaule</i>                  | Noon-flower          | high     | high   |
| LH      | <i>Gazania linearis</i>                          | Gazania              | high     | high   |
| LH      | <i>Salvia verbenaca</i> var. <i>vernalis</i>     | Wild Sage            | high     | high   |
| LH      | <i>Critesion murinum</i> subsp. <i>leporinum</i> | Wall Barley-grass    | high     | low    |
| LH      | <i>Sisymbrium erysimoides</i>                    | Smooth Mustard       | high     | high   |
| MH      | <i>Carpobrotus aequilaterus</i>                  | Angled Pigface       | low      | high   |
| MH      | <i>Brassica tournefortii</i>                     | Mediterranean Turnip | high     | high   |
| MH      | <i>Mesembryanthemum nodiflora</i>                | Ice-plant            | high     | high   |
| MH      | <i>Carrichtera annua</i>                         | Ward's Weed          | high     | high   |
| MH      | <i>Marrubium vulgare</i>                         | Horehound            | high     | high   |
| SH      | <i>Mesembryanthemum crystallinum</i>             | Common Ice-plant     | high     | high   |
| MTG     | <i>Lolium rigidum</i>                            | Wimmera Rye-grass    | high     | low    |
| MNG     | <i>Schismus barbatus</i>                         | Arabian Grass        | high     | high   |
| MNG     | <i>Bromus</i> spp.                               | Brome                | high     | high   |
| SC      | <i>Asparagus asparagoides</i>                    | Bridal Creeper       | high     | high   |

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Robinvale Plains bioregion

### EVC 295: Riverine Grassy Woodland

#### Description:

Occurs on the floodplain of major rivers, in a slightly elevated position where floods are rare, on deposited silts and sands, forming fertile alluvial soils. River Red Gum woodland to 20 m tall with a groundlayer dominated by graminoids and sometimes lightly shrubby or with chenopod shrubs.

#### Large trees:

| Species                | DBH(cm) | #/ha    |
|------------------------|---------|---------|
| <i>Eucalyptus</i> spp. | 80 cm   | 15 / ha |

#### Tree Canopy Cover:

| %cover | Character Species               | Common Name   |
|--------|---------------------------------|---------------|
| 20%    | <i>Eucalyptus camaldulensis</i> | River Red-gum |
|        | <i>Eucalyptus largiflorens</i>  | Black Box     |

#### Understorey:

| Life form   | #Spp | %Cover     | LF code |
|---|------|------------|---------|
| Immature Canopy Tree                              |      | 5%         | IT      |
| Small Shrub                                       | 4    | 10%        | SS      |
| Large Herb  | 4    | 10         | LH      |
| Medium Herb                                       | 2    | 10%        | MH      |
| Small or Prostrate Herb                           | 5    | 10%        | SH      |
| Large Tufted Graminoid                            | 1    | 1%         | LTG     |
| Medium to Small Tufted Graminoid                  | 5    | 20%        | MTG     |
| Medium to Tiny Non-tufted Graminoid               | 2    | 5%         | MNG     |
| Bryophytes/Lichens                                | na   | 10%        | BL      |
| <b>Total understorey projective foliage cover</b> |      | <b>75%</b> |         |

| LF Code | Species typical of at least part of EVC range     | Common Name           |
|---------|---|-----------------------|
| SS      | <i>Sclerolaena muricata</i> var. <i>villosa</i>   | Grey Roly-poly        |
| SS      | <i>Enchylaena tomentosa</i> var. <i>tomentosa</i> | Ruby Saltbush         |
| SS      | <i>Maireana decalvans</i>                         | Black Cotton-bush     |
| SS      | <i>Chenopodium curvispicatum</i>                  | Cottony Saltbush      |
| LH      | <i>Wahlenbergia fuminalis</i>                     | River Bluebell        |
| LH      | <i>Rumex brownii</i>                              | Slender Dock          |
| LH      | <i>Senecio quadridentatus</i>                     | Cotton Fireweed       |
| MH      | <i>Einadia nutans</i> ssp. <i>nutans</i>          | Nodding Saltbush      |
| MH      | <i>Atriplex semibaccata</i>                       | Berry Saltbush        |
| MH      | <i>Atriplex eardleyae</i>                         | Small Saltbush        |
| MH      | <i>Sida corrugata</i>                             | Variable Sida         |
| MTG     | <i>Austrodanthonia setacea</i>                    | Bristly Wallaby-grass |
| MTG     | <i>Austrostipa scabra</i>                         | Rough Spear-grass     |
| MTG     | <i>Carex inversa</i>                              | Knob Sedge            |
| MTG     | <i>Juncus subsecundus</i>                         | Finger Rush           |

#### Recruitment:

Continuous

#### Organic Litter:

10 % cover

#### Logs:

20 m/0.1 ha.

# EVC 295: Riverine Grassy Woodland – Robinvale Plains bioregion

## Weediness:

| LF Code | Typical Weed Species                           | Common Name       | Invasive | Impact |
|---------|--|-------------------|----------|--------|
| MTG     | <i>Bromus hordaceus</i> ssp. <i>hordaceus</i>  | Soft Brome        | high     | high   |
| MTG     | <i>Critesion murinum</i> ssp. <i>leporinum</i> | Wall Barley-grass | high     | high   |
| MNG     | <i>Bromus rubens</i>                           | Red Brome         | high     | high   |

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Robinvale Plains bioregion

### EVC 803: Plains Woodland

#### Description:

Grassy or sedgy woodland to 15 m tall (typically dominated by *Eucalyptus largiflorens*) with large inter-tussock spaces potentially supporting a range of annual or geophytic herbs adapted to low summer rainfall, with low overall biomass. Mostly occurs on terrain of low relief in areas receiving <600 mm rainfall per annum. Fertile, sometimes seasonally waterlogged, mostly silty, loamy or clay topsoils, with heavy subsoils, derived largely from recent (ie Quaternary) fluvial or alluvial deposits.

#### Large trees:

| Species                         | DBH(cm) | #/ha  |
|---------------------------------|---------|-------|
| <i>Eucalyptus</i> spp.          | 70 cm   | 15/ha |
| <i>Allocasuarina luehmannii</i> | 40 cm   |       |

#### Tree Canopy Cover:

| %cover | Character Species               | Common Name |
|--------|---------------------------------|-------------|
| 15%    | <i>Eucalyptus largiflorens</i>  | Black Box   |
|        | <i>Allocasuarina luehmannii</i> | Buloke      |
|        | <i>Eucalyptus microcarpa</i>    | Grey Box    |

#### Understorey:

| Life form   | #Spp | %Cover     | LF code |
|---|------|------------|---------|
| Medium Shrub                                      | 3    | 10%        | MS      |
| Small shrub                                       | 1    | 5%         | SS      |
| Prostrate shrub                                   | 2    | 10%        | PS      |
| Large Herb  | 3    | 1%         | LH      |
| Medium Herb                                       | 9    | 10%        | MH      |
| Small or Prostrate Herb                           | 5    | 10%        | SH      |
| Large tufted graminoid                            | 1    | 1%         | LTG     |
| Medium to Small Tufted Graminoid                  | 4    | 20%        | MTG     |
| Medium to Tiny Non-tufted Graminoid               | 2    | 1%         | MNG     |
| Scrambler or Climber                              | 1    | 1%         | SC      |
| Bryophytes/Lichens                                | na   | 10%        | BL      |
| Soil Crust  | na   | 10%        | S/C     |
| <b>Total understorey projective foliage cover</b> |      | <b>80%</b> |         |

