



Terrestrial Biodiversity Review



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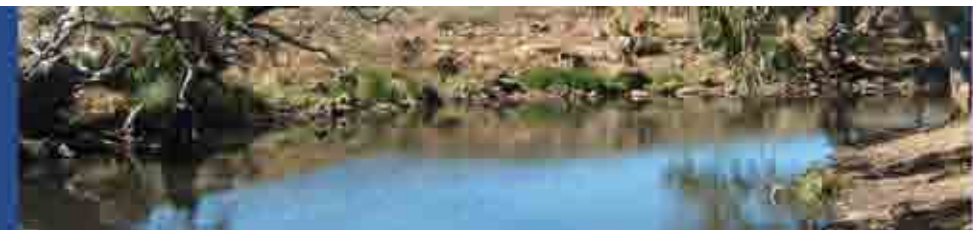


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Terrestrial Biodiversity Review



Terrestrial Biodiversity Review

BIOREGIONAL VEGETATION SUMMARIES

-
- 10 October 2010

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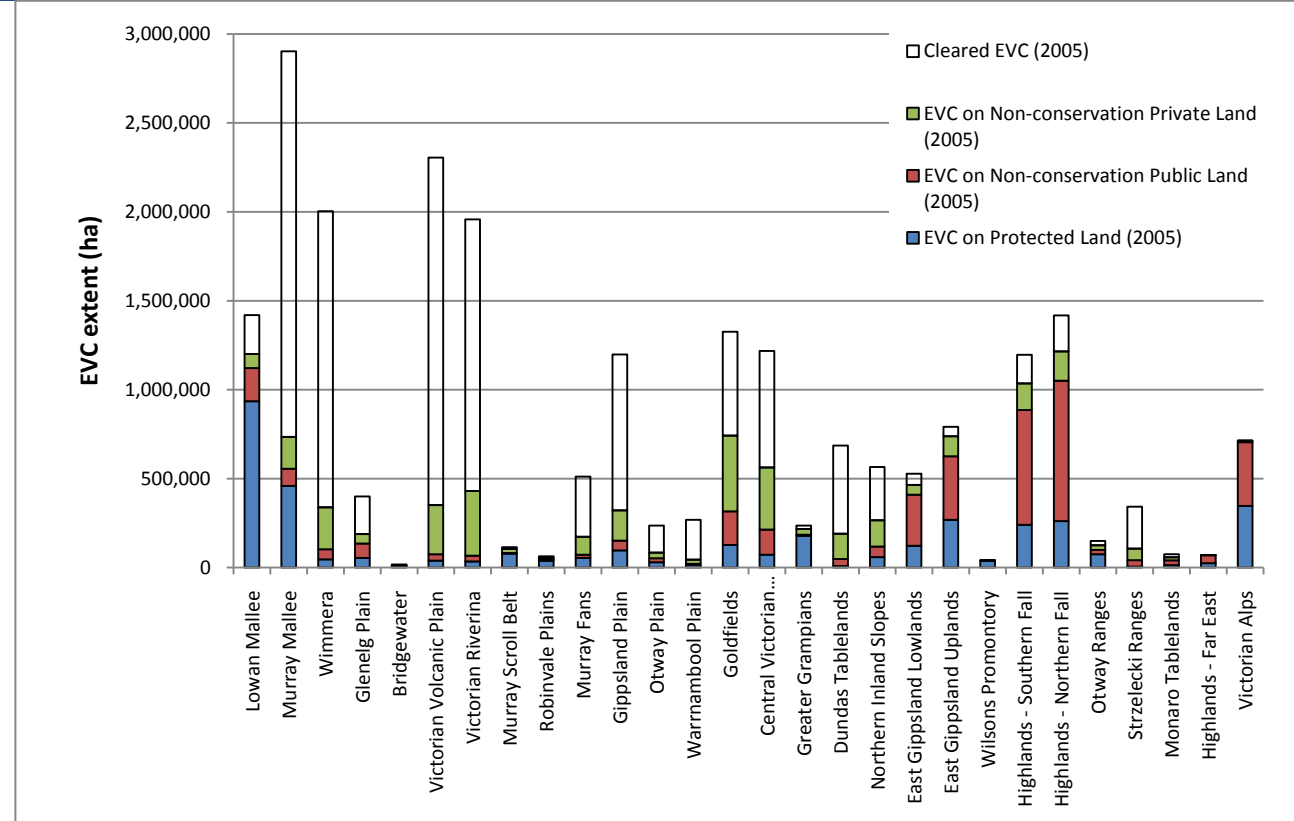
1. Introduction

Sinclair Knight Merz was engaged by the Victorian National Parks Association to collate relevant data on the status of native vegetation in Victoria, to assist the organisation with policy development relating to the direction of biodiversity management in Victoria.

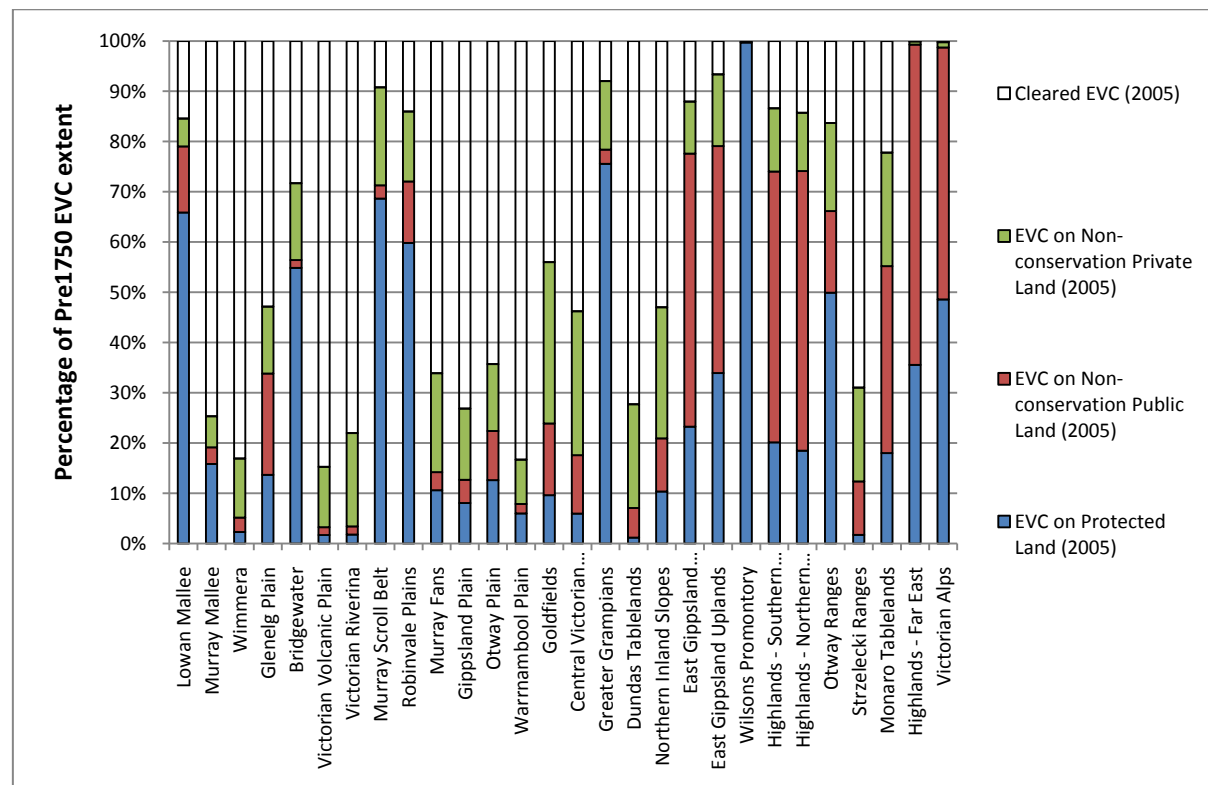
The following bioregional profiles have been developed based on existing vegetation data sets currently held by the Department of Sustainability and Environment (DSE) for the state of Victoria. No new data capture has been undertaken as part of this brief.

The purpose of this review is to provide useful data sets as to the current state of native vegetation in the state of Victoria, particularly focusing on the conservation endeavours currently underway, so as to highlight areas where greater conservation efforts are necessary to meet minimum conservation targets as detailed in various scientific approaches to conservation management, eg. JANIS.

This Review provides details of the current extent of native vegetation distribution, based on existing vegetation mapping held by the Department of Sustainability and Environment (DSE) animalised with respect to the variety of conservation mechanisms used in Victoria, ranging from internationally recognised features such as Ramsar Wetlands and World Heritage Estates, National Parks and, in certain circumstances, State Forests through to Private Conservation Estates such as Bush Heritage and Trust for Nature and individual properties with on-title conservation agreements. The conservation values of National Parks and State Forests are reasonably well understood, however, the integration of the lesser understood conservation areas into our understanding of Victoria's conservation estate provides a true picture of the current extent and future focus requirements for Victoria's terrestrial biodiversity management.



■ Figure 1-2 Remining Vegetation as a function of 1750 extent.



■ Figure 1-1 Vegetation remaining as % of Pre European Extent

The analysis of vegetation has been undertaken at a Bioregional scale. Bioregions are the natural landscape units for which a number of natural resource planning approaches are undertaken. A map of Victoria's Bioregions is presented on Page 3. The overall status of native vegetation conservation and extent in Victoria is provided in Fig. 1-1, showing the proportion as a percentage of the original extent of native vegetation, that remaining within each Bioregion and what proportion of that is protected. The data is also presented in terms of actual areas in Fig. 1-2.

Historically, conservation reserves tended to be established in areas of low development value, tending to favour areas of rugged, dry and/or infertile conditions, which, as the results of this analysis suggest, tend to be areas relatively well represented in existing conservation areas, while vegetation types associated with more fertile areas such as alluvial plains and valley floors tend to be quite poorly represented. This trend is reflected in the bioregional conservation values, where those well conserved EVCs tend to have a 'least concern' conservation value, while those over cleared areas which are not well represented in conservation areas tend to have the more elevated bioregional conservation values of 'endangered' and 'vulnerable'.

While this report provides an important snap shot as to the existing conservation estate in Victoria, providing a focus for future lobbying and procurement activities, it does not focus on some of the other critical landscape level conservation requirements that need equal consideration. Important issues relating to the condition of the existing conservation areas in terms of weed, feral animal, soil pathogen, bush fire management and impact, and human usage also require consideration in terms of establishing management directives. In addition to these, there are important landscape conservation issues, particularly relating to the anticipated impacts of climate change on biodiversity, that also require important consideration, particularly the way biodiversity will be able to move in the landscape as it responds to changing climate conditions. In this regard, the importance of existing reservations need to be considered in the context of how they are linked, so dispersal and migration patterns can be facilitated. However, underpinning such actions and approaches is the need to provide an adequate understanding of the current conservation estate.

2. Methodology

Victoria is divided into 28 different Bioregions (Fig. 2-1), based on attributes such as geology, climate, soil types and vegetation. Remnant native vegetation in Victoria is classified into approximately 300 different Ecological Vegetation Classes (EVCs). EVCs present in each Bioregion are assigned a Conservation Status, based on modelling of its extent in 1750 (i.e. prior to European arrival), as well as its current condition and extent. For ease of landscape scale analysis, EVCs have been sorted into 20 simplified native vegetation groups, or EVC Groups (Fig. 2-2).

Approximately 35% of the remaining remnant native vegetation in Victoria is protected for conservation purposes, including National Parks, Nature Conservation Reserves, Natural Features Reserves, as well as large, Private Conservation Reserves, such as Bush Heritage Australia's 'Nardoo Hills Reserves' and Trust for Nature's 'Ned's Corner' (Fig. 2-3). Although State Forests are public land, which support wide-ranging biodiversity values, including threatened species and ecosystems, they are not considered Conservation Reserves, as management priorities are not based on biodiversity conservation. State Forests have therefore been excluded from the conservation reservation data presented in the Bioregional tables, but do appear as Public Lands in the associated mapping.

Mapping of recent additions to the Conservation Reserve estate in Victoria, such as the Red Gum National Parks, East Gippsland National Parks and Cobboboonee National Park, has not yet been made publicly available. The co-ordinates of land-title boundaries for these and other new Conservation Reserves are, however, provided in amendments to the relevant Victorian State legislation, allowing them to be manually added (digitised) into a Geographic Information System (GIS) layer, as spatial data for mapping and analysis which has been undertaken for this reporting.

Statewide mapping

Four (4) Statewide maps were produced, each identifying broad-scale biodiversity features.

Statewide Map 1 (Fig. 2-1): Victorian Bioregions shows the distribution of 28 Bioregions across Victoria. This is provided as a separate map to Maps 1-3 for ease of reference.

Statewide Map 2 (Fig. 2-2): EVC Vegetation Groups shows the distribution and extent of remnant native vegetation, in simplified EVC Groups across Victoria using DSE's Modelled 2005 Ecological Vegetation Classes (with Bioregional Conservation Status) (NV2005_EVCBCS/EVBCS) GIS layer. This data is useful for identifying where broad collective groups of EVCs have persisted across the wider landscape.

Statewide Map 3 (Fig. 2-3): Public Land and Conservation Reserves / Protected Areas presents a statewide overview of where protected areas are located, as well as other public land. State Forests are also shown, to indicate the large tracts of public land supporting biodiversity as a result of alternative land management objectives. This map is the product of a number of GIS layers, including Parks Victoria's Parks and Reserves GIS layer PK_PARKRES, as well as the Public Land Management Layer PLM100.

New or additional Protected areas, such as the Red Gum National Parks, East Gippsland National Parks, or Cobboboonee National Park were digitised, and added to create 'Updated Parks' based on the PK_PARKRES layer and using the co-ordinates provided in amendments to relevant public land legislation, in conjunction with boundaries in VicMap Property Cadastre GIS data.

While PK_PARKRES should be a sub-set of PLM100, there are significant alignment problems between the two, which arise from the original GIS layers being at different spatial scales, as well as new parks not being recognised by either spatial dataset. Problems integrating the two layers were managed, where all areas from PLM100 which overlapped with PK_PARKRES are removed if:

- The overlapping patch is less than 10 ha - as these areas are the result of misaligned boundaries; or
- If after removing areas overlapping with PK_PARKRES, the remaining patch is less than 40% of the original, overlapping patch - based on the presumption that the entire parcel was originally represented in PK_PARKRES.

While there are minor alignment gaps in the updated Public Land layer, as a result of alignment problems, the gaps are negligible at Bioregional and State scales.

It is understood that the Victorian Environmental Assessment Council (VEAC) are in the process of developing a public land layer called VEACRECS_25, which is 1:25,000 scaled mapping of public land, including small patches such as and railways alignments which have often been overlooked in the PLM100 (1:100,000) scaled map. Using VEAC's newly developed VEACRECS25 as a base, DSE is planning to release a revised public land layer PLM25 in 2011.

Map 3 is particularly valuable in conjunction with Map 1 and Map 2 for identifying higher-value areas of remnant native vegetation, which are under-represented in the parks and reserves system.

Statewide Map 4 (Fig. 2-4): Remnant Native Vegetation - Modelled Landscape Importance displays modelled landscape importance of native vegetation across Victoria, using DSE's Landscape Scale Importance and Connectivity (NV2005_LSIMP/) GIS layer. Landscape importance is modelled by DSE using EVC Conservation Significance, combined with calculated values of habitat fragmentation and connectivity sourced from DSE's Modelled Native Vegetation Quality Dataset (NV2005_QUAL). This combined dataset enables a quick analysis of the rarity, condition and extent of remnant native vegetation at the wider landscape scale, to help prioritise conservation management and protection action.

Bioregional mapping

Five (5) maps are provided for each of the 28 Victorian Bioregions.

Bioregional Map 1a: Landscape Priorities uses DSE's NV2005_LSIMP/ GIS layer to display patch size, quality, condition and rarity as a modelled index of landscape importance, ranging from low-scoring areas in red typically small, modified and fragmented urban patches, whereas scores nearer 20 are in green, representing large, connected remnant patches. This map is titled Landscape Priorities as it allows for the easy identification of higher quality remnant native vegetation. Indexed size, condition and connectivity index act as indicators for past habitat disturbance. The downside of the NV2005_LSIMP layer is that it models the entire landscape, and does not clearly show where remnant native vegetation is, in relation to cleared land. Using this map, greener areas are bigger, more connected, less modified, and generally support greater biodiversity values, highlighting areas and therefore priorities for targeted biodiversity planning.