| LF Code | Species typical of at least part of EVC range      | Common Name           |
|---------|--|-----------------------|
| MS      | <i>Pittosporum angustifolium</i>                   | Weeping Pittosporum   |
| MS      | <i>Acacia pycnantha</i>                            | Golden Wattle         |
| MS      | <i>Acacia acinacea</i> s.l.                        | Gold-dust Wattle      |
| MS      | <i>Acacia oswaldii</i>                             | Umbrella Wattle       |
| SS      | <i>Eutaxia microphylla</i> var. <i>microphylla</i> | Common Eutaxia        |
| SS      | <i>Enchylaena tomentosa</i> var. <i>tomentosa</i>  | Ruby Saltbush         |
| SS      | <i>Sclerolaena diacantha</i>                       | Grey Copperburr       |
| LH      | <i>Ajuga australis</i>                             | Austral Bugle         |
| LH      | <i>Senecio quadridentatus</i>                      | Cotton Fireweed       |
| MH      | <i>Einadia nutans</i> ssp. <i>nutans</i>           | Nodding Saltbush      |
| MH      | <i>Calocephalus citreus</i>                        | Lemon Beauty-heads    |
| MH      | <i>Plantago gaudichaudii</i>                       | Narrow Plantain       |
| MH      | <i>Sida corrugata</i>                              | Variable Sida         |
| SH      | <i>Crassula sieberiana</i>                         | Sieber Crassula       |
| SH      | <i>Actinobole uliginosum</i>                       | Flannel Cudweed       |
| SH      | <i>Oxalis perennans</i>                            | Grassland Wood-sorrel |
| SH      | <i>Calotis hispidula</i>                           | Hairy Burr-daisy      |
| LTG     | <i>Austrostipa aristiglumis</i>                    | Plump Spear-grass     |
| MTG     | <i>Austrodanthonia caespitosa</i>                  | Common Wallaby-grass  |
| MTG     | <i>Dianella revoluta</i> s.l.                      | Common Wallaby-grass  |
| MTG     | <i>Austrostipa scabra</i>                          | Rough Spear-grass     |
| MTG     | <i>Enteropogon acicularis</i>                      | Spider Grass          |

# EVC 803: Plains Woodland – Robinvale Plains bioregion

**Recruitment:**

Continuous

**Organic Litter:**

10% cover

**Logs:**

10m/0.1 ha.

**Weediness:**

| LF Code | Typical Weed Species                                 | Common Name          | Invasive | Impact |
|---------|--|----------------------|----------|--------|
| MS      | <i>Lycium ferocissimum</i>                           | Boxthorn             | high     | high   |
| LH      | <i>Brassica tournefortii</i>                         | Mediterranean Turnip | high     | high   |
| LH      | <i>Sonchus oleraceus</i>                             | Common Sow-thistle   | high     | low    |
| LH      | <i>Opuntia</i> spp                                   | Prickly Pear         | low      | high   |
| MH      | <i>Gazania linearis</i>                              | Gazania              | high     | high   |
| MH      | <i>Spergularia rubra</i> s.l.                        | Red Sand-spurrey     | high     | low    |
| MH      | <i>Silene apetala</i> var. <i>apetala</i>            | Sand Catchfly        | high     | low    |
| MH      | <i>Silene longicaulis</i>                            | Portuguese Catchfly  | high     | low    |
| SH      | <i>Medicago minima</i>                               | Little Medic         | high     | low    |
| MTG     | <i>Schismus barbatus</i>                             | Arabian Grass        | high     | low    |
| MTG     | <i>Poa bulbosa</i>                                   | Bulbous Meadow-grass | high     | high   |
| MTG     | <i>Pentaschistis airoides</i> subsp. <i>airoides</i> | False Hair-grass     | high     | high   |
| MTG     | <i>Romulea rosea</i>                                 | Onion Grass          | high     | high   |
| MNG     | <i>Bromus rubens</i>                                 | Red Brome            | high     | high   |
| MNG     | <i>Vulpia myuros</i>                                 | Rat's-tail Fescue    | high     | low    |
| MNG     | <i>Bromus</i> spp.                                   | Brome                | high     | high   |
| SC      | <i>Asparagus asparagoides</i>                        | Bridal Creeper       | high     | high   |

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Robinvale Plains bioregion

### EVC 806: Alluvial Plains Semi-arid Grassland

#### Description:

Grassland (turf) to herbland to < 0.2 m tall with only incidental shrubs. Flood-promoted flora, potentially including a wide range of opportunistic ephemeral / annual species occupying low-lying areas within at least previously flood-prone (mostly) higher-level terraces, which may be effectively shallow lakes when flooded. Also sometimes on flats along creeks of the further north-west, in habitat akin to that of Floodway Pond Herbland.

#### Life forms:

| Life form   | #Spp | %Cover     | LF code |
|---|------|------------|---------|
| Medium Shrub                                      | 1    | 5%         | MS      |
| Small Shrub                                       | 3    | 5%         | SS      |
| Large Herb  | 3    | 5%         | LH      |
| Medium Herb                                       | 6    | 10%        | MH      |
| Small or Prostrate Herb                           | 3    | 5%         | SH      |
| Medium to Small Tufted Graminoid                  | 3    | 50%        | MTG     |
| Soil Crust  | na   | 10%        | S/C     |
| <b>Total understorey projective foliage cover</b> |      | <b>85%</b> |         |

| LF Code | Species typical of at least part of EVC range    | Common Name         |
|---------|--|---------------------|
| MS      | <i>Muehlenbeckia florulenta</i>                  | Tangled Lignum      |
| MS      | <i>Chenopodium nitrariaceum</i>                  | Nitre-bush          |
| SS      | <i>Sclerolaena tricuspis</i>                     | Three-spined Bassia |
| SS      | <i>Muehlenbeckia horrida</i> ssp. <i>horrida</i> | Spiny Lignum        |
| SS      | <i>Sclerochlamys brachyptera</i>                 | Short-wing Saltbush |
| LH      | <i>Senecio glossanthus</i>                       | Slender Groundsel   |
| LH      | <i>Wahlenbergia fluminalis</i>                   | River Bluebell      |
| MH      | <i>Calocephalus sonderi</i>                      | Pale Beauty-heads   |
| MH      | <i>Spergularia</i> sp. 3                         | Slender Groundsel   |
| MH      | <i>Haloragis aspera</i>                          | Rough Raspwort      |
| MH      | <i>Plantago cunninghamii</i>                     | Clay Plantain       |
| SH      | <i>Isoetopsis graminifolia</i>                   | Grass Cushion       |
| SH      | <i>Myosurus minimus</i> var. <i>australis</i>    | Mouse-tail          |
| MTG     | <i>Sporobolus mitchellii</i>                     | Rat-tail Couch      |

#### Recruitment:

Episodic/Flood. Desirable period between disturbances is 5 years.

#### Organic Litter:

5% cover

#### Weediness:

| LF Code | Typical Weed Species                           | Common Name          | Invasive | Impact |
|---------|--|----------------------|----------|--------|
| LH      | <i>Sonchus oleraceus</i>                       | Common Sow-thistle   | high     | low    |
| LH      | <i>Brassica tournefortii</i>                   | Mediterranean Turnip | high     | high   |
| MH      | <i>Reichardia tingitana</i>                    | False Sow-thistle    | high     | low    |
| MH      | <i>Hypochoeris glabra</i>                      | Smooth Cat's-ear     | high     | low    |
| MH      | <i>Carrichtera annua</i>                       | Ward's Weed          | high     | high   |
| MH      | <i>Spergularia diandra</i>                     | Lesser Sand-spurrey  | high     | low    |
| SH      | <i>Medicago minima</i>                         | Little Medic         | high     | high   |
| SH      | <i>Spergularia rubra</i> s.l.                  | Red Sand-spurrey     | high     | low    |
| MTG     | <i>Critesion murinum</i> subsp. <i>glaucum</i> | Blue Barley-grass    | high     | high   |
| MNG     | <i>Bromus rubens</i>                           | Red Brome            | high     | high   |
| MNG     | <i>Vulpia bromoides</i>                        | Squirrel-tail Fescue | high     | high   |
| SNG     | <i>Schismus barbata</i>                        | Arabian Grass        | high     | high   |
| SNG     | <i>Lamarckia aurea</i>                         | Golden-top           | high     | low    |
| SNG     | <i>Parapholis incurva</i>                      | Coast Barb-grass     | high     | high   |

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Robinvale Plains bioregion

### EVC 808: Lignum Shrubland

#### Description:

Relatively open shrubland of species of divaricate growth form. The ground-layer is typically herbaceous or a turf grassland, rich in annual/ephemeral herbs and small chenopods. Characterised the open and even distribution of relatively small Lignum shrubs. Occupies heavy soil plains along Murray River, low-lying areas on higher-level (but still potentially flood-prone) terraces.

#### Life forms:

| Life form                        | #Spp | %Cover | LF code |
|----------------------------------|------|--------|---------|
| Medium Shrub                     | 2    | 30%    | MS      |
| Small Shrub                      | 3    | 10%    | SS      |
| Large Herb                       | 1    | 1%     | LH      |
| Medium Herb                      | 6    | 10%    | MH      |
| Small or Prostrate Herb*         | 5    | 5%     | SH      |
| Large Non-tufted Graminoid       | 1    | 10%    | LNG     |
| Medium to Small Tufted Graminoid | 2    | 20%    | MTG     |
| Soil Crust                       | na   | 10%    | S/C     |

\* Largely seasonal life form

**Total understorey projective foliage cover** **75%**

| LF Code | Species typical of at least part of EVC range | Common Name            |
|---------|---|------------------------|
| MS      | <i>Muehlenbeckia florulenta</i>               | Tangled Lignum         |
| MS      | <i>Chenopodium nitriaceum</i>                 | Nitre-bush             |
| SS      | <i>Sclerolaena tricuspis</i>                  | Three-spined Bassia    |
| SS      | <i>Sclerochlamys brachyptera</i>              | Short-wing Saltbush    |
| LH      | <i>Senecio glossanthus</i>                    | Slender Groundsel      |
| MH      | <i>Plantago cunninghamii</i>                  | Clay Plantain          |
| MH      | <i>Brachyscome lineariloba</i>                | Hard-headed Daisy      |
| MH      | <i>Brachyscome ciliaris</i>                   | Variable Daisy         |
| MH      | <i>Calocephalus sonderi</i>                   | Pale Beauty-heads      |
| SH      | <i>Isoetopsis graminifolia</i>                | Grass Cushion          |
| SH      | <i>Rhodanthe corymbiflora</i>                 | Paper Sun-ray          |
| SH      | <i>Atriplex leptocarpa</i>                    | Slender-fruit Saltbush |
| SH      | <i>Tetragonia eremaea</i> s.l.                | Annual Spinach         |
| LNG     | <i>Eragrostis australasica</i>                | Cane-grass             |
| MTG     | <i>Sporobolus mitchellii</i>                  | Rat-tail Couch         |
| MTG     | <i>Setaria jubiflora</i>                      | Warrego Summer-grass   |

#### Recruitment:

Continuous

#### Organic Litter:

10% cover

#### Weediness:

There are no consistent weeds in this EVC.

# EVC 808: Lignum Shrubland - Robinvale Plains bioregion

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Robinvale Plains bioregion

### EVC 809: Floodplain Grassy Wetland

#### Description:

Wetland dominated by floating aquatic grasses (which persist to some extent as turf during drier periods), occurring in the most flood-prone riverine areas. Typically treeless, but sometimes with thickets of saplings or scattered more mature specimens of *Eucalyptus camaldulensis*. Occupies temporary shallow lakes in the most flood-prone riverine areas, also occurs as a narrow intermediate band around some floodway ponds.

#### Life forms:

| Life form                           | #Spp | %Cover | LF code |
|-------------------------------------|------|--------|---------|
| Medium Herb                         | 5    | 10%    | MH      |
| Small or Prostrate Herb             | 3    | 5%     | SH      |
| Large Tufted Graminoid              | 1    | 5%     | LTG     |
| Medium to Small Tufted Graminoid    | 3    | 5%     | MTG     |
| Medium to Tiny Non-tufted Graminoid | 4    | 60%    | MNG     |

| LF Code | Species typical of at least part of EVC range       | Common Name               |
|---------|---|---------------------------|
| MH      | <i>Myriophyllum crispatum</i>                       | Upright Milfoil           |
| MH      | <i>Ludwigia peploides</i> ssp. <i>montevidensis</i> | Clove-strip               |
| MH      | <i>Nymphoides crenata</i>                           | Wavy Marshwort            |
| MH      | <i>Centipeda cunninghamii</i>                       | Common Sneezeweed         |
| SH      | <i>Azolla filiculoides</i>                          | Pacific Azolla            |
| SH      | <i>Persicaria prostrata</i>                         | Creeping Knotweed         |
| LTG     | <i>Juncus ingens</i>                                | Giant Rush                |
| MTG     | <i>Lachnagrostis filiformis</i>                     | Common Blown Grass        |
| MTG     | <i>Sporobolus mitchellii</i>                        | Brown-back Wallaby-grass  |
| MNG     | <i>Pseudoraphis spinescens</i>                      | Spiny Mud-grass           |
| MNG     | <i>Amphibromus fluitans</i>                         | River Swamp Wallaby-grass |
| MNG     | <i>Eleocharis acuta</i>                             | Common Spike-sedge        |
| MNG     | <i>Cynodon dactylon</i> var. <i>pulchellus</i>      | Native Couch              |

#### Recruitment:

Episodic/Flood. Desirable period between disturbances is 5 years.

#### Organic Litter:

10% cover

#### Weediness:

There are no consistent weeds in this EVC.

#### Logs:

5 m/0.1 ha.(where trees are overhanging the wetland)

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Robinvale Plains bioregion

### EVC 810: Floodway Pond Herbland

#### Description:

Low herbland to < 0.3 m tall with occasional emergent life forms, usually with a high content of ephemeral species. Floors of ponds associated with floodway systems. Typically heavy deeply cracking clay soils. Characteristically smaller wetlands with a more regular flooding and drying cycle in comparison to sites supporting Lake Bed Herbland.

#### Life forms:

| Life form                           | #Spp | %Cover | LF code |
|-------------------------------------|------|--------|---------|
| Large Herb                          | 1    | 1%     | LH      |
| Medium Herb                         | 5    | 20%    | MH      |
| Small or Prostrate Herb*            | 4    | 15%    | SH      |
| Medium to Small Tufted Graminoid    | 2    | 10%    | MTG     |
| Medium to Tiny Non-tufted Graminoid | 3    | 20%    | MNG     |

\* Largely seasonal life form

**Total understorey projective foliage cover** **65%**

| LF Code | Species typical of at least part of EVC range        | Common Name        |
|---------|--|--------------------|
| MH      | <i>Persicaria prostrata</i>                          | Creeping Knotweed  |
| MH      | <i>Centipeda cunninghamii</i>                        | Common Sneezeweed  |
| MH      | <i>Alternanthera denticulata</i> s.l.                | Lesser Joyweed     |
| SH      | <i>Polygonum plebeium</i>                            | Small Knotweed     |
| SH      | <i>Dysphania glomulifera</i> ssp. <i>glomulifera</i> | Globular Pigweed   |
| SH      | <i>Lemna disperma</i>                                | Common Duckweed    |
| MTG     | <i>Lachnagrostis filiformis</i>                      | Common Blown-grass |
| MNG     | <i>Pseudoraphis spinescens</i>                       | Spiny Mud Grass    |
| MNG     | <i>Carex gaudichaudiana</i>                          | Fen Sedge          |
| MNG     | <i>Eleocharis acuta</i>                              | Common Spike-sedge |

#### Recruitment:

Episodic/Flood. Desirable period between disturbances is 5 years.