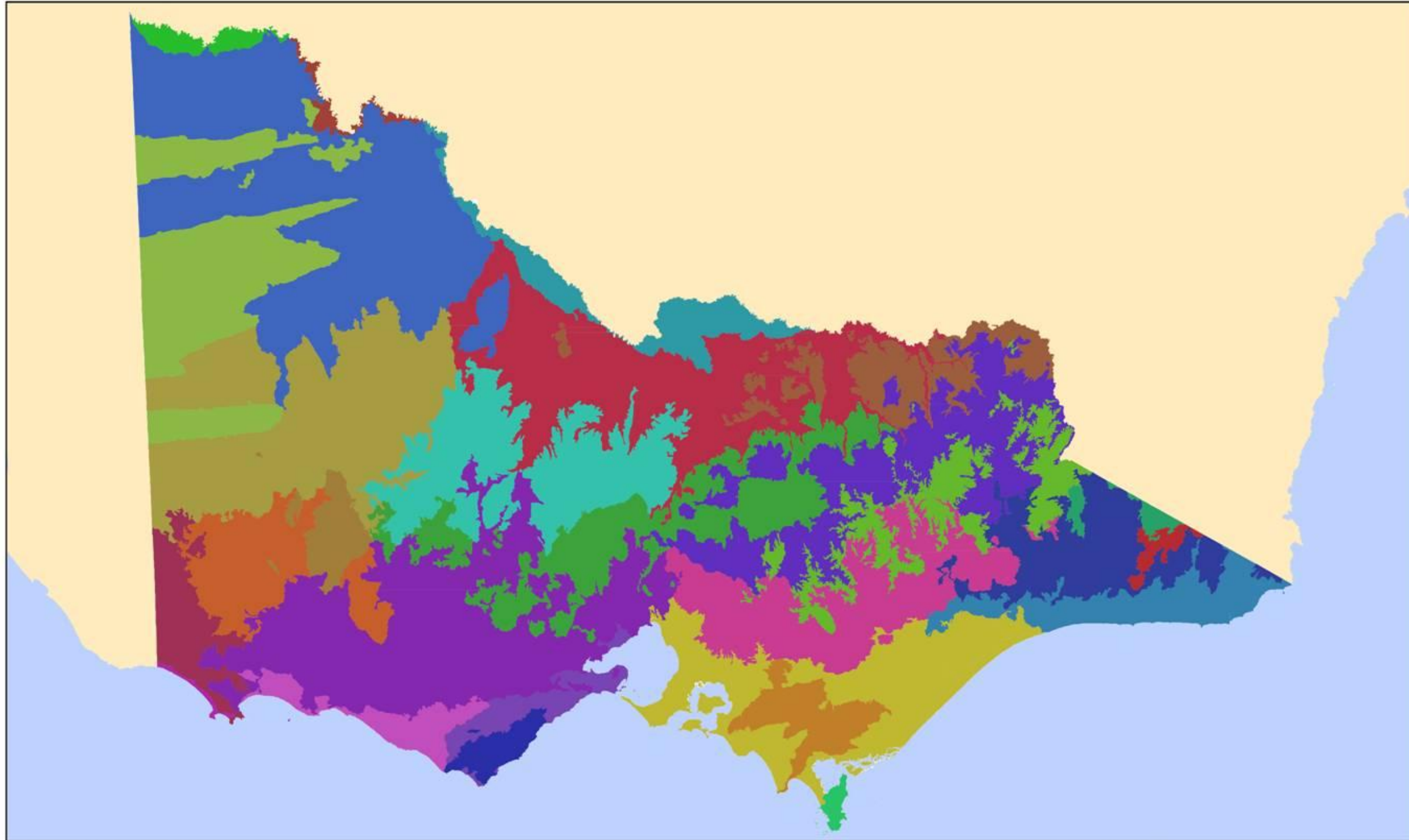
Bioregional Map 1b: Protected Areas is designed to be used in conjunction with the other Bioregional Maps, as it shows Protected Areas in the Updated Parks layer across the Bioregion.

Protected Areas used the Updated Parks layer, which includes National Parks, Natural Features Reserves, and Nature Conservation Reserves. Recent additions to the Victorian parks and reserves system are also included in the Updated Parks Layer. Private Conservation Land, such as Bush Heritage Australia's 'Nardoo Hills Reserves' and Trust for Nature's 'Ned's Corner' are also shown.

Private properties with Conservation Covenant through Trust for Nature (dated December 2009) are included, although the actual extent of covenants is unavailable. Other Public land and State Forests are also included, as these are publicly owned areas which often support high biodiversity values, but where conservation is not a priority for land management.

Bioregional Map 2a: Ecological Vegetation Class (EVC) Bioregional Conservation Significance (BCS) shows all remnant native vegetation from DSEs NV2005_EVCBCS/EVBCS layer. The Conservation Status of remnant native vegetation is shown, beneath the Updated Parks layer of Protected Areas. This map and allows for quick identification of the Conservation Significance of remnant native vegetation in unprotected areas across the Bioregion.

Bioregional Map 2b: EVC Groups shows the distribution of simplified remnant native vegetation (EVC) groups, based on the NV2005_EVCBCS/BCS layer. EVC Groups are mapped beneath the Updated Parks layer, which highlights the general type of vegetation which is currently not protected for conservation purposes.

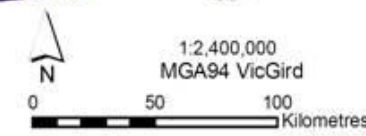


Statewide Map: Victorian Bioregions

Terrestrial and Freshwater Biodiversity Review

Legend

- | | | | | | |
|---------------------------|----------------------|---------------------------|------------------------|--------------------------|---------------------|
| Bridgewater | Gippsland Plain | Highlands - Northern Fall | Murray Mallee | Robinvale Plains | Warmambool Plain |
| Central Victorian Uplands | Glenelg Plain | Highlands - Southern Fall | Murray Scroll Belt | Strzelecki Ranges | Wilson's Promontory |
| Dundas Tablelands | Goldfields | Lowan Mallee | Northern Inland Slopes | Victorian Alps | Wimmera |
| East Gippsland Lowlands | Greater Grampians | Monaro Tablelands | Otway Plain | Victorian Riverina | |
| East Gippsland Uplands | Highlands - Far East | Murray Fans | Otway Ranges | Victorian Volcanic Plain | |



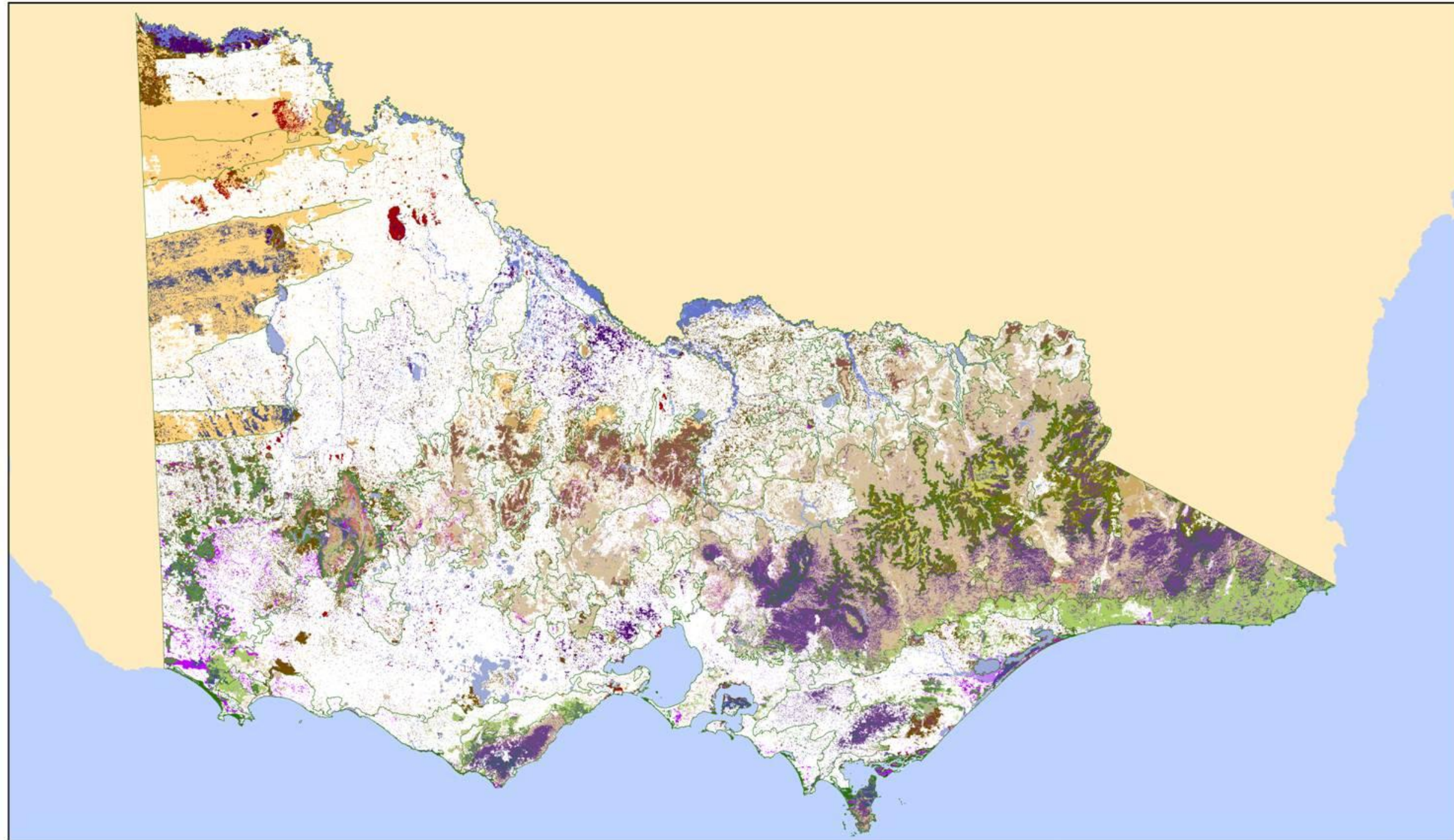
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■ **Figure 2-0-1 Victorian Bioregions**

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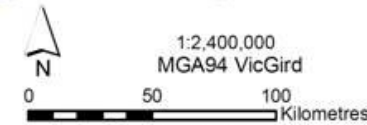


Statewide Map: Ecological Vegetation Class (EVC) Groups

Terrestrial and Freshwater Biodiversity Review

Legend

- | | | | |
|---|--|--------------------------------------|---|
| Coastal Scrubs Grasslands and Woodlands | Wet or Damp Forests | Plains Woodlands or Forests | Salt-tolerant and/or succulent Shrublands |
| Heathy Woodlands | Riparian Scrubs or Swampy Scrubs and Woodlands | Riverine Grassy Woodlands or Forests | Rocky Outcrop or Escarpment Scrubs |
| Lowland Forests | Rainforests | Herb-rich Woodlands | No native vegetation recorded |
| Box Ironbark Forests or dry/lower fertility Woodlands | Montane Grasslands, Shrublands or Woodlands | Heathlands | Bioregion |
| Lower Slopes or Hills Woodlands | Sub-alpine Grasslands, Shrublands or Woodlands | Mallee | |
| Dry Forests | Plains Grasslands and Chenopod Shrublands | Wetlands | |



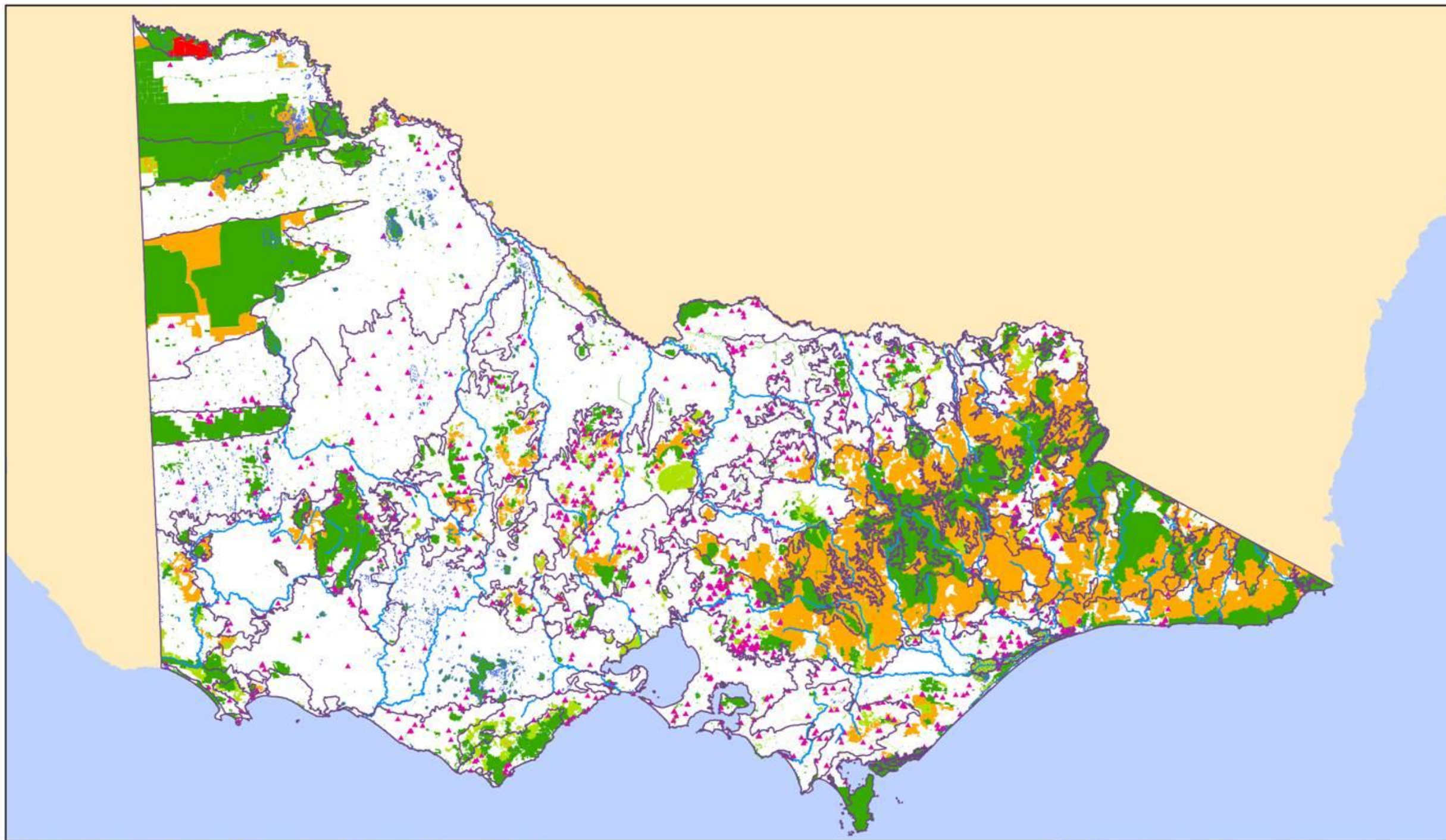
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■ **Figure 2-0-2 Remnant Vegetation as EVC Group**

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Statewide Map: Public Land and Conservation Reserves / Protected Areas

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- Legend**
- Bioregion
 - Watercourse
 - Lakes
 - Conservation Reserve
 - Other Public Land
 - State Forest
 - Private Conservation Reserve
 - Trust for Nature Conservation Covenants

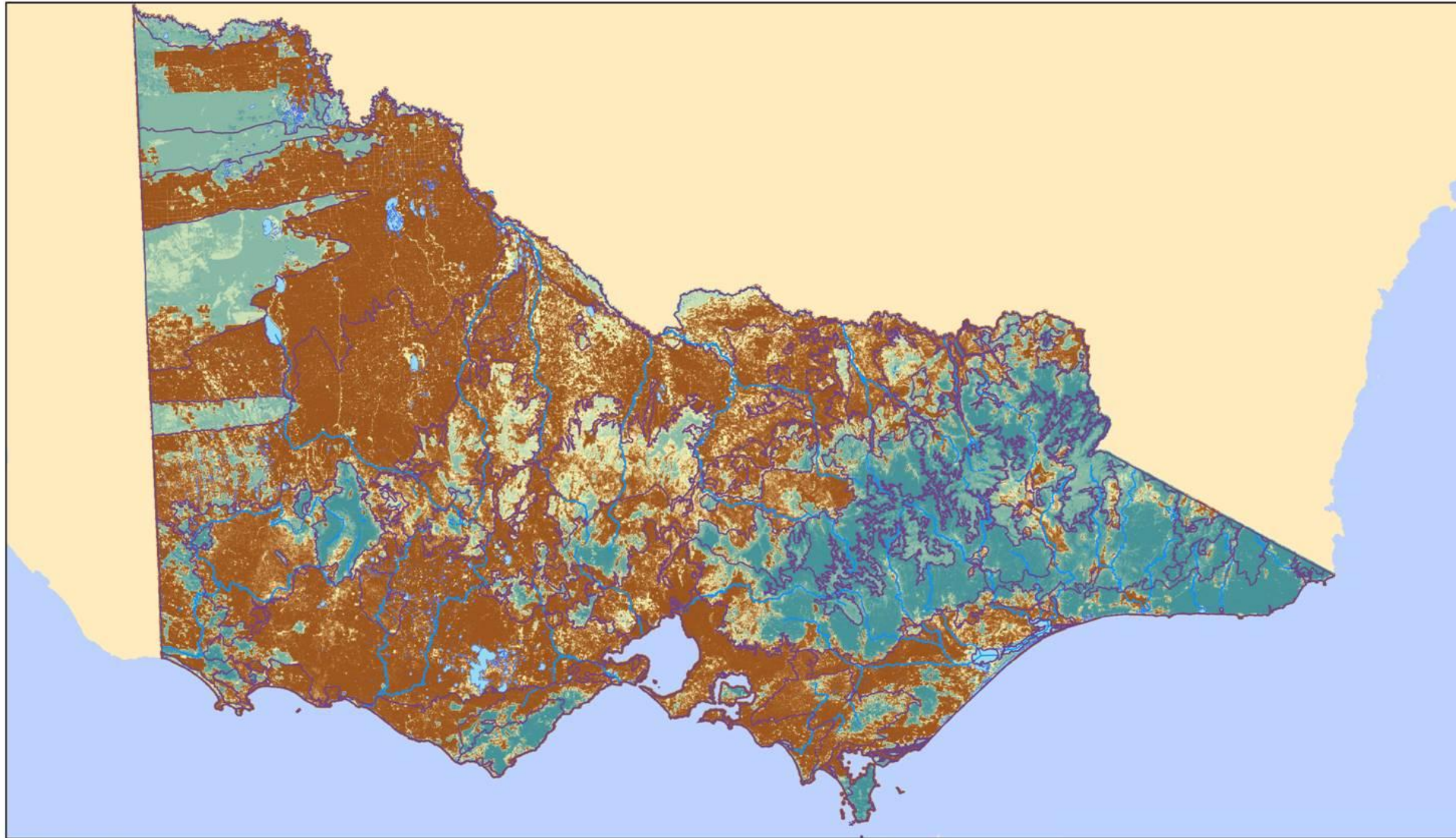
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■ Figure 2-0-3 Victoria's Conservation Reserves and Protected Areas





Statewide Map: Remnant Native Vegetation – Modelled Landscape Importance

Terrestrial and Freshwater Biodiversity Review

Legend

- Bioregion
- Watercourse
- Lakes

DSE Vegetation Quality Index Value

High : 53
Low : 1



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0 50 100
Kilometers

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■ **Figure 2-4 DSEs Modelled Landscape Importance**

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Terrestrial Biodiversity Review



3. Lowan Mallee

Bioregion size: 1 419 874 ha
 Native vegetation cover: 1 200 639 ha (85%)
 Conservation reserve cover (excludes State Forests): 935 173 ha (78%)

Conservation Priorities

As 78% of the remaining native vegetation is already on protected land, conservation priority should be directed towards increasing connectivity between smaller converted areas and core patches and increasing the percentage of Endangered EVCs, such as EVC 66 – Low Rises Woodland and EVC 981 - Parilla Mallee, under protection.