#### Organic Litter:

5% cover

#### Logs:

5 m/0.1 ha.(where trees are overhanging the wetland)

#### Weediness:

| LF Code | Typical Weed Species         | Common Name    | Invasive | Impact |
|---------|------------------------------|----------------|----------|--------|
| MH      | <i>Callitriche stagnalis</i> | Water Starwort | high     | high   |

# EVC 810: Floodway Pond Herbland - Robinvale Plains bioregion

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Robinvale Plains bioregion

### EVC 813: Intermittent Swampy Woodland

#### Description:

Eucalypt woodland to 15 m tall with a variously shrubby and rhizomatous sedgy - turf grass understorey, at best development dominated by flood stimulated species in association with flora tolerant of inundation. Flooding is unreliable but extensive when it happens. Occupies low elevation areas on river terraces (mostly at the rear of point-bar deposits or adjacent to major floodways) and lacustrine verges (where sometimes localised to narrow transitional bands). Soils often have a shallow sand layer over heavy and frequently slightly brackish soils.

#### Large trees:

| Species                         | DBH(cm) | #/ha    |
|---------------------------------|---------|---------|
| <i>Eucalyptus camaldulensis</i> | 70 cm   | 15 / ha |
| <i>Eucalyptus largiflorens</i>  | 50 cm   |         |

#### Tree Canopy Cover:

| %cover | Character Species               | Common Name   |
|--------|---------------------------------|---------------|
| 20%    | <i>Eucalyptus camaldulensis</i> | River Red-gum |
|        | <i>Eucalyptus largiflorens</i>  | Black Box     |

#### Understorey:

| Life form   | #Spp | %Cover     | LF code |
|---|------|------------|---------|
| Immature Canopy Tree                              |      | 5%         | IT      |
| Understorey Tree or Large Shrub                   | 1    | 5%         | T       |
| Medium Shrub                                      | 1    | 5%         | MS      |
| Small Shrub                                       | 1    | 5%         | SS      |
| Large Herb  | 2    | 5%         | LH      |
| Medium Herb                                       | 5    | 10%        | MH      |
| Small or Prostrate Herb                           | 1    | 5%         | SH      |
| Medium to Small Tufted Graminoid                  | 3    | 30%        | MTG     |
| Medium to Tiny Non-tufted Graminoid               | 2    | 10%        | MNG     |
| <b>Total understorey projective foliage cover</b> |      | <b>70%</b> |         |

| LF Code | Species typical of at least part of EVC range  | Common Name         |
|---------|--|---------------------|
| T       | <i>Acacia stenophylla</i>                      | River Coobah        |
| MS      | <i>Muehlenbeckia florulenta</i>                | Tangled Lignum      |
| SS      | <i>Cressa cretica</i>                          | Rosinweed           |
| LH      | <i>Stemodia florulenta</i>                     | Blue Rod            |
| LH      | <i>Wahlenbergia fluminalis</i>                 | River Bluebell      |
| MH      | <i>Haloragis aspera</i>                        | Rough Raspwort      |
| MH      | <i>Centipeda cunninghamii</i>                  | Common Sneezeweed   |
| MH      | <i>Calocephalus sonderi</i>                    | Pale Beauty-heads   |
| SH      | <i>Epaltes australis</i>                       | Spreading Nut-heads |
| MTG     | <i>Sporobolus mitchellii</i>                   | Rat-tail Couch      |
| MTG     | <i>Cyperus gymnocaulos</i>                     | Spring Flat-sedge   |
| MTG     | <i>Lachnagrostis filiformis</i>                | Common Blown-grass  |
| MNG     | <i>Cynodon dactylon</i> var. <i>pulchellus</i> | Native Couch        |

#### Recruitment:

Continuous

#### Organic Litter:

20 % cover

#### Logs:

20 m/0.1 ha.

#### Weediness:

There are no consistent weeds in this EVC.

# EVC 813: Intermittent Swampy Woodland - Robinvale Plains bioregion

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Robinvale Plains bioregion

### EVC 816: Sedgy Riverine Forest

#### Description:

Eucalypt forest to 25 m tall with understorey dominated by larger sedges. Understorey composition indicative of at least occasional shallow flooding and a tolerance of gaps between floods of several years. Typically on heavy soils which can become wet in winter. Sedgy Riverine Forest has some floristic affinities to Red Gum Swamp. It is considered to occupy areas infrequently flooded and in which flood duration may be short, for example, higher ground surrounding the box ridges or occurring along the river levee in a position remote from the channels from which the forest first floods. These areas are therefore the last to flood and the first from which floods quickly recede. Soils are typically heavy clays. The major understorey species *Carex tereticaulis* is intolerant of total immersion (at least in turbid water).

#### Large trees:

| Species                | DBH(cm) | #/ha    |
|------------------------|---------|---------|
| <i>Eucalyptus</i> spp. | 80 cm   | 20 / ha |

#### Tree Canopy Cover:

| %cover | Character Species               | Common Name   |
|--------|---------------------------------|---------------|
| 30%    | <i>Eucalyptus camaldulensis</i> | River Red-gum |

#### Understorey:

| Life form   | #Spp | %Cover     | LF code |
|---|------|------------|---------|
| Immature Canopy Tree                              |      | 5%         | IT      |
| Medium Shrub                                      | 1    | 10%        | T       |
| Medium Herb                                       | 2    | 5%         | MH      |
| Small or Prostrate Herb                           | 2    | 5%         | SH      |
| Large Tufted Graminoid                            | 1    | 50%        | LTG     |
| Medium to Small Tufted Graminoid                  | 2    | 10%        | MTG     |
| Medium to Tiny Non-tufted Graminoid               | 2    | 10%        | MNG     |
| <b>Total understorey projective foliage cover</b> |      | <b>90%</b> |         |

|     |   |                      |
|-----|---|----------------------|
| MS  | <i>Exocarpos strictus</i>                         | Pale-fruit Ballart   |
| LH  | <i>Wahlenbergia fluminalis</i>                    | River Bluebell       |
| LH  | <i>Senecio quadridentatus</i>                     | Cotton Fireweed      |
| LH  | <i>Brachyscome basaltica</i> var. <i>gracilis</i> | Woodland Swamp-daisy |
| MH  | <i>Marsilea drummondii</i>                        | Common Nardoo        |
| SH  | <i>Lobelia concolor</i>                           | Poison Pratia        |
| SH  | <i>Chamaesyce drummondii</i>                      | Flat Spurge          |
| LTG | <i>Carex tereticaulis</i>                         | Rush Sedge           |
| MTG | <i>Setaria jubiflora</i>                          | Warrego Summer-grass |
| MTG | <i>Lachnagrostis filiformis</i>                   | Common Blown Grass   |
| MNG | <i>Eleocharis acuta</i>                           | Common Spike-sedge   |
| MNG | <i>Eleocharis pusilla</i>                         | Small Spike-sedge    |

#### Recruitment:

Episodic/Flood. Desirable period between disturbances is 10 years.

#### Organic Litter:

10 % cover

#### Logs:

20 m/0.1 ha.

#### Weediness:

| LF Code | Typical Weed Species            | Common Name       | Invasive | Impact |
|---------|---------------------------------|-------------------|----------|--------|
| LH      | <i>Lactuca serriola</i>         | Prickly Lettuce   | high     | low    |
| LH      | <i>Aster subulatus</i>          | Aster Weed        | high     | low    |
| LH      | <i>Helminthotheca echioides</i> | Prickly Ox-tongue | high     | low    |
| LH      | <i>Cirsium vulgare</i>          | Spear Thistle     | high     | high   |

# EVC 816: Sedgy Riverine Forest - Robinvale Plains bioregion

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Robinvale Plains bioregion

### EVC 818: Shrubby Riverine Woodland

#### Description:

Eucalypt woodland to open forest to 15 m tall of less flood-prone (riverine) watercourse fringes, principally on levees and higher sections of point-bar deposits. The understorey includes a range of species shared with drier floodplain habitats with a sparse shrub component, ground-layer patchily dominated by various life-forms. A range of large dicot herbs (mostly herbaceous perennial, several with a growth-form approaching that of small shrub) are often conspicuous.

#### Large trees:

| Species                         | DBH(cm) | #/ha |
|---------------------------------|---------|------|
| <i>Eucalyptus largiflorens</i>  | 50 cm   | 5/ha |
| <i>Eucalyptus camaldulensis</i> | 80 cm   |      |

#### Tree Canopy Cover:

| %cover | Character Species               | Common Name   |
|--------|---------------------------------|---------------|
| 10%    | <i>Eucalyptus largiflorens</i>  | Black Box     |
|        | <i>Eucalyptus camaldulensis</i> | River Red-gum |

#### Understorey:

| Life form                        | #Spp | %Cover | LF code |
|----------------------------------|------|--------|---------|
| Immature Canopy Tree             |      | 5%     | IT      |
| Understorey Tree or Large Shrub  | 1    | 5%     | T       |
| Medium Shrub                     | 2    | 10%    | MS      |
| Small Shrub                      | 2    | 5%     | SS      |
| Large Herb                       | 4    | 10%    | LH      |
| Medium Herb                      | 5    | 10%    | MH      |
| Small or Prostrate Herb*         | 2    | 1%     | SH      |
| Medium to Small Tufted Graminoid | 2    | 10%    | MTG     |

\* Largely seasonal life form

**Total understorey projective foliage cover 50%**

| LF Code | Species typical of at least part of EVC range          | Common Name          |
|---------|--|----------------------|
| T       | <i>Acacia stenophylla</i>                              | River Coobah         |
| MS      | <i>Muehlenbeckia florulenta</i>                        | Tangled Lignum       |
| MS      | <i>Chenopodium nitriaceum</i>                          | Nitre Goosefoot      |
| SS      | <i>Enchylaena tomentosa</i> var. <i>tomentosa</i>      | Ruby Saltbush        |
| PS      | <i>Sclerochlamys brachyptera</i>                       | Short-wing Saltbush  |
| LH      | k <i>Senecio cunninghamii</i> var. <i>cunninghamii</i> | Branching Groundsel  |
| LH      | <i>Senecio pinnatifolius</i>                           | Mallee Groundsel     |
| LH      | <i>Xerochrysum bracteatum</i>                          | Golden Everlasting   |
| MH      | <i>Calotis cuneifolia</i>                              | Blue Burr-daisy      |
| MH      | k <i>Lotus australis</i>                               | Austral Trefoil      |
| MH      | r <i>Picris squarrosa</i>                              | Squat Picris         |
| MH      | <i>Teucrium racemosum</i> s.l.                         | Grey Germander       |
| MTG     | <i>Setaria jubiflora</i>                               | Warrego Summer-grass |

#### Recruitment:

Continuous

#### Organic Litter:

10% cover

#### Logs:

10m/0.1 ha.

# EVC 818: Shrubby Riverine Woodland - Robinvale Plains bioregion

## Weediness:

| LF Code | Typical Weed Species                         | Common Name             | Invasive | Impact |
|---------|--|-------------------------|----------|--------|
| T       | <i>Olea europaea</i> subsp. <i>europaea</i>  | Olive                   | high     | high   |
| MS      | <i>Lycium ferocissimum</i>                   | Boxthorn                | high     | high   |
| LH      | <i>Sisymbrium erysimoides</i>                | Smooth Mustard          | high     | high   |
| LH      | <i>Critesion</i> spp.                        | Barley-grass            | high     | low    |
| LH      | <i>Gazania linearis</i>                      | Gazania                 | high     | high   |
| LH      | <i>Opuntia</i> spp.                          | Prickly Pear            | low      | high   |
| LH      | <i>Sisymbrium irio</i>                       | London Mustard          | high     | high   |
| LH      | <i>Psilocalon granolicaule</i>               | Noon-flower             | high     | high   |
| MH      | <i>Limonium sinuatum</i>                     | Notch-leaf Sea-lavender | high     | high   |
| MH      | <i>Limonium lobatum</i>                      | Winged Sea-lavender     | high     | high   |
| MH      | <i>Trifolium arvense</i> var. <i>arvense</i> | Hare's-foot Clover      | high     | low    |
| MH      | <i>Mesembryanthemum nodiflora</i>            | Ice-plant               | high     | high   |
| MH      | <i>Carrichtera annua</i>                     | Ward's Weed             | high     | high   |
| MH      | <i>Marrubium vulgare</i>                     | Horehound               | high     | high   |
| MH      | <i>Carpobrotus aequilaterus</i>              | Angled Pigface          | low      | high   |
| MH      | <i>Silene apetala</i> var. <i>apetala</i>    | Sand Catchfly           | high     | low    |
| MH      | <i>Medicago</i> spp.                         | Medic                   | high     | low    |
| MH      | <i>Oxalis pes-caprae</i>                     | Soursob                 | high     | high   |
| MH      | <i>Silene gallica</i>                        | French Catchfly         | high     | low    |
| MH      | <i>Silene nocturna</i>                       | Mediterranean Catchfly  | high     | low    |
| SH      | <i>Mesembryanthemum crystallinum</i>         | Common Ice-plant        | high     | high   |
| MTG     | <i>Vulpia bromoides</i>                      | Squirrel-tail Fescue    | high     | high   |
| MTG     | <i>Lolium rigidum</i>                        | Wimmera Rye-grass       | high     | low    |
| MTG     | <i>Asphodelus fistulosus</i>                 | Onion Weed              | high     | high   |
| MNG     | <i>Bromus rubens</i>                         | Red Brome               | high     | high   |
| MNG     | <i>Vulpia myuros</i>                         | Rat's-tail Fescue       | high     | low    |
| MNG     | <i>Bromus</i> spp.                           | Brome                   | high     | high   |
| MNG     | <i>Schismus barbatus</i>                     | Arabian Grass           | high     | low    |
| SC      | <i>Asparagus asparagoides</i>                | Bridal Creeper          | high     | high   |

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Robinvale Plains bioregion

### EVC 819: Spike-sedge Wetland

#### Description:

Low sedgy vegetation of species-poor seasonal or intermittent wetlands, dominated by spike-sedges. Typically treeless, but sometimes with thickets of saplings or scattered more mature specimens of *Eucalyptus camaldulensis*. Mostly confined to a narrow ring around the upper margins of floodway ponds. Soils are typically heavy clays (e.g. mottled yellow-grey clay, grey loamy clay), occasionally silty near the surface. In some riverine sites, annual inundation is not reliable and the rhizomic rootstocks of *Eleocharis acuta* appear capable of surviving at least occasional periods of longer dormancy.