The Lowan Mallee Bioregion (LoM) covers approximately 1 419 874 ha in three lobes in north-west Victoria. The three lobes roughly correspond to the southern section of the Murray-Sunset National Park, the Big Desert including Wyperfeld National Park and the Little Desert National Park. The vegetation in the Sunset Country is dominated by Lowan Sands Mallee with some Chenopod Mallee, while the Big and Little Deserts support Sandplain Heath, Mallee Heath, Loamy Sand Mallee, Scrub-pine Woodland, Broombush, Red-Swale Mallee, Yellow Gum Woodland and Heathy Woodland. The Lowan Mallee is Sub-region MDD4 of the Murray Darling Depression Interim Biogeographic Regionalisation of Australia (IBRA) Bioregion. The majority of the Bioregion falls within the Mallee Catchment Management Authority (CMA) area, with the remanding area in the Wimmera CMA. Under the proposed alignment of new Natural Resource & Catchment Authorities (NCRA) to be implemented in 2011, both the Mallee CMA and the Wimmera CMA will form the Wimmera-Mallee NCRA. Around 80% of the Bioregion is located on public land.

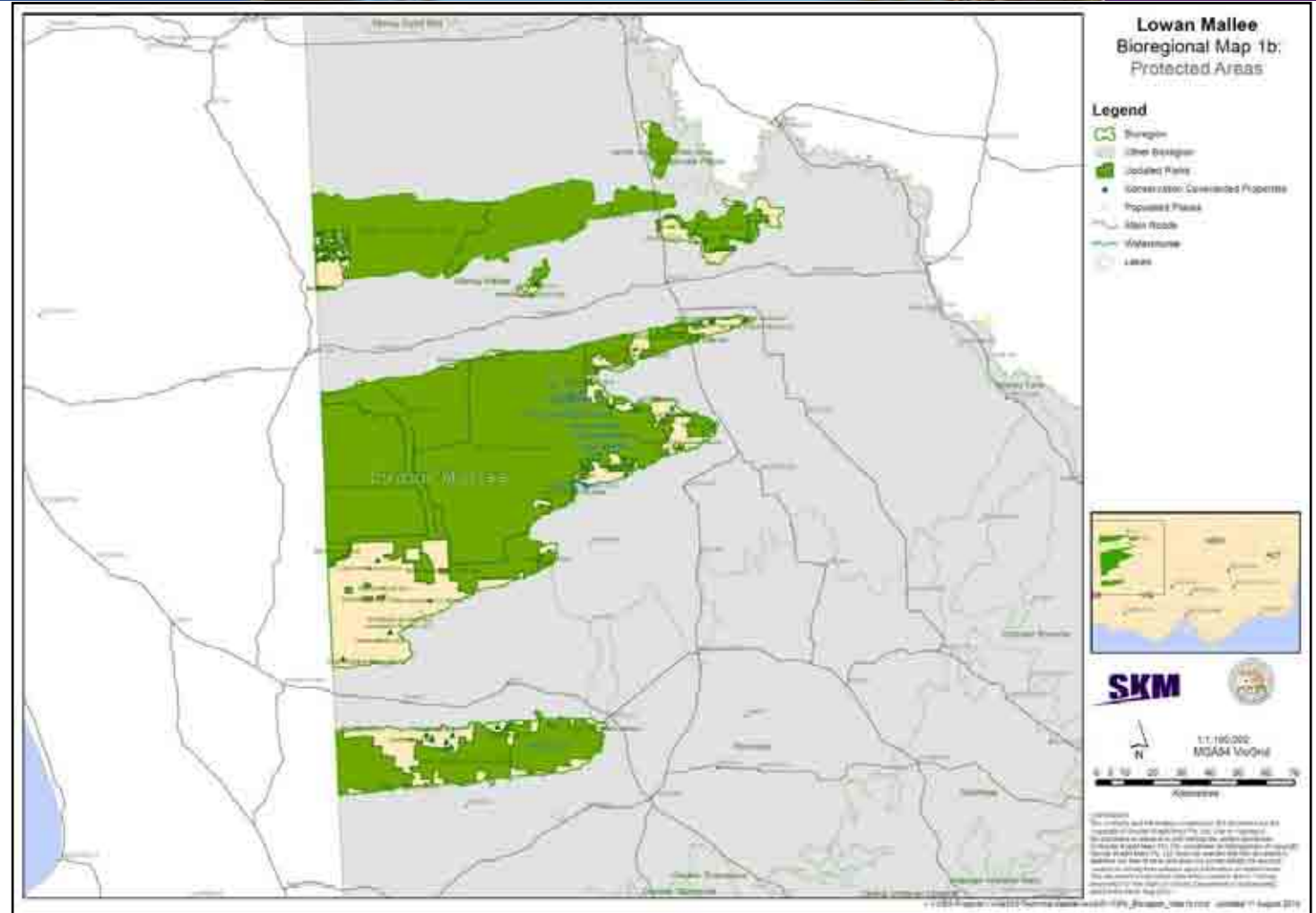


Figure 3-1 Protected Areas – Lowan Mallee

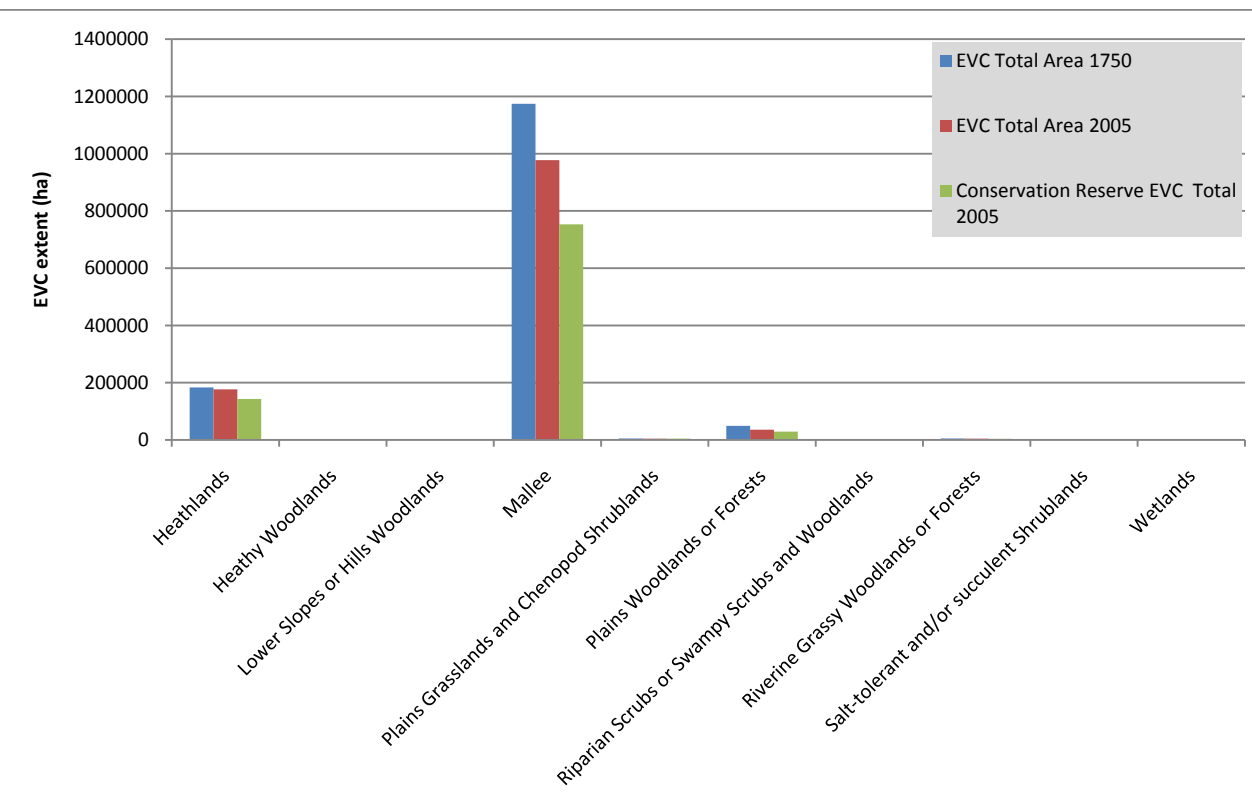


Figure 3-2 EVC Group Breakdown

The Bioregion supports 32 Ecological Vegetation Classes (EVCs) and two (2) EVC complexes or mosaics, of which seven (7) have a Bioregional Conservation Status (BCS) of Endangered. Due to the high proportion of land conserved in National Parks in the Bioregion, nearly 85% of the pre-1750 EVCs have been retained, with 78% of remaining vegetation on conservation land. The Bioregion provides habitat for a number of nationally significant communities and species, including Commonwealth Environment Protection and Biodiversity Conservation (EPBC) Act listed Buloke Woodlands of the Riverina and Murray-Darling Depression Bioregions, listed as Endangered, Golden Sun Moth (*Synemon plana*), Critically Endangered, Black-eared Miner (*Manorina melanotis*) and Mallee Emu-wren (*Stipiturus mallee*), both Endangered, and Western Whipbird (Eastern variant) (*Psophodes nigrogularis leucogaster*) and Growling Grass Frog (*Litoria raniformis*), both Vulnerable. Six (6) migratory species and eight (8) listed marine species, as well as the State Flora and Fauna Guarantee (FFG) Act listed Malleefowl (*Leipoa ocellata*) and Australian Bustard (*Aedeotis australis*) are also known to be in the area. Additionally, the distributions of the Silky Mouse (*Pseudomys apodemoides*) and Western Pygmy-possum (*Cercartetus concinnus*) are restricted to the Big and Little Deserts. Land use in the region is primarily conservation, with large areas of the Bioregion conserved as National Parks, with some agricultural activities occurring outside these areas. Ongoing threats to the region include pest plants and animals and altered fire regimes, which all require proactive management. The region is also expected to become hotter and drier, due to the effects of climate change, with bushfire and drought risks increasingly concurrently.



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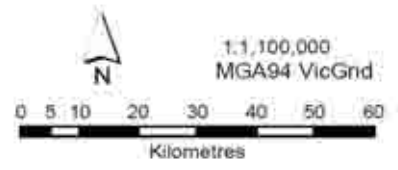
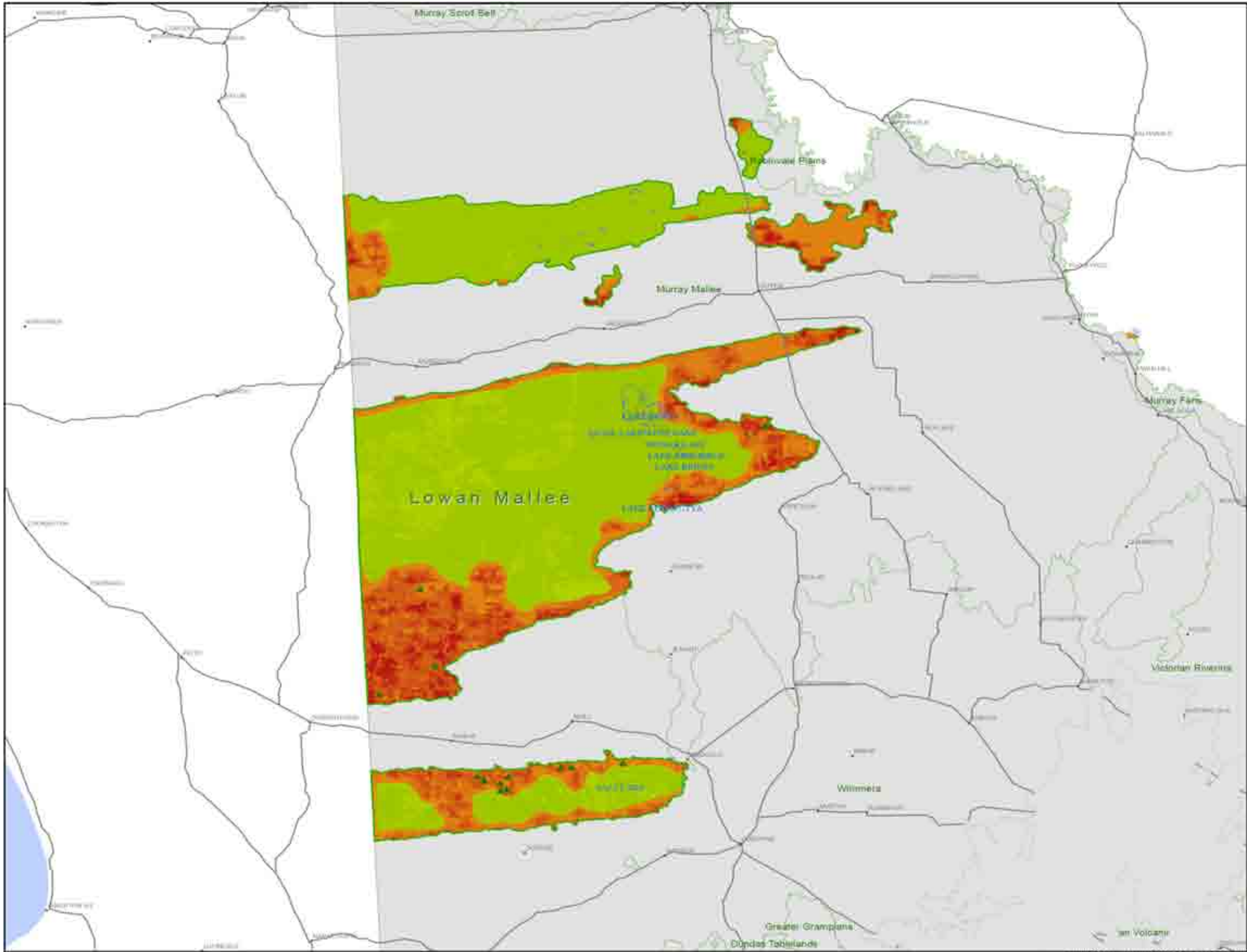
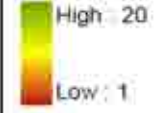


Lowan Mallee Bioregional Map 1a: Landscape Priorities

Legend

- Bioregion
- Other Bioregion
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes

Landscape Importance



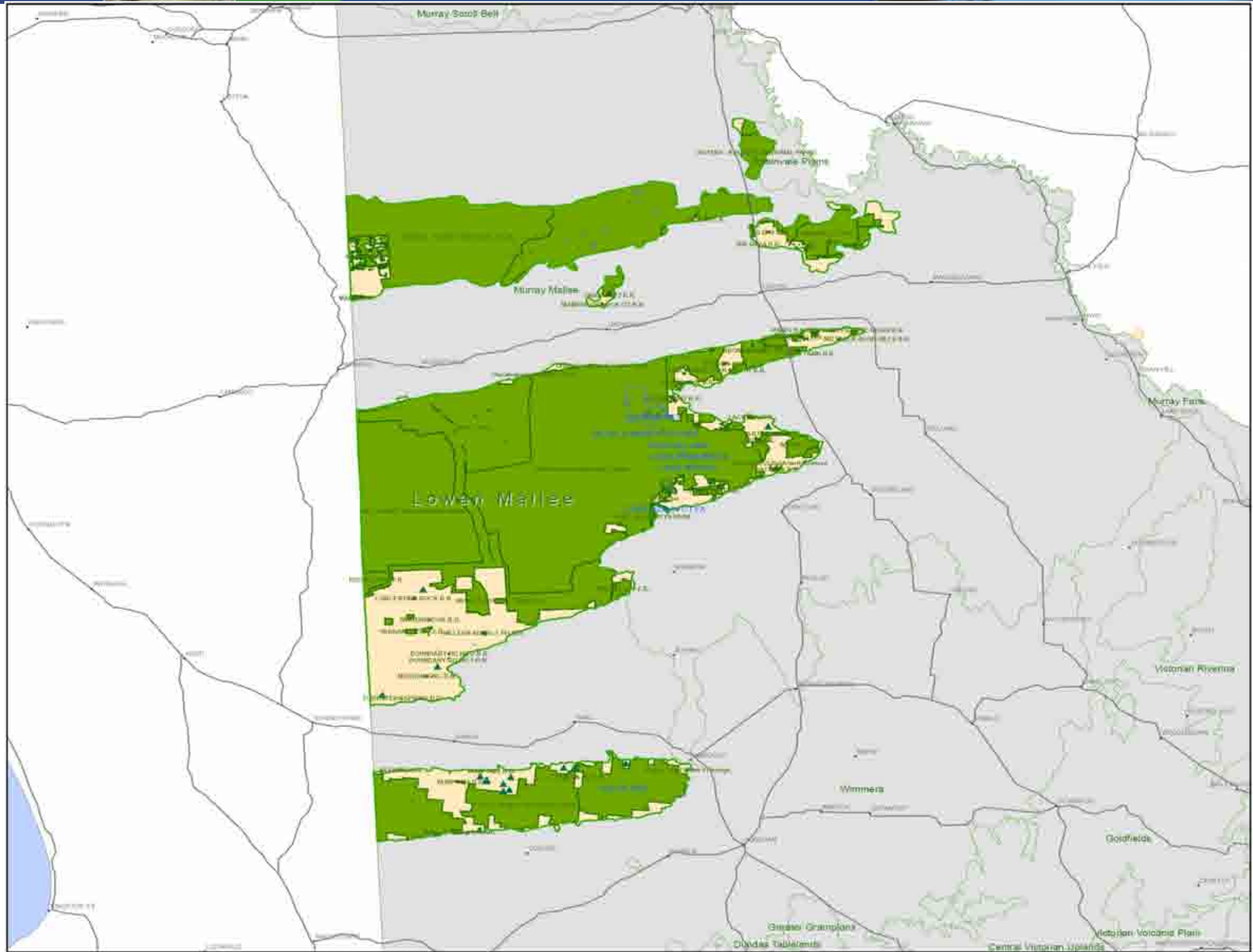
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**Lowan Mallee
Bioregional Map 1b:
Protected Areas**

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes



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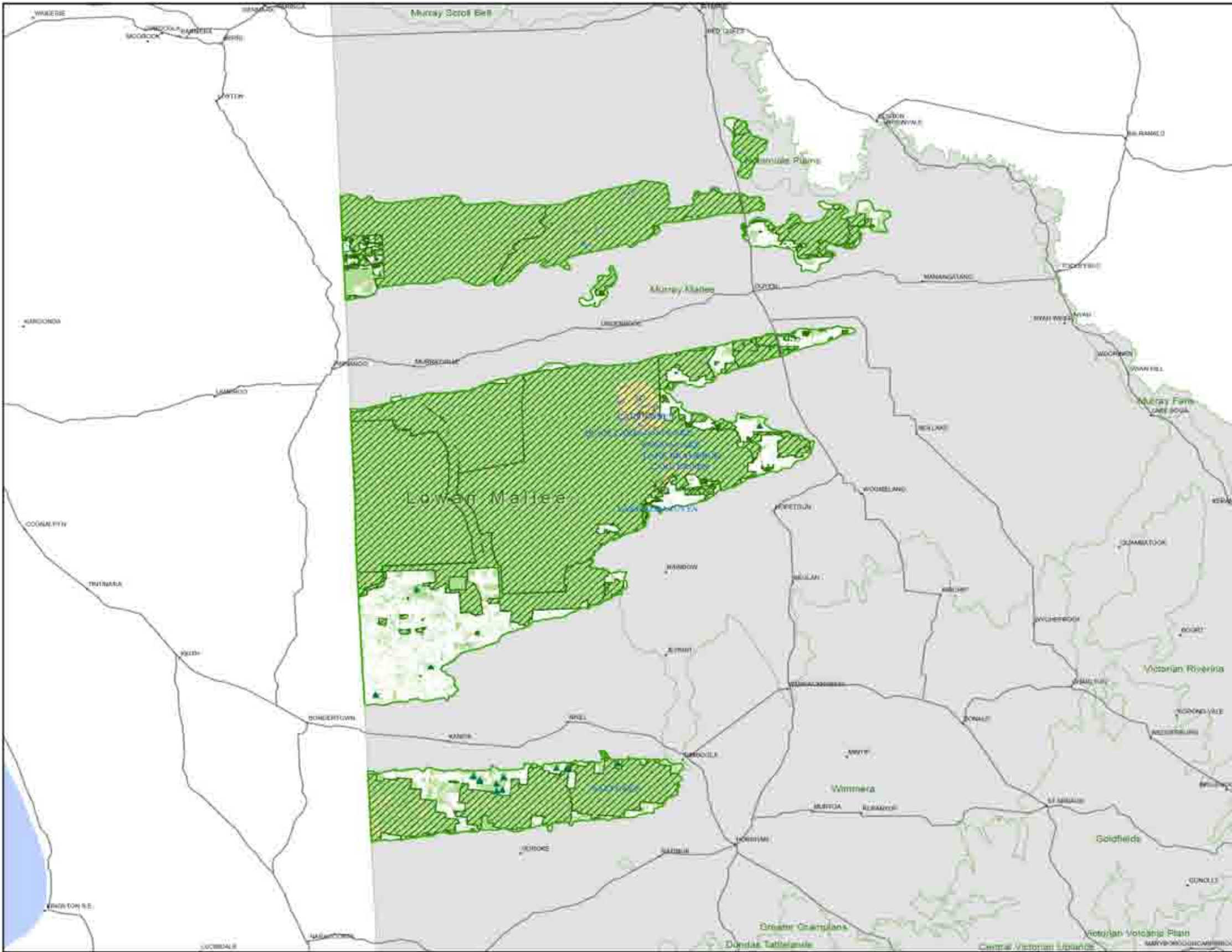
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**Lowan Mallee
Bioregional Map 2a:
Vegetation Conservation
Significance**

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- EVC Bioregional Conservation Status**
- Endangered
 - Vulnerable
 - Depleted
 - Rare
 - Least Concern



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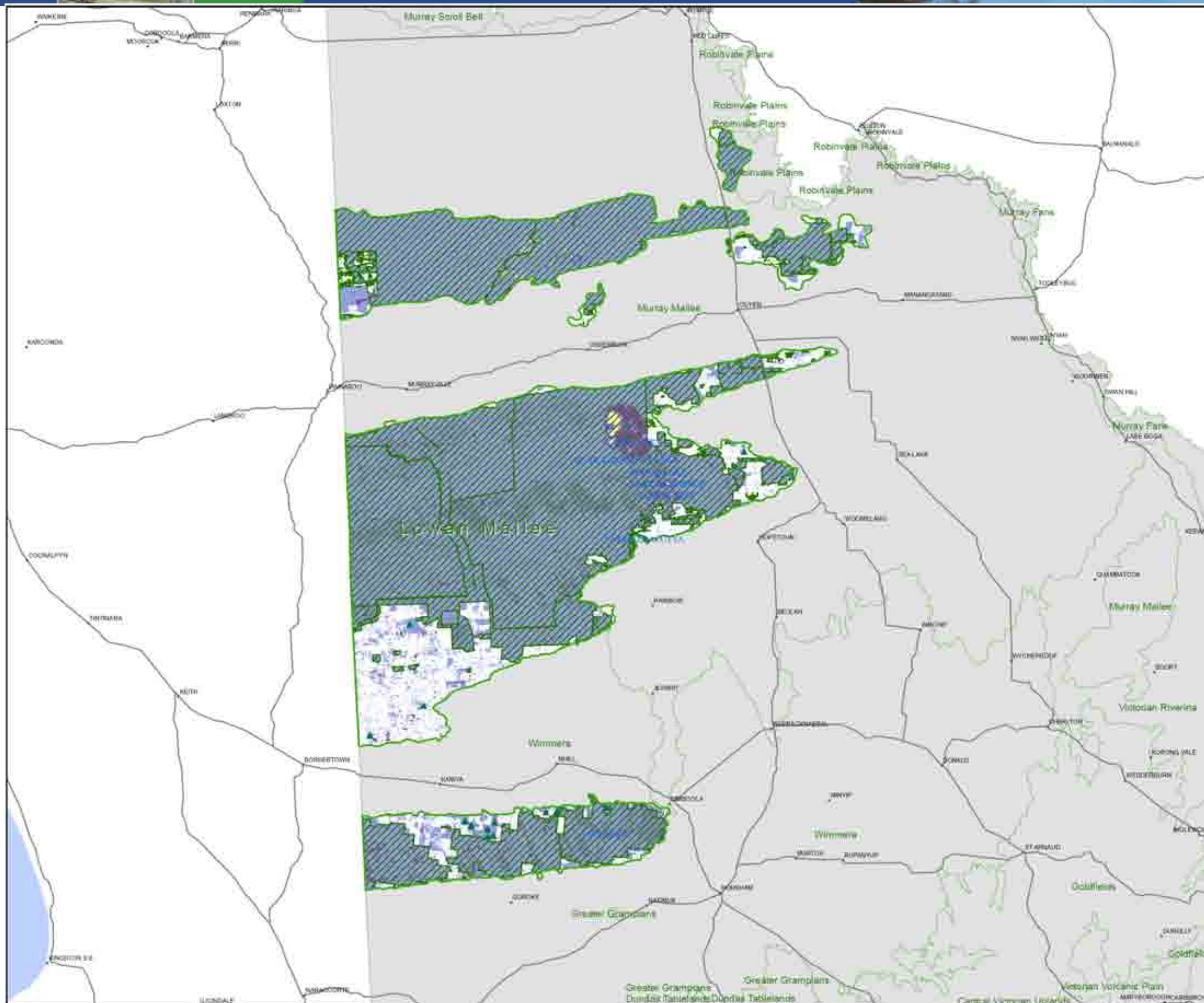
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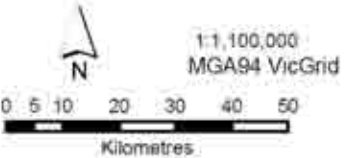


**Lowan Mallee
Bioregional Map 2b:
EVC Groups**

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- EVC Group**
- Coastal Scrubs, Grasslands and Woodlands
 - Healthy Woodlands
 - Lowland Forests
 - Box Ironbark Forests or dry/lower fertility Woodlands
 - Lower Slopes or Hills Woodlands
 - Dry Forests
 - Wet or Damp Forests
 - Riparian Scrubs or Swampy Scrubs and Woodlands
 - Rainforests
 - Montane Grasslands, Shrublands or Woodlands
 - Sub-alpine Grasslands, Shrublands or Woodlands
 - Plains Grasslands and Chenopod Shrublands
 - Plains Woodlands or Forests
 - Riverine Grassy Woodlands or Forests
 - Herb-rich Woodlands
 - Heathlands
 - Mallee
 - Wetlands
 - Salt-tolerant and/or succulent Shrublands
 - Rocky Outcrop or Escarpment Scrubs
 - No native vegetation recorded



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Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Lowan Mallee	48	Heathy Woodland	2	Heathy Woodlands	Least Concern	51	1	0	1	0	0	1	0	21	22	42.7	3.1	1.3
Lowan Mallee	66	Low Rises Woodland	5	Lower Slopes or Hills Woodlands	Endangered	1011	95	1	96	4	0	95	0	218	319	31.5	30.3	9.5
Lowan Mallee	86	Woorinen Sands Mallee	17	Mallee	Least Concern	79256	62147	3766	65913	834	0	62147	0	1973	68720	86.7	95.9	83.2
Lowan Mallee	87	Lowan Sands Mallee	17	Mallee	Least Concern	217393	94599	2285	96884	213	0	94599	0	34738	131835	60.6	73.5	44.6
Lowan Mallee	88	Heathy Mallee	17	Mallee	Least Concern	323732	210109	91608	301718	16	0	210109	0	6369	308102	95.2	97.9	93.2
Lowan Mallee	89	Dunefield Heathland	16	Heathlands	Least Concern	178646	138749	28262	167011	11	0	138749	0	4884	171906	96.2	97.2	93.5
Lowan Mallee	90	Tea-tree Scrub	16	Heathlands	Least Concern	3259	3214	10	3224	0	0	3214	0	19	3243	99.5	99.4	98.9
Lowan Mallee	91	Loamy Sands Mallee	17	Mallee	Least Concern	313447	244896	25234	270129	955	0	244896	0	8963	280047	89.3	96.5	86.2
Lowan Mallee	93	Sandstone Ridge Shrubland	17	Mallee	Least Concern	128499	73862	17852	91714	108	0	73862	0	11512	103334	80.4	88.8	71.4
Lowan Mallee	95	Red Swale Mallee	17	Mallee	Least Concern	60478	28972	10756	39728	327	0	28972	0	2728	42783	70.7	92.9	65.7
Lowan Mallee	96	Ridged Plains Mallee	17	Mallee	Endangered	1352	500	23	523	0	0	500	0	150	674	49.9	77.6	38.7
Lowan Mallee	97	Semi-arid Woodland	13	Plains Woodlands or Forests	Depleted	24358	19413	1098	20511	74	0	19413	0	504	21088	86.6	97.3	84.2
Lowan Mallee	98	Semi-arid Chenopod Woodland	13	Plains Woodlands or Forests	Vulnerable	44	14	0	14	0	0	14	0	5	19	43.4	76.1	33.0
Lowan Mallee	101	Samphire Shrubland	19	Salt-tolerant and/or succulent Shrublands	Least Concern	98	40	8	47	29	0	40	0	10	86	87.9	54.8	48.1
Lowan Mallee	103	Riverine Chenopod Woodland	14	Riverine Grassy Woodlands or Forests	Depleted	4392	3246	51	3297	2	0	3246	0	122	3421	77.9	96.4	75.1
Lowan Mallee	107	Lake Bed Herbland	18	Wetlands	Depleted	12	13	0	13	0	0	13	0	0	13	100.2	100.0	100.2
Lowan Mallee	132	Plains Grassland	12	Plains Grasslands and Chenopod Shrublands	Endangered	42	36	5	41	0	0	36	0	0	41	99.0	99.0	98.0
Lowan Mallee	158	Chenopod Mallee	17	Mallee	Least Concern	18287	17855	133	17989	5	0	17855	0	163	18157	99.3	99.1	98.4
Lowan Mallee	195	Seasonally Inundated Shrubby Woodland	5	Lower Slopes or Hills Woodlands	Least Concern	1176	722	0	722	4	0	722	0	188	913	77.6	79.0	61.4
Lowan Mallee	291	Cane Grass Wetland	18	Wetlands	Endangered	1	1	0	1	0	0	1	0	0	1	92.1	100.0	92.1
Lowan Mallee	292	Red Gum Swamp	18	Wetlands	Endangered	0	2	0	2	0	0	2	0	12	14	0.0	15.9	0.0
Lowan Mallee	292	Red Gum Wetland	18	Wetlands		15	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Lowan Mallee	295	Riverine Grassy Woodland	14	Riverine Grassy Woodlands or Forests	Depleted	12	12	0	12	0	0	12	0	0	12	100.3	100.0	100.3
Lowan Mallee	641	Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	94	52	5	57	17	0	52	0	16	90	96.1	63.3	60.8
Lowan Mallee	676	Salt Paperbark Woodland	19	Salt-tolerant and/or succulent Shrublands	Vulnerable	0	0	0	0	0	0	0	0	0	0	100.2	0.0	0.0
Lowan Mallee	710	Damp Heathland	16	Heathlands	Least Concern	1410	1373	0	1373	0	0	1373	0	37	1410	100.0	97.4	97.4
Lowan Mallee	741	Salt Paperbark Woodland/Samphire Shrubland Mosaic	19	Salt-tolerant and/or succulent Shrublands	Vulnerable	486	477	0	477	0	0	477	0	8	486	100.0	98.3	98.3
Lowan Mallee	803	Plains Woodland	13	Plains Woodlands or Forests	Endangered	384	13	0	13	0	0	13	0	92	105	27.4	12.1	3.3
Lowan Mallee	813	Intermittent Swampy Woodland	14	Riverine Grassy Woodlands or Forests	Vulnerable	60	60	0	60	0	0	60	0	0	60	100.1	100.0	100.1
Lowan Mallee	822	Intermittent Swampy Woodland/Riverine Grassy Woodland Complex	14	Riverine Grassy Woodlands or Forests	Vulnerable	806	794	0	794	0	0	794	0	5	799	99.1	99.4	98.5
Lowan Mallee	823	Lignum Swampy Woodland	14	Riverine Grassy Woodlands or Forests	Depleted	26	0	0	0	0	0	0	10	0	10	36.8	0.0	0.0
Lowan Mallee	824	Woorinen Mallee	17	Mallee	Least Concern	29168	19572	2298	21870	314	0	19572	0	782	22966	78.7	95.2	75.0
Lowan Mallee	826	Plains Savannah	12	Plains Grasslands and Chenopod Shrublands	Endangered	205	57	1	58	0	0	57	0	11	69	33.5	84.0	28.2
Lowan Mallee	829	Chenopod Grassland	12	Plains Grasslands and Chenopod Shrublands	Depleted	4600	4346	33	4379	0	0	4346	0	32	4411	95.9	99.3	95.2
Lowan Mallee	882	Shallow Sands Woodland	13	Plains Woodlands or Forests	Depleted	24535	9487	142	9630	33	0	9487	0	4958	14621	59.6	65.9	39.2
Lowan Mallee	981	Parilla Mallee	17	Mallee	Endangered	2529	444	128	572	12	0	444	0	278	862	34.1	66.3	22.6
Total						1,419,862	935,173	183,700	1,118,872	2,959	0	935,173	10	78,798	1,200,639	84.6%	77.9%	65.9%