#### Life Forms:

| Life form   | #Spp | %Cover     | LF code |
|---|------|------------|---------|
| Large Herb  | 1    | 5%         | LH      |
| Medium Herb                                       | 6    | 15%        | MH      |
| Small or Prostrate Herb                           | 4    | 5%         | SH      |
| Medium to Small Tufted Graminoid                  | 2    | 10%        | MTG     |
| Medium to Tiny Non-tufted Graminoid               | 2    | 50%        | MNG     |
| <b>Total understorey projective foliage cover</b> |      | <b>75%</b> |         |

| LF Code | Species typical of at least part of EVC range       | Common Name           |
|---------|---|-----------------------|
| LH      | <i>Senecio quadridentatus</i>                       | Cottony Fireweed      |
| MH      | <i>Myriophyllum crispatum</i>                       | Upright Milfoil       |
| MH      | <i>Marsilea drummondii</i>                          | Common Nardoo         |
| MH      | <i>Ludwigia peploides</i> ssp. <i>montevidensis</i> | Clove-strip           |
| MH      | <i>Centipeda cunninghamii</i>                       | Common Sneezeweed     |
| SH      | <i>Labellia concolor</i>                            | Poison Pratia         |
| SH      | <i>Persicaria prostrata</i>                         | Prostrate Knotweed    |
| SH      | <i>Callitriche sonderi</i>                          | Matted Water-starwort |
| MTG     | <i>Triglochin procerum</i> s.l.                     | Water-ribbons         |
| MTG     | <i>Lachnagrostis filiformis</i>                     | Common Blown Grass    |
| MNG     | <i>Eleocharis acuta</i>                             | Common Spike-sedge    |
| MNG     | <i>Eleocharis pusilla</i>                           | Small Spike-sedge     |

#### Recruitment:

Episodic/Flood – desirable period is every five years

#### Organic Litter:

20% Cover

#### Logs:

5 m/0.1 ha. (where trees are overhanging the wetland)

#### Weediness:

| LF Code | Typical Weed Species      | Common Name | Invasive | Impact |
|---------|---------------------------|-------------|----------|--------|
| LH      | <i>Aster subulatus</i>    | Aster-weed  | high     | low    |
| MNG     | <i>Paspalum distichum</i> | Water Couch | high     | high   |

# EVC 819: Spike-sedge Wetland - Robinvale Plains bioregion

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## EVC/Bioregion Benchmark for Vegetation Quality Assessment

### Robinvale Plain Bioregion

#### EVC 820: Sub-saline Depression Shrubland

##### Description:

A low open shrubland/herbland dominated by chenopods and succulents and occurring on the highest terraces of the former (i.e. pre-1750) Murray River floodplain in far North-West Victoria. It occupies semi-saline treeless pans in low-lying areas within Riverine Chenopod Woodland on very heavy and mildly saline clay soils.

##### Understorey:

| Lifeform                | #Spp | %Cover | LF Code |
|-------------------------|------|--------|---------|
| Small Shrub             | 4    | 25%    | SS      |
| Prostrate Shrub         | 2    | 5%     | PS      |
| Medium Herb             | 6    | 25%    | MH      |
| Small or Prostrate Herb | 4    | 20%    | SH      |
| Bryophytes/Lichens      |      | 10%    | BL      |
| Soil Crust              |      | 20%    | S/C     |

| LF Code | Species typical of at least part of EVC range   | Common Name         |
|---------|---|---------------------|
| SS      | <i>Atriplex lindleyi</i>                        | Flat-top Saltbush   |
| SS      | <i>Cressa australis</i>                         | Rosinweed           |
| SS      | r <i>Malacocera tricornis</i>                   | Goat Head           |
| SS      | <i>Sclerolaena tricuspis</i>                    | Streaked Copperburr |
| PS      | <i>Sclerochlamys brachyptera</i>                | Short-wing Saltbush |
| MH      | <i>Brachyscome lineariloba</i>                  | Hard-head Daisy     |
| MH      | <i>Goodenia pinnatifida</i>                     | Cut-leaf Goodenia   |
| MH      | <i>Plantago cunninghamii</i>                    | Clay Plantain       |
| MH      | <i>Senecio glossanthus</i>                      | Slender Groundsel   |
| SH      | <i>Disphyma crassifolium subsp. clavellatum</i> | Rounded Noon-flower |
| SH      | <i>Maireana pentagona</i>                       | Hairy Bluebush      |

##### Recruitment:

Continuous.

##### Organic Litter:

5 % cover

##### Weediness:

| LF Code | Typical Weed Species         | Common Name          | Invasive | Impact |
|---------|------------------------------|----------------------|----------|--------|
| LH      | <i>Brassica tournefortii</i> | Mediterranean Turnip | high     | high   |
| MH      | <i>Carrichtera annua</i>     | Ward's Weed          | high     | high   |
| SH      | <i>Medicago minima</i>       | Little Medic         | high     | high   |
| MNG     | <i>Vulpia bromoides</i>      | Squirrel-tail Fescue | high     | high   |

# EVC 820: Sub-saline Depression Shrubland

## Weediness:

| LF Code | Typical Weed Species          | Common Name           | Invasive | Impact |
|---------|-------------------------------|-----------------------|----------|--------|
| MNG     | <i>Bromus rubens</i>          | Red Brome             | high     | high   |
| MTG     | <i>Hordeum glaucum</i>        | Northern Barley-grass | high     | high   |
| MNG     | <i>Schismus barbatus</i>      | Arabian Grass         | high     | high   |
| MNG     | <i>Parapholis incurva</i>     | Coast Barb-grass      | high     | high   |
| LH      | <i>Sonchus oleraceus</i>      | Common Sow-thistle    | high     | low    |
| SH      | <i>Spergularia rubra s.l.</i> | Red Sand-spurrey      | high     | low    |
| MH      | <i>Spergularia diandra</i>    | Lesser Sand-spurrey   | high     | low    |
| MNG     | <i>Lamarckia aurea</i>        | Golden-top            | high     | low    |
| MH      | <i>Reichardia tingitana</i>   | False Sow-thistle     | high     | low    |
| MH      | <i>Hypochoeris glabra</i>     | Smooth Cat's-ear      | high     | low    |

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Robinvale Plains bioregion

### EVC 821: Tall Marsh

#### Description:

Wetland dominated by tall emergent graminoids (rushes, sedges, reeds), typically in thick species-poor swards. Competitive exclusion in core wetland habitat - of optimum growing conditions for species tolerant of sustained shallow inundation. Occupies wetlands usually associated with anabranch creeks. Soils are almost permanently moist. Dominant species are tolerant of relatively deep and sustained inundation, but not total immersion for any sustained period.

#### Life Forms:

| Life form   | #Spp | %Cover     | LF code |
|---|------|------------|---------|
| Medium Herb                                       | 6    | 20%        | MH      |
| Small or Prostrate Herb                           | 3    | 10%        | SH      |
| Large Tufted Graminoid                            | 1    | 10%        | LTG     |
| Large Non-tufted Graminoid                        | 3    | 40%        | LNG     |
| Medium to Tiny Non-tufted Graminoid               | 2    | 10%        | MNG     |
| <b>Total understorey projective foliage cover</b> |      | <b>90%</b> |         |

| LF Code | Species typical of at least part of EVC range | Common Name          |
|---------|---|----------------------|
| MH      | <i>Myriophyllum papillosum</i>                | Robust Water-milfoil |
| MH      | <i>Persicaria decipiens</i>                   | Slender Knotweed     |
| MH      | <i>Lythrum hyssopifolia</i>                   | Small Loose-strife   |
| MH      | <i>Potamogeton tricarinatus</i> s.l.          | Floating Pondweed    |
| SH      | <i>Lemna disperma</i>                         | Common Duckweed      |
| SH      | <i>Azolla filiculoides</i>                    | Pacific Azolla       |
| LTG     | <i>Juncus ingens</i>                          | Giant Rush           |
| LNG     | <i>Schoenoplectus tabernaemontani</i>         | River Club-sedge     |
| LNG     | <i>Phragmites australis</i>                   | Common Reed          |
| LNG     | <i>Typha orientalis</i>                       | Broad-leaf Cumbungi  |
| LNG     | <i>Typha domingensis</i>                      | Cumbungi             |
| MTG     | <i>Triglochin procerum</i> s.l.               | Water Ribbons        |
| MNG     | <i>Eleocharis acuta</i>                       | Common Spike-sedge   |
| MNG     | <i>Pseudoraphis spinescens</i>                | Spiny Mud-grass      |

#### Recruitment:

Episodic/Flood: desirable period of disturbance is every year

#### Organic Litter:

10% cover

#### Logs:

5 m/0.1 ha.(where trees are overhanging the wetland)

#### Weediness:

| LF Code | Typical Weed Species            | Common Name        | Invasive | Impact |
|---------|---------------------------------|--------------------|----------|--------|
| T       | <i>Salix cinerea</i>            | Grey Sallow        | high     | high   |
| MH      | <i>Rorippa palustris</i>        | Yellow Marsh-cress | high     | high   |
| MTG     | <i>Polyopogon monspeliensis</i> | Annual Beard-grass | high     | low    |
| MNG     | <i>Paspalum distichum</i>       | Water Couch        | high     | high   |

# EVC 821: Tall Marsh – Robinvale Plains bioregion

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Robinvale Plains bioregion

### EVC 823: Lignum Swampy Woodland

#### Description:

Understorey dominated by Lignum, typically of robust character and relatively dense (at least in patches), in association with a low Eucalypt and/or Acacia woodland to 15 m tall. The ground layer includes a component of obligate wetland flora that is able to persist even if dormant over dry periods.