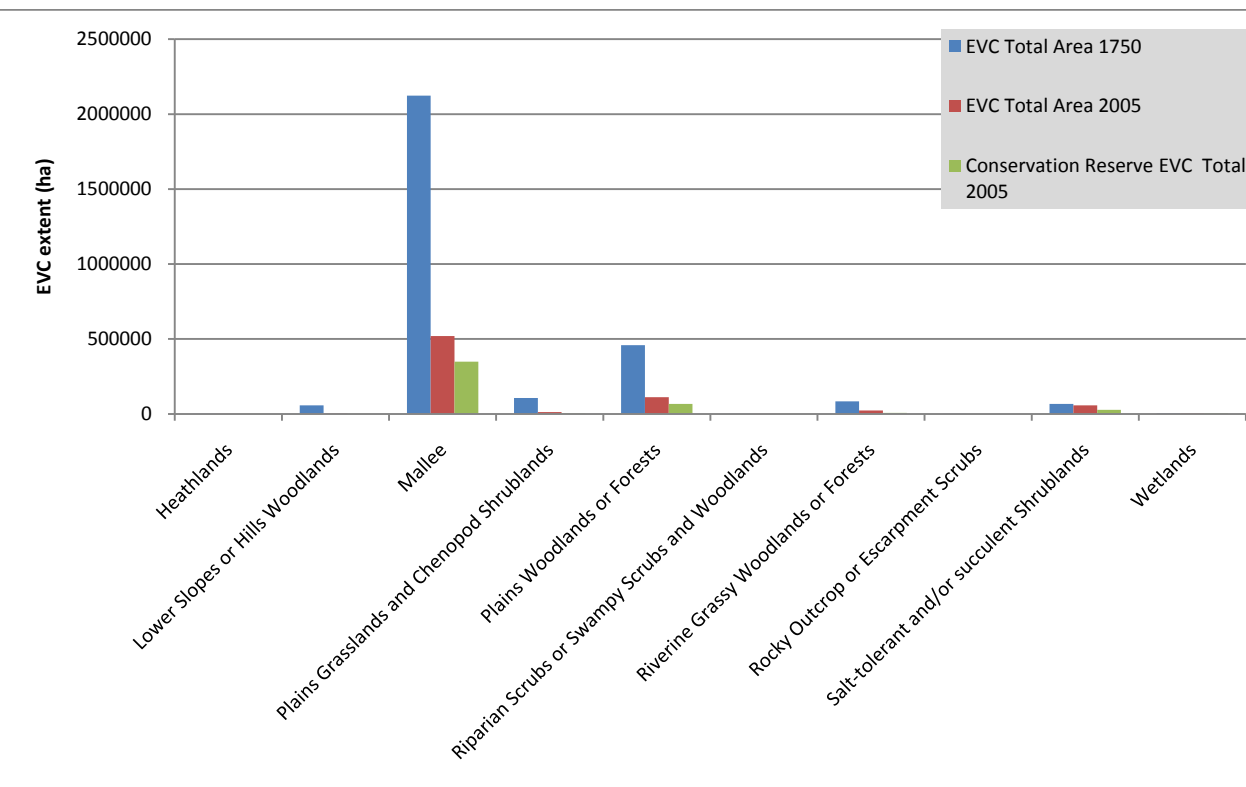
4. Murray Mallee

Bioregion size: 2 816 503 ha
 Native vegetation cover: 734 748 ha (26%)
 Conservation reserve cover (excludes State Forests): 459 558 ha (63%)

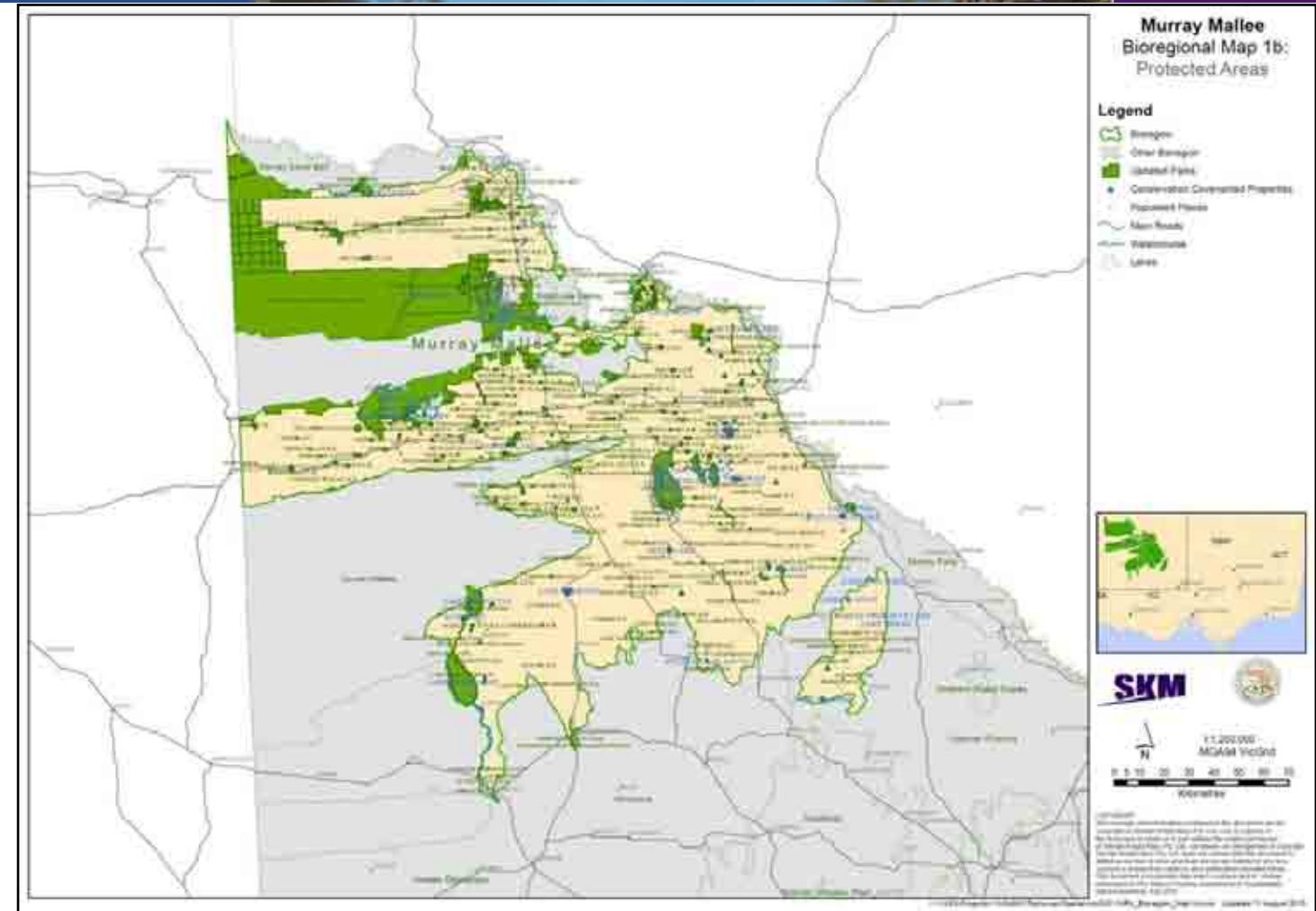
Conservation Priorities

Very little native vegetation remains on unprotected public land in the Bioregion. Conservation efforts should, therefore, focus on increasing connectivity between the remaining native vegetation and increasing the percentage of Endangered EVCS under protection, such as EVC 66 – Low Rises Woodland, EVC 96 - Ridged Plains Mallee, EVC 826 - Plains Savannah.

The Murray Mallee Bioregion (MuM) covers approximately 2 816 503 ha in north-west Victoria, stretching from the north of Horsham to the Victorian border. Major towns within the region are Mildura and Ouyen. Sandy plains in the region are dominated by East/West-Dune Mallee with some Chenopod Mallee and Shallow-Sand Mallee, while plains, drainage lines and groundwater discharge landscapes support Gypseous Plains Shrubland, Saline Shrubland (Raak), Plains Grassland and Drainage-line Grassy Woodland. Lakes in the region include Lack Tyrrell, Lake Hindmarsh and the Hattah Lakes, while the Murray River flows on the northern boundary of the Bioregion. The Murray Mallee is Sub-region MDD2 of the Murray Darling Depression Interim Biogeographic Regionalisation of Australia (IBRA) Bioregion. The majority of the Bioregion falls within the Mallee Catchment Management Authority (CMA) area, with small areas of the Bioregion falling in both the Wimmera CMA and the North Central CMA. Under the proposed alignment of new Natural Resource & Catchment Authorities (NRCA) to be implemented in 2011, the Mallee CMA and the Wimmera CMA will form the Wimmera-Mallee NRCA and the North Central CMA will be part of the Northern Rivers NRCA.

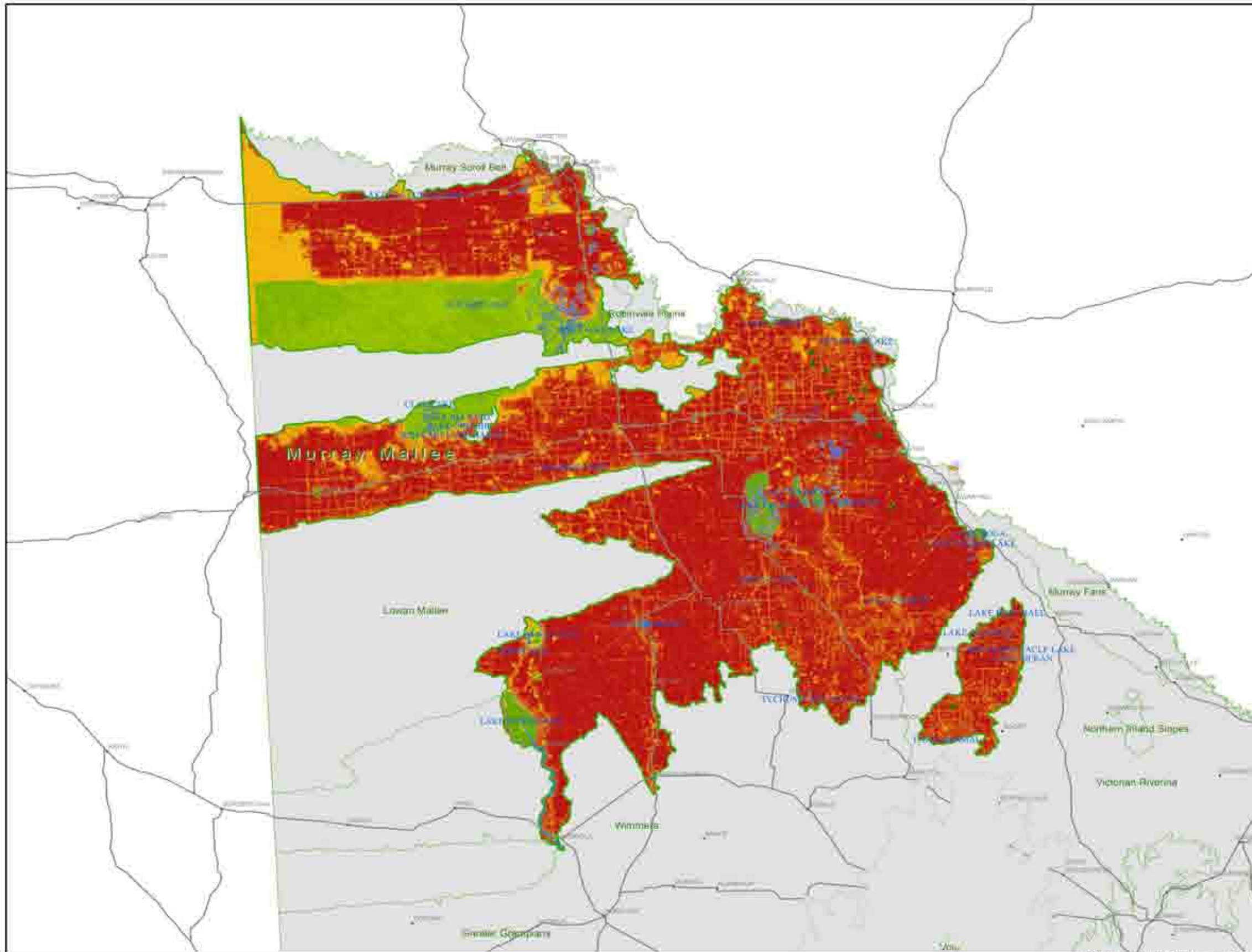


■ Figure 4-1 EVC Group Breakdown



■ Figure 4-2 Protected Areas – Murray Mallee

Part of the Murray-Sunset National Park and the Hattah-Kulkyne National Park, containing the Hattah Lakes Ramsar site, are located within the region. The Lake Albacutya Ramsar site is also within the region. The Bioregion supports 45 Ecological Vegetation Classes (EVCs), of which eight (8) have a Bioregional Conservation Status (BCS) of Endangered. The area has been largely cleared with only 26% of the pre-1750 EVC remaining. A number of nationally significant communities and species are present in the area including the Commonwealth Environment Protection and Biodiversity Conservation (EPBC) Act listed Buloke Woodlands of the Riverina and Murray Darling Depression Bioregions, listed as Endangered, Black-eared Miner (*Manorina melanotis*), listed as Endangered, Mallee Emu-wren (*Stipiturus mallee*), listed as Endangered, Western Whipbird (Eastern Variant) (*Psophodes nigrogularis leucogaster*), listed as Vulnerable, and Growling Grass Frog (*Litoria raniformis*), listed as Vulnerable. Eight (8) migratory species and 10 listed marine species are known to occur in the area. State Flora and Fauna Guarantee (FFG) Act listed Mallefowl (*Leipoa acellata*) is restricted to the Mallee Bioregions. Land use in the Bioregion is dominated by cereal and coarse grain cropping and livestock industries with areas of irrigated horticulture along the Murray River. Ongoing threats to the Bioregion include wind erosion, grazing pressure, changed hydrological regimes, changed fire regimes, pest plants and animals and salinity. Climate change also poses a significant threat to the region, as it is projected to become hotter and drier, with increasing fire risk and less water available from the Murray River, which is likely to compound the biodiversity losses of the region.



Murray Mallee
Bioregional Map 1a:
Landscape Priorities

Legend

- Bioregion
 - Other Bioregion
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- Landscape Importance**
- High : 20
 - Low : 1



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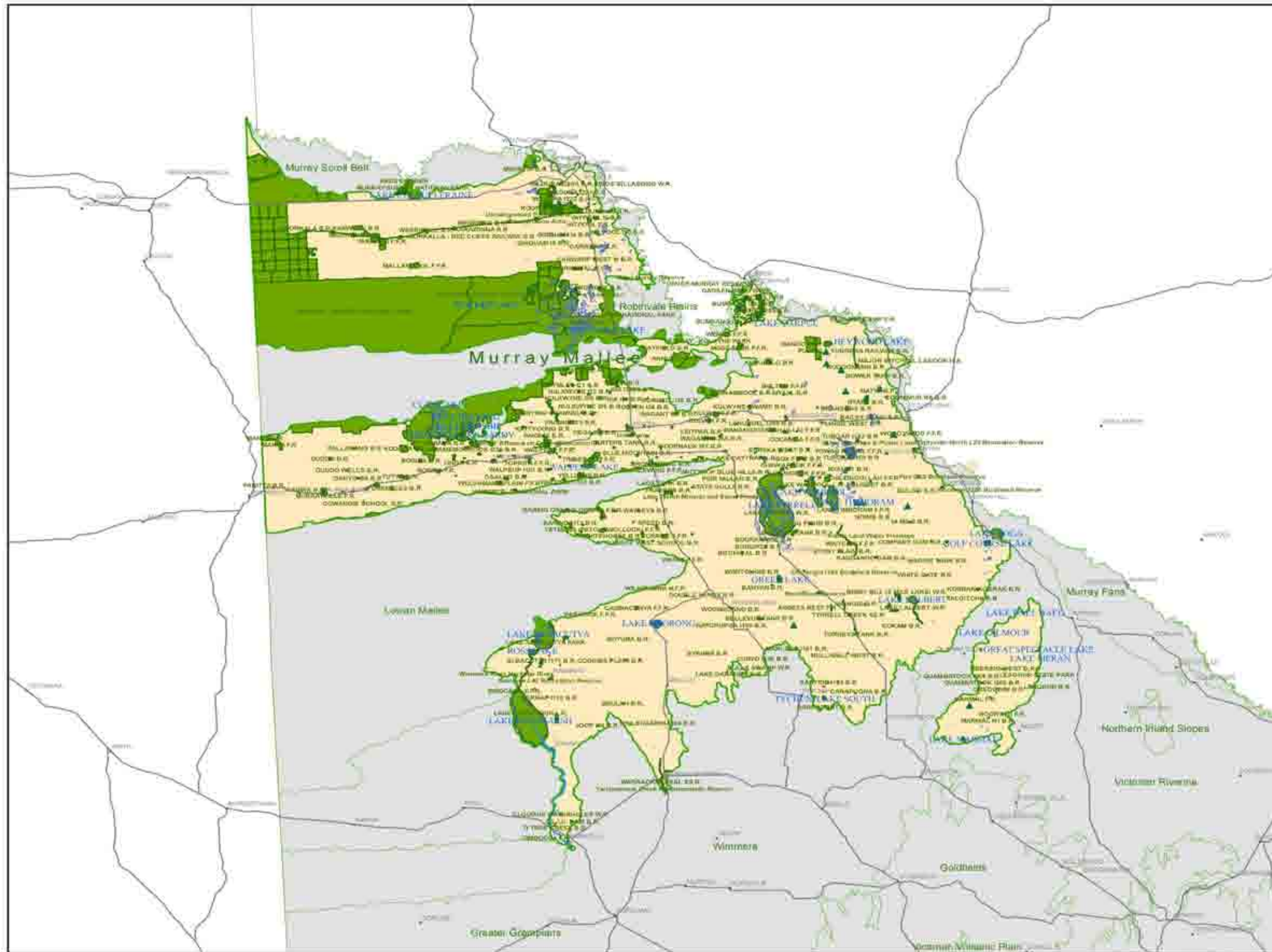
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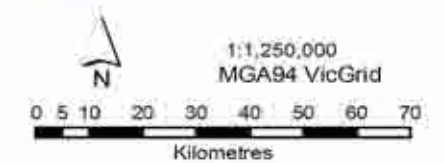
**Murray Mallee
Bioregional Map 1b:
Protected Areas**

Legend

- Bioregion
- Other Bioregion
- Updated Parks
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes



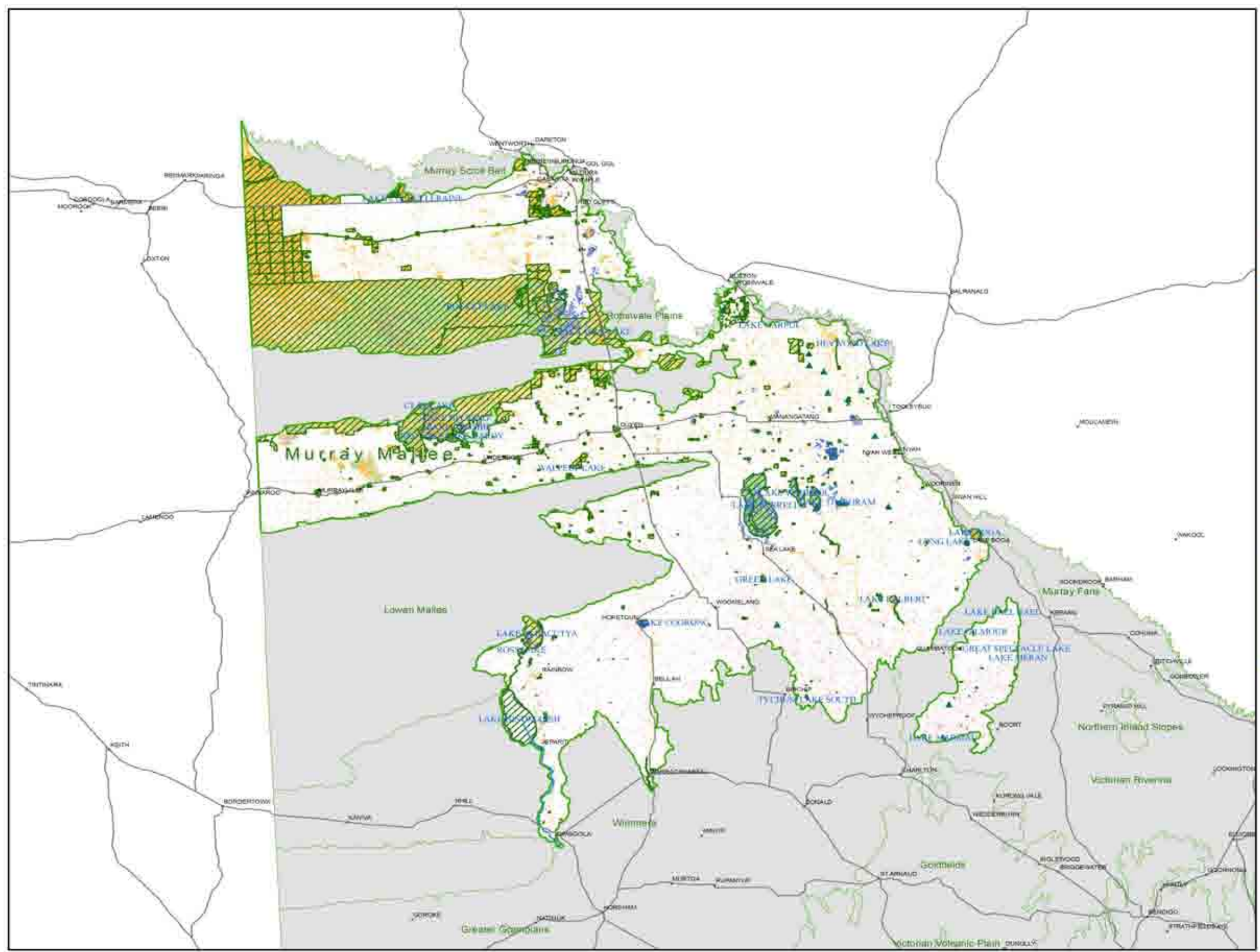
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**Murray Mallee
Bioregional Map 2a:
Vegetation Conservation
Significance**

Legend

- Bioregion
- Other Bioregion
- Updated Parks
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes

EVC Bioregional Conservation Status

- Endangered
- Vulnerable
- Depleted
- Rare
- Least Concern



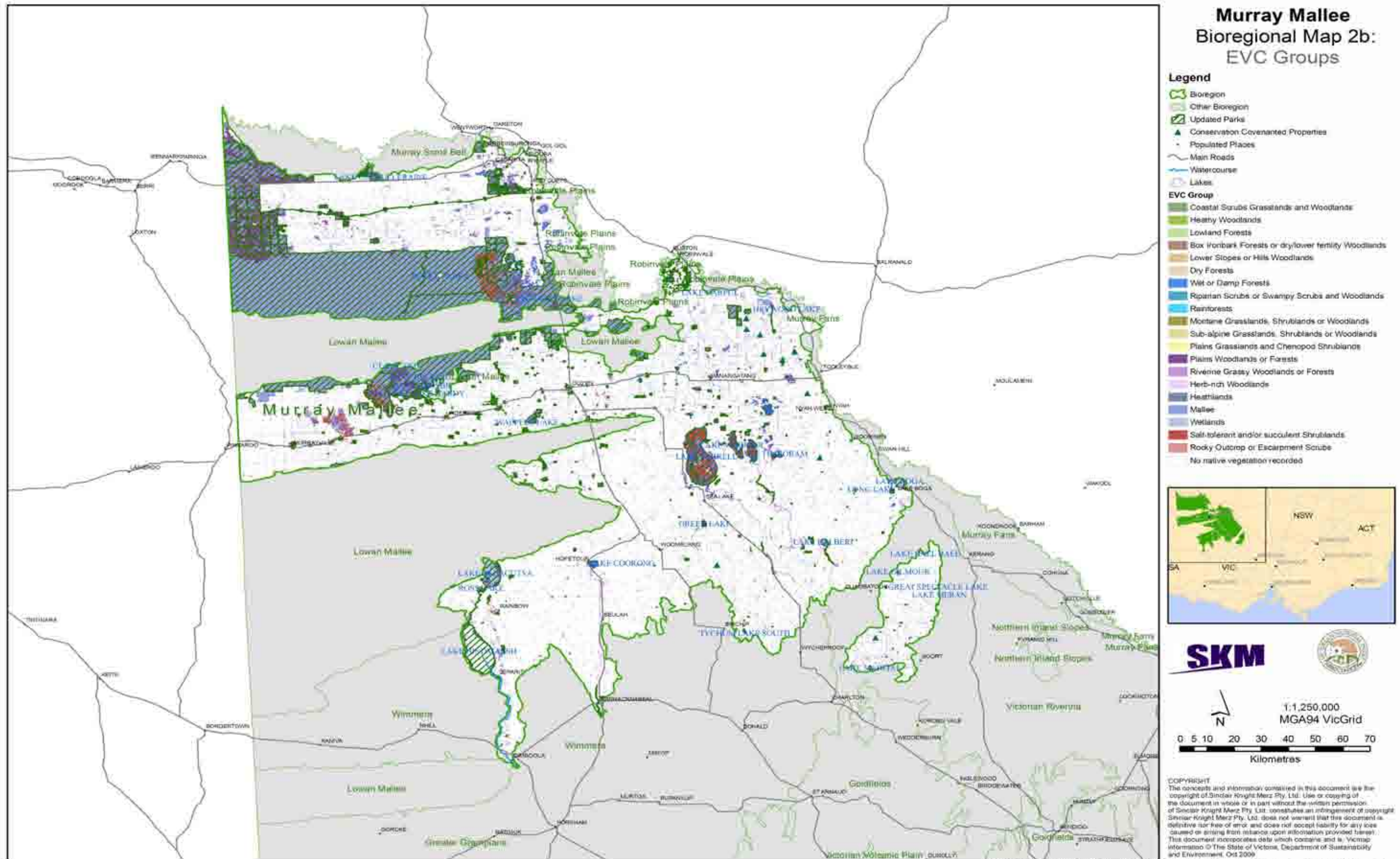
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Kilometres

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Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Murray Mallee	28	Rocky Outcrop Shrubland	20	Rocky Outcrop or Escarpment Scrubs	not applicable	19	0	0	0	0	0	0	1	0	1	3.4	0.0	0.0
Murray Mallee	66	Low Rises Woodland	5	Lower Slopes or Hills Woodlands	Endangered	56731	333	13	346	47	0	333	0	3295	3689	6.5	9.4	0.6
Murray Mallee	86	Woorinen Sands Mallee	17	Mallee	Depleted	391080	119847	14280	134127	864	0	119847	0	19789	154780	39.6	86.7	34.3
Murray Mallee	87	Lowan Sands Mallee	17	Mallee	Least Concern	781	18	18	36	1	0	18	0	234	271	34.7	13.3	4.6
Murray Mallee	88	Heathy Mallee	17	Mallee	Least Concern	2139	243	113	356	6	0	243	0	358	721	33.7	49.4	16.7
Murray Mallee	89	Dunefield Heathland	16	Heathlands	Least Concern	533	26	37	63	1	0	26	0	49	113	21.2	55.4	11.7
Murray Mallee	91	Loamy Sands Mallee	17	Mallee	Least Concern	157191	89220	5441	94660	220	0	89220	0	3980	98860	62.9	95.8	60.2
Murray Mallee	93	Sandstone Ridge Shrubland	17	Mallee	Least Concern	15312	9400	1346	10747	84	0	9400	0	800	11631	76.0	92.4	70.2
Murray Mallee	95	Red Swale Mallee	17	Mallee	Least Concern	354	20	6	26	2	0	20	0	23	51	14.4	50.7	7.3
Murray Mallee	96	Ridged Plains Mallee	17	Mallee	Endangered	468967	1120	178	1298	671	0	1120	0	28156	30125	6.4	4.3	0.3
Murray Mallee	97	Semi-arid Woodland	13	Plains Woodlands or Forests	Vulnerable	357214	55657	10261	65918	3645	184	55841	0	22530	92276	25.8	71.4	18.5
Murray Mallee	98	Semi-arid Chenopod Woodland	13	Plains Woodlands or Forests	Vulnerable	46827	6554	1282	7836	429	257	6811	0	3117	11639	24.9	67.3	16.7
Murray Mallee	101	Samphire Shrubland	19	Salt-tolerant and/or succulent Shrublands	Least Concern	47635	13900	13875	27775	2671	0	13900	0	7734	38179	80.1	72.7	58.3
Murray Mallee	102	Low Chenopod Shrubland	12	Plains Grasslands and Chenopod Shrublands	Depleted	8123	3361	225	3587	933	1	3362	0	581	5101	62.8	70.3	44.2
Murray Mallee	103	Riverine Chenopod Woodland	14	Riverine Grassy Woodlands or Forests	Depleted	64115	1813	186	1999	1613	0	1813	0	7724	11336	17.7	17.6	3.1
Murray Mallee	104	Lignum Swamp	18	Wetlands	Vulnerable	0	360	14	374	7	0	360	0	129	510	0.0	73.3	0.0
Murray Mallee	104	Lignum Wetland	18	Wetlands		694	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Murray Mallee	106	Grassy Riverine Forest	14	Riverine Grassy Woodlands or Forests		7	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Murray Mallee	106	Grassy Riverine Forest	14	Riverine Grassy Woodlands or Forests	Depleted	7	44	0	44	0	0	44	0	3	47	661.6	93.7	620.3
Murray Mallee	107	Lake Bed Herbland	18	Wetlands	Depleted	4663	4343	0	4343	26	0	4343	0	2	4371	93.7	99.4	93.1
Murray Mallee	132	Plains Grassland	12	Plains Grasslands and Chenopod Shrublands	Endangered	3869	33	0	33	24	0	33	0	253	311	8.0	10.8	0.9
Murray Mallee	158	Chenopod Mallee	17	Mallee	Vulnerable	229209	22410	18242	40652	1902	360	22770	0	17976	60890	26.6	66.8	17.7
Murray Mallee	200	Shallow Freshwater Marsh	18	Wetlands	Vulnerable	0	17	0	17	0	0	17	0	1	18	99765.2	91.9	91726.0
Murray Mallee	295	Riverine Grassy Woodland	14	Riverine Grassy Woodlands or Forests	Depleted	32	104	0	104	0	0	104	0	16	120	375.2	86.7	325.2
Murray Mallee	641	Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	300	22	9	31	237	0	22	0	22	290	96.5	10.7	10.3
Murray Mallee	676	Salt Paperbark Woodland	19	Salt-tolerant and/or succulent Shrublands	Vulnerable	29	0	0	0	0	0	0	29	0	29	98.4	0.0	0.0
Murray Mallee	717	Saline Lake Aggregate	19	Salt-tolerant and/or succulent Shrublands	Least Concern	0	11216	0	11216	4510	0	11216	0	1133	16859	0.0	66.5	0.0
Murray Mallee	717	Saline Lake Mosaic	19	Salt-tolerant and/or succulent Shrublands		16887	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Murray Mallee	718	Freshwater Lake Aggregate	18	Wetlands	Vulnerable	0	936	0	936	0	0	936	0	2	938	0.0	99.8	0.0
Murray Mallee	718	Freshwater Lake Mosaic	18	Wetlands		941	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Murray Mallee	741	Salt Paperbark Woodland/Samphire Shrubland Mosaic	19	Salt-tolerant and/or succulent Shrublands		6	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Murray Mallee	803	Plains Woodland	13	Plains Woodlands or Forests	Endangered	31052	123	0	123	57	0	123	0	2127	2307	7.4	5.3	0.4
Murray Mallee	808	Lignum Shrubland	14	Riverine Grassy Woodlands or Forests	Least Concern	22	140	0	140	0	0	140	0	22	161	725.4	86.5	627.6
Murray Mallee	809	Floodplain Grassy Wetland	18	Wetlands	Endangered	1	1	0	1	0	0	1	0	0	1	101.2	93.5	94.6
Murray Mallee	810	Floodway Pond Herbland	18	Wetlands	Vulnerable	9	11	0	11	4	0	11	0	2	17	201.6	65.4	131.9
Murray Mallee	811	Grassy Riverine Forest/Floodway Pond Herbland Complex	14	Riverine Grassy Woodlands or Forests	Depleted	6	40	0	40	0	0	40	0	1	41	701.3	97.1	680.8
Murray Mallee	813	Intermittent Swampy Woodland	14	Riverine Grassy Woodlands or Forests	Vulnerable	7048	3365	4	3369	79	0	3365	0	731	4179	59.3	80.6	47.8
Murray Mallee	816	Sedgy Riverine Forest	14	Riverine Grassy Woodlands or Forests	Vulnerable	23	4	0	4	0	0	4	0	7	10	44.7	35.6	15.9
Murray Mallee	818	Shrubby Riverine Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	25	148	0	148	5	0	148	0	4	157	634.6	94.1	597.1
Murray Mallee	821	Tall Marsh	18	Wetlands	Least Concern	1	14	0	14	0	0	14	0	0	14	1203.5	100.0	1203.5
Murray Mallee	822	Intermittent Swampy Woodland/Riverine Grassy Woodland Complex	14	Riverine Grassy Woodlands or Forests	Vulnerable	1989	31	0	31	815	0	31	0	449	1295	65.1	2.4	1.6

Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Murray Mallee	823	Lignum Swampy Woodland	14	Riverine Grassy Woodlands or Forests	Vulnerable	10435	1385	82	1467	2183	0	1385	0	2656	6305	60.4	23.3	14.1
Murray Mallee	824	Woorinen Mallee	17	Mallee	Vulnerable	689735	98868	5841	104709	1390	0	98868	0	41116	147214	21.3	71.1	15.2
Murray Mallee	826	Plains Savannah	12	Plains Grasslands and Chenopod Shrublands	Endangered	92349	158	7	165	262	0	158	0	5636	6063	6.6	2.7	0.2
Murray Mallee	828	Semi-arid Parilla Woodland	13	Plains Woodlands or Forests	Vulnerable	23130	3733	133	3865	292	0	3733	0	1568	5726	24.8	67.5	16.7
Murray Mallee	829	Chenopod Grassland	12	Plains Grasslands and Chenopod Shrublands	Endangered	2295	324	77	401	26	0	324	0	125	551	24.0	72.7	17.5
Murray Mallee	882	Shallow Sands Woodland	13	Plains Woodlands or Forests	Endangered	170	5	7	12	1	0	5	0	17	30	17.6	39.6	7.0
Murray Mallee	940	Samphire Shrubland/Saline Lake Mosaic	19	Salt-tolerant and/or succulent Shrublands	Least Concern	2172	2108	0	2108	21	0	2108	0	35	2163	99.6	97.4	97.0
Murray Mallee	942	Lignum Swampy Woodland/Lake Bed Herbland Mosaic	14	Riverine Grassy Woodlands or Forests	Depleted	13	9	0	9	0	0	9	0	4	13	100.1	70.0	70.1
Murray Mallee	981	Parilla Mallee	17	Mallee	Endangered	168302	7296	1116	8412	182	0	7296	0	6753	15347	9.1	54.8	5.0
Total						2,902,442	458,757	72,792	531,549	23,209	800	459,558	29	179,159	734,748	25.3%	62.5%	15.8%

5. Wimmera

Bioregion size: 2 011 321 ha
 Native vegetation cover: 338 638 ha (17%)
 Conservation reserve cover (excludes State Forests): 46 027 ha (14%)

Conservation Priorities

Little native vegetation remains on unprotected public land. What remains is largely in the Plains Woodland or Forest and Heathy Forest EVC groups located within State Forests. Several Endangered EVCs are present within these groups, so increased conservation protection for these areas are a conservation priority. The Bioregion is highly fragmented and would benefit from increasing connectivity between native vegetation remnant patches.