#### Large trees:

| Species                         | DBH(cm) | #/ha  |
|---------------------------------|---------|-------|
| <i>Eucalyptus largiflorens</i>  | 50cm    | 15/ha |
| <i>Eucalyptus camaldulensis</i> | 70cm    |       |

#### Tree Canopy Cover:

| % cover | Character Species               | Common Name   |
|---------|---------------------------------|---------------|
| 20%     | <i>Eucalyptus largiflorens</i>  | Black Box     |
|         | <i>Eucalyptus camaldulensis</i> | River Red Gum |
|         | <i>Acacia stenophylla</i>       | River Coobah  |

#### Understorey:

| Life form                           | #Spp | %Cover | LF code |
|-------------------------------------|------|--------|---------|
| Immature Canopy Tree                |      | 5%     | IT      |
| Medium Shrub                        | 2    | 30%    | MS      |
| Small Shrub                         | 1    | 5%     | SS      |
| Large Herb                          | 2    | 1%     | LH      |
| Medium Herb*                        | 8    | 10%    | MH      |
| Small or Prostrate Herb*            | 4    | 10%    | SH      |
| Medium to Small Tufted Graminoid*   | 2    | 5%     | MTG     |
| Large Non-tufted Graminoid          | 1    | 5%     | LNG     |
| Medium to Tiny Non-tufted Graminoid | 3    | 15%    | MNG     |
| Soil Crust                          | na   | 10%    | S/C     |

\* Largely seasonal life form

**Total understorey projective foliage cover 70%**

| LF Code | Species typical of at least part of EVC range | Common Name              |
|---------|---|--------------------------|
| MS      | <i>Muehlenbeckia florulenta</i>               | Tangled Lignum           |
| MS      | <i>Chenopodium nitrariaceum</i>               | Nitre Goosefoot          |
| SS      | <i>Atriplex lindleyi</i>                      | Flat-top Saltbush        |
| SS      | <i>Sclerolaena muricata</i>                   | Five-spined Bassia       |
| LH      | <i>Rumex</i> spp.                             | Dock                     |
| MH      | <i>Marsilea drummondii</i>                    | Common Nardoo            |
| MH      | <i>Brachyscome ciliaris</i>                   | Variable Daisy           |
| MH      | <i>Euchiton sphaericus</i>                    | Annual Cudweed           |
| MH      | <i>Ranunculus</i> spp.                        | Buttercup                |
| MTG     | <i>Setaria jubiflora</i>                      | Warrego Summer-grass     |
| MTG     | <i>Austrodanthonia duttoniana</i>             | Brown-back Wallaby-grass |
| MTG     | <i>Sporobolus mitchellii</i>                  | Short Rat-tail Grass     |
| MTG     | <i>Eragrostis setifolia</i>                   | Bristly Love-grass       |
| LNG     | <i>Eragrostis australasica</i>                | Cane Grass               |
| MNG     | <i>Eragrostis infecunda</i>                   | Barren Cane grass        |
| MNG     | <i>Eleocharis acuta</i>                       | Common Spike-sedge       |
| MNG     | <i>Eleocharis pusilla</i>                     | Small Spike-sedge        |
| SC      | <i>Asperula gemella</i>                       | Twin-leaf Bedstraw       |

# EVC 823: Lignum Swampy Woodland - Robinvale Plains bioregion

**Recruitment:**

Continuous

**Organic Litter:**

10 % cover

**Logs:**

10m/0.1 ha.

**Weediness:**

| LF Code | Typical Weed Species   | Common Name | Invasive | Impact |
|---------|------------------------|-------------|----------|--------|
| SH      | <i>Phyla canescens</i> | Lippia      | high     | high   |

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Robinvale Plains bioregion

### EVC 824: Woorinen Mallee

#### Description:

Widespread mallee woodland to 12 m tall, associated with the east-west orientated calcareous dunefields of the Woorinen Formation with a low, open chenopod dominated shrub understorey. A diverse array of sub-shrubs, herbs and grasses are also present. Typically occurs on fine textured red-brown sandy loam and clay loam soils.

#### Large trees:

| Species                | DBH(cm) | #/ha  |
|------------------------|---------|-------|
| <i>Eucalyptus</i> spp. | 15 cm   | 30/ha |

#### Tree Canopy Cover:

| % cover | Character Species                           | Common Name   |
|---------|---|---------------|
| 25%     | <i>Eucalyptus oleosa</i> ssp. <i>oleosa</i> | Oil Mallee    |
|         | <i>Eucalyptus dumosa</i>                    | Dumosa Mallee |
|         | <i>Eucalyptus gracilis</i>                  | Yorrell       |
|         | <i>Eucalyptus calycogona</i>                | Red Mallee    |
|         | <i>Eucalyptus socialis</i>                  | Grey Mallee   |

#### Understorey:

| Life form                        | #Spp | %Cover | LF code |
|----------------------------------|------|--------|---------|
| Medium Shrub                     | 6    | 10%    | MS      |
| Small Shrub                      | 6    | 20%    | SS      |
| Medium Herb*                     | 6    | 10%    | MH      |
| Small or Prostrate Herb          | 7    | 10%    | SH      |
| Medium to Small Tufted Graminoid | 1    | 1%     | MTG     |
| Bryophytes/Lichens               | na   | 10%    | BL      |
| Soil Crust                       | na   | 15%    | S/C     |

\* Largely seasonal life form

**Total understorey projective foliage cover 60%**

| LF Code | Species typical of at least part of EVC range     | Common Name          |
|---------|---|----------------------|
| MS      | <i>Santalum acuminatum</i>                        | Sweet Quandong       |
| MS      | <i>Exocarpos aphyllus</i>                         | Leafless Ballart     |
| MS      | <i>Acacia oswaldii</i>                            | Umbrella Wattle      |
| MS      | <i>Eremophila glabra</i>                          | Common Emu-bush      |
| SS      | <i>Enchylaena tomentosa</i> var. <i>tomentosa</i> | Ruby Saltbush        |
| SS      | <i>Chenopodium curvispicatum</i>                  | Cottony Goosefoot    |
| SS      | <i>Olearia muelleri</i>                           | Mueller Daisy-bush   |
| SS      | <i>Maireana pentatropis</i>                       | Erect Bluebush       |
| MH      | <i>Zygophyllum apiculatum</i>                     | Pointed Twin-leaf    |
| MH      | <i>Stenopetalum lineare</i>                       | Narrow Thread-petal  |
| MH      | <i>Eriochiton sclerolaenoides</i>                 | Wooly-fruit Bluebush |
| MH      | <i>Brachyscome ciliaris</i>                       | Variable Daisy       |
| SH      | <i>Calandrinia eremaea</i>                        | Small Purslane       |
| SH      | <i>Ptilotus seminudus</i>                         | Rabbit Tails         |
| SH      | <i>Rhodanthe pygmaea</i>                          | Pygmy Sunray         |
| SH      | <i>Isoetopsis graminifolia</i>                    | Grass Cushion        |
| MTG     | <i>Austrostipa elegantissima</i>                  | Feather Spear-grass  |