The Wimmera Bioregion (Wim) covers approximately 2 011 321 ha, stretching from the western Victorian border towards Wycheproof. Horsham is located centrally within the area. The eastern part of the Bioregion is typified by flat to gently undulating plains, supporting Plains Woodland, Plains Grassy Woodland, Plains Grassland, Red Gum Wetland and Grassy Woodland. In the west, the landscape is dominated by ancient stranded beach ridges with interspersed with clay plains, supporting Heathy Woodland and Shallow Sands Woodland. The Wimmera Bioregion is Sub-region MDD5 of the Murray Darling Depression Interim Biogeographic Regionalisation of Australia (IBRA) Bioregion. The majority of the Bioregion falls within the Wimmera Catchment Management Authority (CMA) area, with small areas of the region falling within both the North Central CMA and the Mallee CMA. Under the proposed alignment of new Natural Resource & Catchment Authorities (NRCA) to be implemented in 2011, the Wimmera CMA and the Mallee CMA will form the Wimmera-Mallee NRCA, while the North Central CMA will become part of the Northern Rivers NRCA.

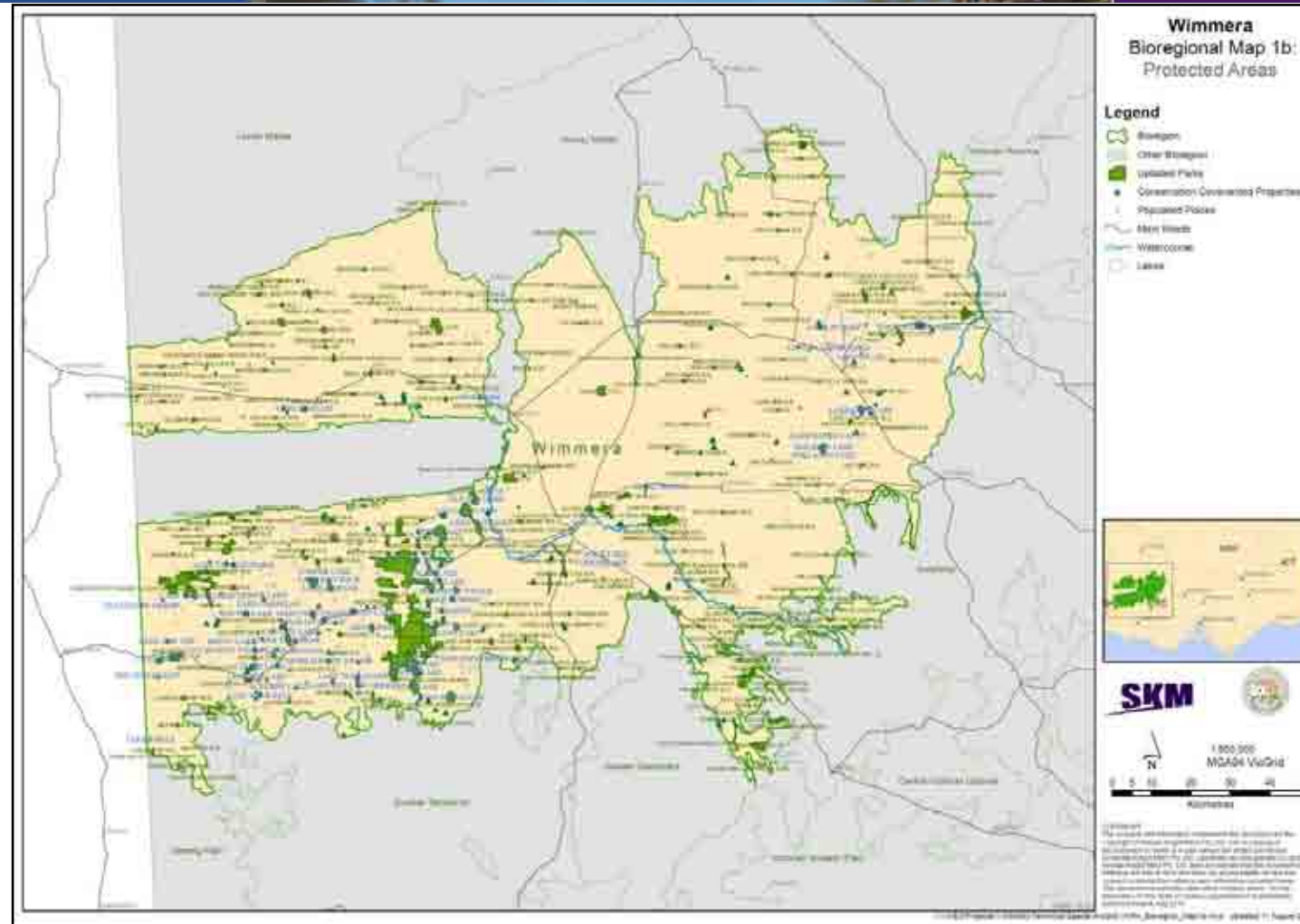


Figure 5-2 Protected Areas – Wimmera

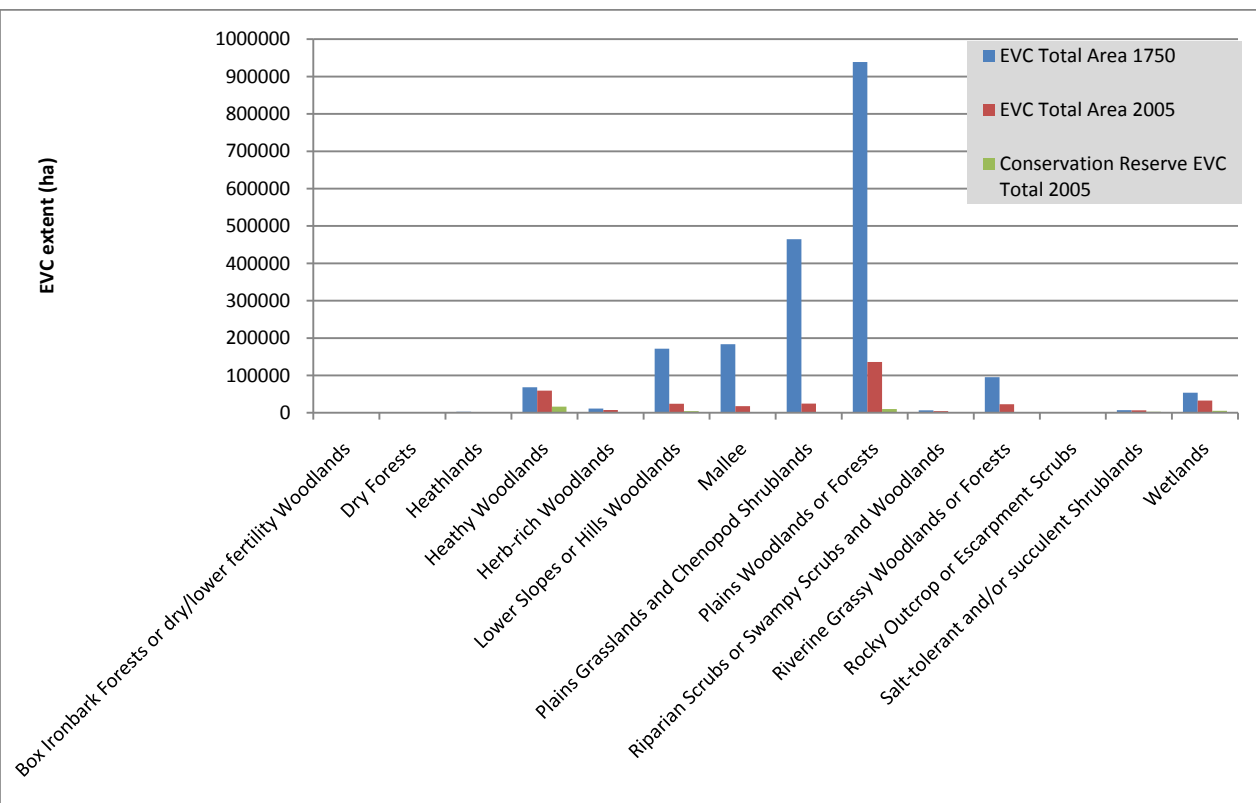
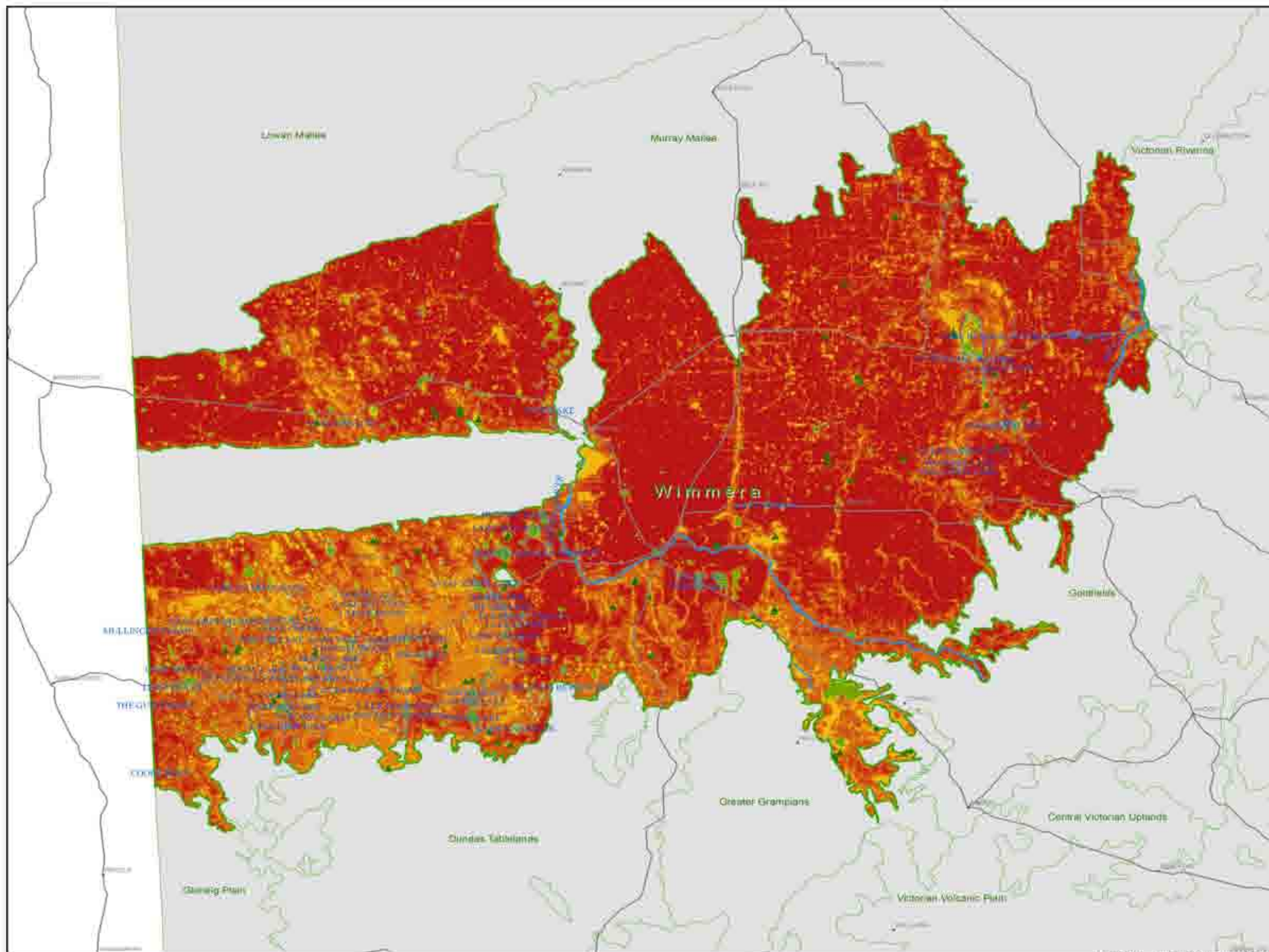


Figure 5-1 EVC Group Breakdown

The Bioregion supports 130 Ecological Vegetation Classes (EVCs), of which 57 have a Bioregional Conservation Status (BCS) of Endangered. However, extensive land clearing for agriculture has taken place within the Bioregion, with only 17% of pre-1750 EVCs remaining in the area and only 14% of the remaining vegetation protected on conservation land. EVC 803 – Plains Woodland covers the largest area (78 880 ha) of all remaining EVCs and is listed as Endangered. However, this represents only 10% of the pre-1750 EVC and just 5% of the remaining vegetation is protected. The Bioregion is known to support a number of species listed under the Commonwealth Environment Protection and Biodiversity Conservation (EPBC) Act, including Wimmera Rice-flower (*Pimelea spinescens* subsp. *pubiflora*) and Striped Legless Lizard (*Delma impar*), listed as Vulnerable. Five (5) migratory species and eight (8) listed marine species are also known in the area, as well as State Flora and Fauna Guarantee (FFG) Act listed species including Malleefowl (*Leipoa ocellata*), Brolga (*Grus rubicunda*) and Western Whipbird (Eastern variant) (*Psophodes nigrogularis leucogaster*). Land use is predominantly agricultural cropping and grazing, with irrigated horticulture occurring around the Wimmera River. The main ongoing threats to the Bioregion are invasion by introduced grasses and further clearing, while other threats include grazing pressure, expansion of irrigation and drift from aerial spraying. Climate change will pose a significant threat to the region with a hotter, drier climate projected. This will increase the bushfire risk in the region and significantly reduce runoff into the Wimmera River.