# EVC 824: Woorinen Mallee – Robinvale Plains bioregion

## Recruitment:

Continuous (excluding overstorey)

## Organic Litter:

20% cover

## Logs:

20m/0.1 ha. (note: large log class does not apply)

## Weediness:

| LF Code | Typical Weed Species                         | Common Name             | Invasive | Impact |
|---------|--|-------------------------|----------|--------|
| T       | <i>Olea europaea</i> subsp. <i>europaea</i>  | Olive                   | high     | high   |
| MS      | <i>Lycium ferocissimum</i>                   | Boxthorn                | high     | high   |
| LH      | <i>Opuntia</i> spp.                          | Prickly Pear            | high     | high   |
| LH      | <i>Croton</i> spp.                           | Barley-grass            | high     | low    |
| LH      | <i>Gazania linearis</i>                      | Gazania                 | high     | high   |
| LH      | <i>Psilocalon granulicaule</i>               | Noon-flower             | high     | high   |
| LH      | <i>Sisymbrium erysimoides</i>                | Smooth Mustard          | high     | high   |
| LH      | <i>Sisymbrium irio</i>                       | London Mustard          | high     | high   |
| MH      | <i>Brassica tournefortii</i>                 | Mediterranean Turnip    | high     | high   |
| MH      | <i>Carpobrotus aequilaterus</i>              | Angled Pigface          | high     | high   |
| MH      | <i>Medicago</i> spp.                         | Medic                   | high     | low    |
| MH      | <i>Marrubium vulgare</i>                     | Horehound               | high     | high   |
| MH      | <i>Oxalis pes-caprae</i>                     | Soursob                 | high     | high   |
| MH      | <i>Trifolium arvense</i> var. <i>arvense</i> | Hare's-foot Clover      | high     | low    |
| MH      | <i>Mesembryanthemum nodiflora</i>            | Ice-plant               | high     | high   |
| MH      | <i>Carrichtera annua</i>                     | Ward's Weed             | high     | high   |
| MH      | <i>Silene apetala</i> var. <i>apetala</i>    | Sand Catchfly           | high     | low    |
| MH      | <i>Silene gallica</i>                        | French Catchfly         | high     | low    |
| MH      | <i>Silene nocturna</i>                       | Mediterranean Catchfly  | high     | low    |
| MH      | <i>Limonium sinuatum</i>                     | Notch-leaf Sea-lavender | high     | high   |
| MH      | <i>Limonium lobatum</i>                      | Winged Sea-lavender     | high     | high   |
| SH      | <i>Mesembryanthemum crystallinum</i>         | Common Ice-plant        | high     | high   |
| MNG     | <i>Schismus barbatus</i>                     | Arabian Grass           | high     | low    |
| MTG     | <i>Asphodelus fistulosus</i>                 | Onion Weed              | high     | high   |
| MTG     | <i>Lolium rigidum</i>                        | Wimmera Rye-grass       | high     | low    |
| MNG     | <i>Bromus</i> spp.                           | Brome                   | high     | high   |
| MNG     | <i>Vulpia myuros</i>                         | Rat's-tail Fescue       | high     | low    |
| SC      | <i>Asparagus asparagoides</i>                | Bridal Creeper          | high     | high   |

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Robinvale Plains bioregion

### EVC 828: Semi-arid Parilla Woodland

#### Description:

A shrubby, non-eucalypt woodland or open forest to 15 m tall of low rainfall areas associated with topographic highs created by weathered Parilla sandstone ridges and dominated by Belah *Casuarina pauper*. This EVC represents a distinctive floristic segregate of Semi-arid Woodland – comprising relatively undisturbed remnants of this broader vegetation descriptor with little or no groundwater influence.

#### Large trees:

| Species   | DBH(cm) | # /ha |
|---|---------|-------|
| <i>Casuarina</i> spp.                             | 40 cm   | 20/ha |
| <i>Callitris gracilis</i> ssp. <i>murrayensis</i> | 40 cm   |       |

#### Tree Canopy Cover:

| % cover | Character Species                                 | Common Name          |
|---------|---|----------------------|
| 20%     | <i>Casuarina pauper</i>                           | Belah                |
|         | <i>Callitris gracilis</i> ssp. <i>murrayensis</i> | Slender Cypress-pine |

#### Understorey:

| Life form                           | #Spp | %Cover | LF code |
|-------------------------------------|------|--------|---------|
| Immature Canopy Tree                |      | 5%     | IT      |
| Medium Shrub                        | 4    | 10%    | MS      |
| Small Shrub                         | 4    | 10%    | SS      |
| Large Herb                          | 2    | 5%     | LH      |
| Medium Herb*                        | 10   | 10%    | MH      |
| Large Non-tufted Graminoid          | 1    | 1%     | LNG     |
| Medium to Small Tufted Graminoid    | 2    | 15%    | MTG     |
| Medium to Tiny Non-tufted Graminoid | 1    | 5%     | MNG     |
| Epiphyte                            | 1    | 1%     | EP      |
| Bryophytes/Lichens                  | na   | 5%     | BL      |
| Soil Crust                          | na   | 30%    | S/C     |

\* Largely seasonal life form

**Total understorey projective foliage cover 85%**

| LF Code | Species typical of at least part of EVC range        | Common Name            |
|---------|--|------------------------|
| MS      | <i>Acacia oswaldii</i>                               | Umbrella Wattle        |
| MS      | <i>Exocarpos aphyllus</i>                            | Leafless Ballart       |
| MS      | <i>Alectryon oleifolius</i> ssp. <i>canescens</i>    | Cattle Bush            |
| MS      | <i>Dodonaea viscosa</i> ssp. <i>angustissima</i>     | Slender Hop-bush       |
| SS      | <i>Olearia pimeleoides</i>                           | Pimelea Daisy-bush     |
| SS      | <i>Olearia muelleri</i>                              | Mueller Daisy-bush     |
| SS      | <i>Sclerolaena diacantha</i>                         | Grey Copperburr        |
| SS      | <i>Chenopodium curvispicatum</i>                     | Cottony Saltbush       |
| MH      | <i>Einadia nutans</i> ssp. <i>nutans</i>             | Nodding Saltbush       |
| MH      | <i>Podolepis capillaris</i>                          | Wiry Podolepis         |
| MH      | <i>Chenopodium desertorum</i> ssp. <i>desertorum</i> | Frosted Goosefoot      |
| LNG     | <i>Austrostipa platychaeta</i>                       | Flat-awned Spear-grass |
| MTG     | <i>Austrostipa</i> spp.                              | Spear Grasses          |
| MNG     | <i>Austrostipa elegantissima</i>                     | Feather Spear-grass    |

# EVC 828: Semi-arid Parilla Woodland – Robinvale Plains bioregion

**Recruitment:**

Continuous

**Organic Litter:**

10% cover

**Logs:**

12m/0.1 ha.

**Weediness:**

| <b>LF Code</b> | <b>Typical Weed Species</b>          | <b>Common Name</b> | <b>Invasive</b> | <b>Impact</b> |
|----------------|--------------------------------------|--------------------|-----------------|---------------|
| MH             | <i>Reichardia tingitana</i>          | False Sow-thistle  | high            | low           |
| SH             | <i>Mesembryanthemum crystallinum</i> | Common Ice-plant   | high            | high          |
| SC             | <i>Asparagus asparagoides</i>        | Bridal Creeper     | high            | high          |

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