Wimmera
Bioregional Map 1a:
Landscape Priorities

Legend

- Bioregion
 - Other Bioregion
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- Landscape Importance**
- High : 20
 - Low : 1

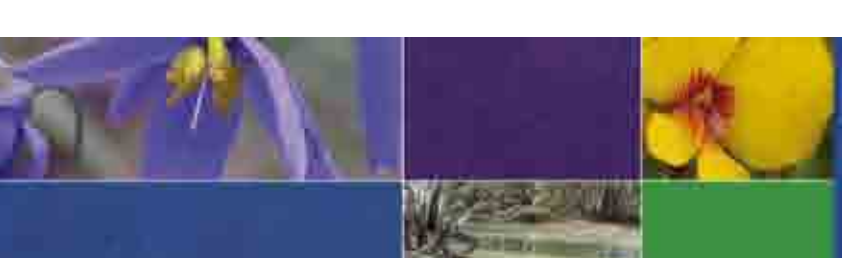


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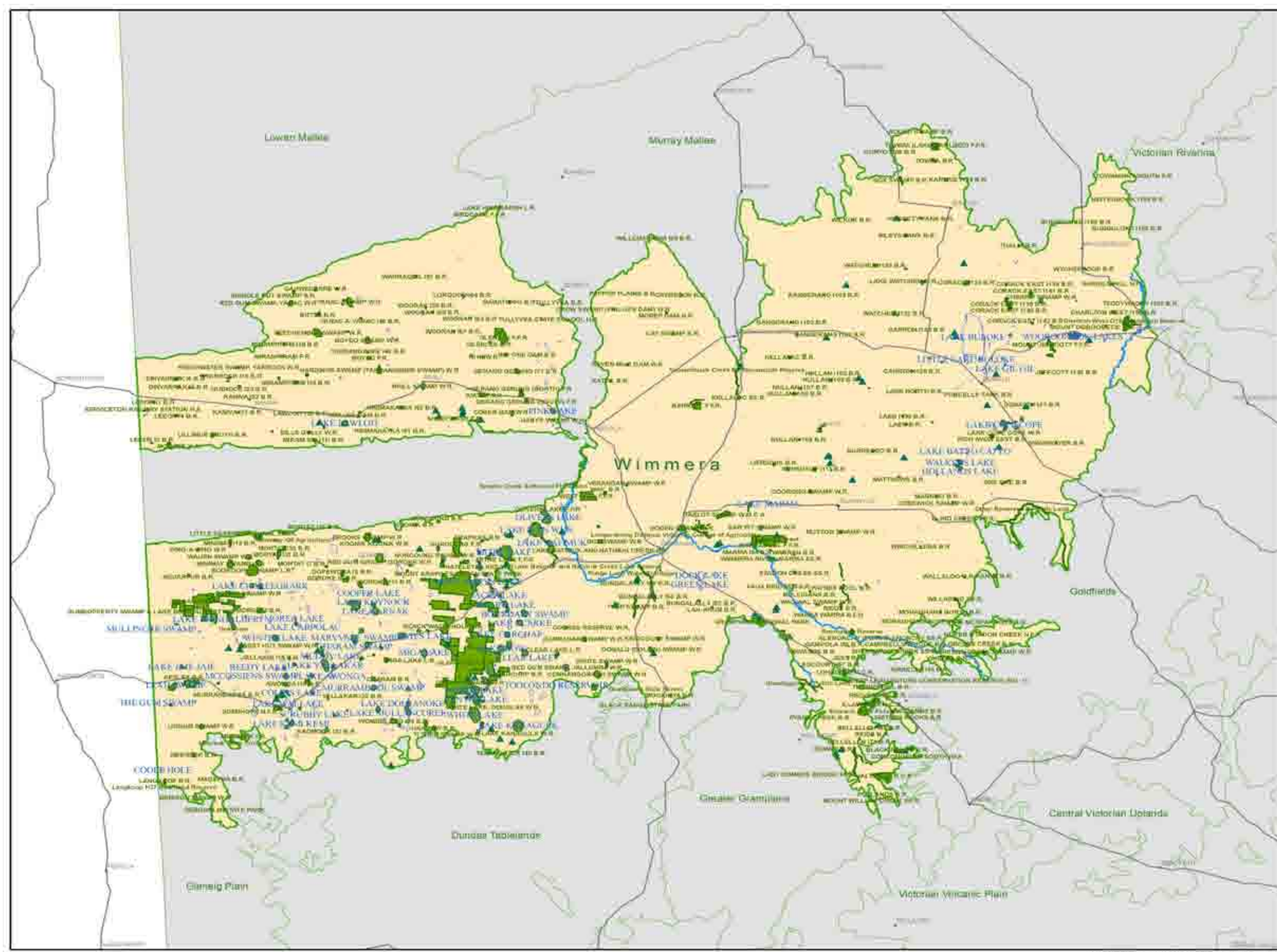
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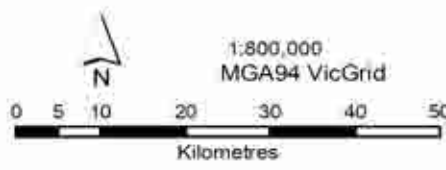


Terrestrial Biodiversity Review



Wimmera
Bioregional Map 1b:
Protected Areas

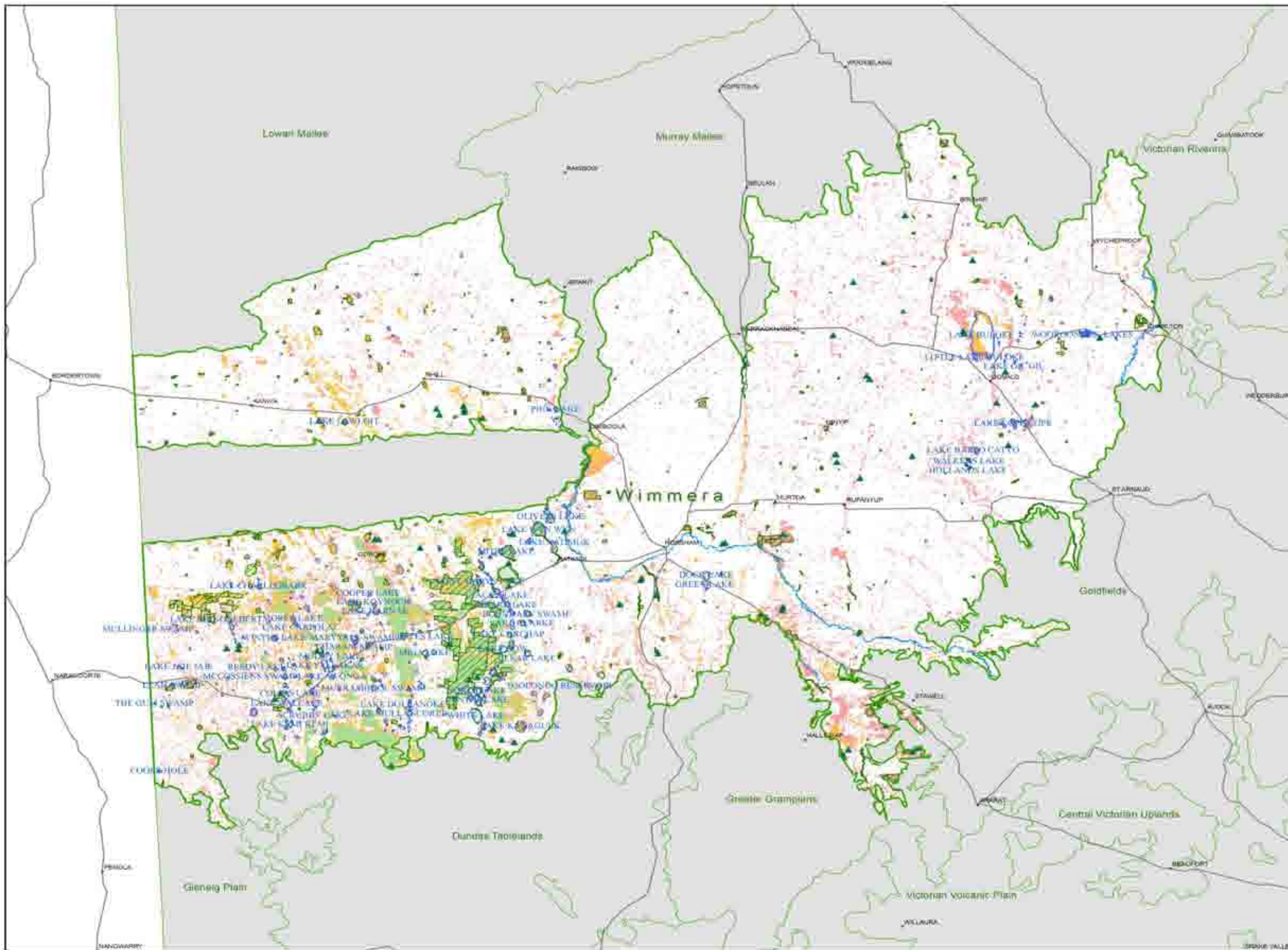
- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes



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Wimmera
Bioregional Map 2a:
Vegetation Conservation
Significance

Legend

- Bioregion
- Other Bioregion
- Updated Parks
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes

EVC Bioregional Conservation Status

- Endangered
- Vulnerable
- Depleted
- Rare
- Least Concern



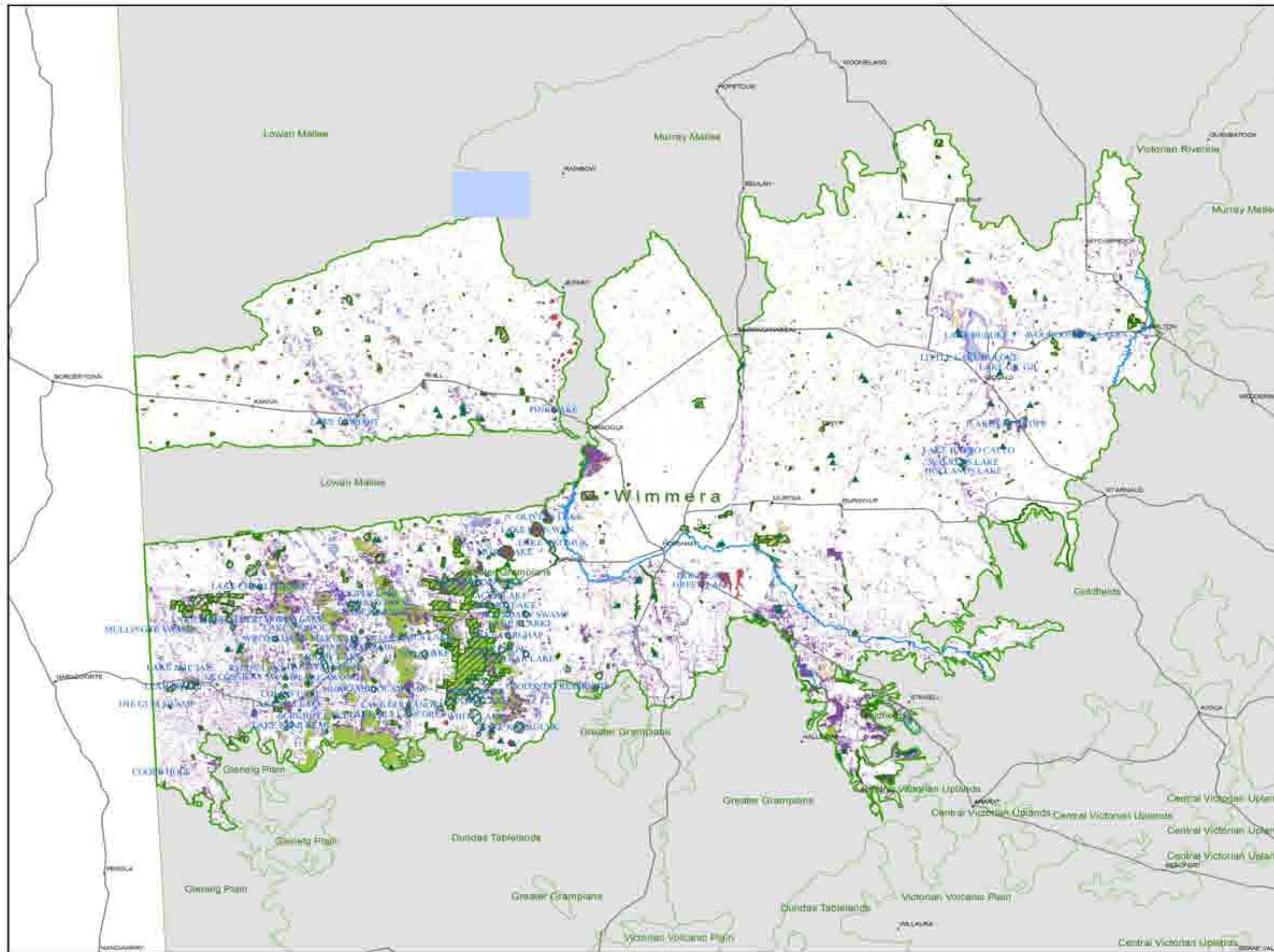
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0 5 10 20 30 40
 Kilometres

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**Wimmera
Bioregional Map 2b:
EVC Groups**

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- EVC Group**
- Coastal Scrubs Grasslands and Woodlands
 - Healthy Woodlands
 - Lowland Forests
 - Box Ironbark Forests or dry/lower fertility Woodlands
 - Lower Slopes or Hill Woodlands
 - Dry Forests
 - Wet or Damp Forests
 - Riparian Scrubs or Swampy Scrubs and Woodlands
 - Rainforests
 - Montane Grasslands, Shrublands or Woodlands
 - Sub-alpine Grasslands, Shrublands or Woodlands
 - Plains Grasslands and Chenopod Shrublands
 - Plains Woodlands or Forests
 - Riverine Grassy Woodlands or Forests
 - Herb-rich Woodlands
 - Heathlands
 - Mallee
 - Wetlands
 - Salt-tolerant and/or succulent Shrublands
 - Rocky Outcrop or Escarpment Scrubs
 - No native vegetation recorded



SKM

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Kilometres

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Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Wimmera	3	Damp Sands Herb-rich Woodland	15	Herb-rich Woodlands	Vulnerable	7590	1241	803	2044	125	0	1241	0	3137	5305	69.9	38.5	26.9
Wimmera	6	Sand Heathland	16	Heathlands	Depleted	1627	1299	61	1359	0	0	1299	0	142	1502	92.3	90.5	83.5
Wimmera	13	Brackish Sedgeland	18	Wetlands	Endangered	445	43	8	51	86	0	43	0	183	320	72.0	15.9	11.5
Wimmera	19	Riparian Shrubland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Depleted	12	0	7	7	4	0	0	0	1	12	100.0	61.5	61.5
Wimmera	22	Grassy Dry Forest	6	Dry Forests	Depleted	58	0	0	0	0	0	0	57	0	57	97.3	0.0	0.0
Wimmera	28	Rocky Outcrop Shrubland	20	Rocky Outcrop or Escarpment Scrubs	Rare	38	4	0	4	17	0	4	0	2	23	60.3	18.4	11.1
Wimmera	48	Heathy Woodland	2	Heathy Woodlands	Least Concern	52685	11969	20569	32539	220	0	11969	0	13785	46544	88.3	69.9	61.8
Wimmera	53	Swamp Scrub	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	14	0	0	0	0	0	0	7	0	7	50.2	0.0	0.0
Wimmera	55	Plains Grassy Woodland	13	Plains Woodlands or Forests	Endangered	47882	1553	582	2135	1246	0	1553	0	11581	14963	31.2	14.3	4.5
Wimmera	56	Floodplain Riparian Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	4804	4	2	6	1113	0	4	0	730	1850	38.5	0.3	0.1
Wimmera	61	Box Ironbark Forest	4	Box Ironbark Forests or dry/lower fertility Woodlands	Depleted	142	11	12	23	2	0	11	0	50	76	53.8	30.7	16.5
Wimmera	65	Sedge-rich Woodland	5	Lower Slopes or Hills Woodlands	Vulnerable	167	152	0	152	0	0	152	0	14	167	99.6	91.2	90.9
Wimmera	66	Low Rises Woodland	5	Lower Slopes or Hills Woodlands	Endangered	142329	2466	1360	3825	241	0	2466	0	12766	16832	11.8	22.7	2.7
Wimmera	67	Alluvial Terraces Herb-rich Woodland	15	Herb-rich Woodlands	Vulnerable	294	14	5	19	34	0	14	0	88	141	47.9	13.4	6.4
Wimmera	68	Creekline Grassy Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	2971	95	0	95	549	0	95	0	733	1377	46.3	6.9	3.2
Wimmera	69	Metamorphic Slopes Shrubby Woodland	2	Heathy Woodlands	Depleted	122	87	0	87	0	0	87	0	18	104	85.8	83.2	71.3
Wimmera	70	Hillcrest Herb-rich Woodland	5	Lower Slopes or Hills Woodlands	Depleted	273	232	0	232	0	0	232	0	24	256	93.7	90.7	85.0
Wimmera	71	Hills Herb-rich Woodland	5	Lower Slopes or Hills Woodlands	Vulnerable	1397	31	0	31	0	0	31	0	727	759	54.3	4.1	2.2
Wimmera	73	Rocky Outcrop Shrubland/Rocky Outcrop Herbland Mosaic	20	Rocky Outcrop or Escarpment Scrubs	Rare	10	7	0	7	0	0	7	0	2	9	87.0	81.9	71.2
Wimmera	74	Wetland Formation	18	Wetlands	Endangered	5001	555	0	555	444	0	555	0	1287	2285	45.7	24.3	11.1
Wimmera	76	Grassy Woodland/Alluvial Terraces Herb-rich Woodland Mosaic	5	Lower Slopes or Hills Woodlands	Endangered	152	0	0	0	0	0	0	0	17	17	11.0	0.0	0.0
Wimmera	77	Alluvial Terraces Herb-rich Woodland/Plains Grassy Woodland Mosaic	15	Herb-rich Woodlands	Endangered	3	0	0	0	0	0	0	3	0	3	83.8	0.0	0.0
Wimmera	87	Lowland Sands Mallee	17	Mallee	Least Concern	322	25	3	28	0	0	25	0	121	150	46.6	18.9	8.8
Wimmera	88	Heathy Mallee	17	Mallee	Least Concern	153	1	0	1	0	0	1	0	25	26	17.1	3.4	0.6
Wimmera	89	Dunefield Heathland	16	Heathlands	Least Concern	747	6	112	118	0	0	6	0	75	193	25.9	61.0	15.8
Wimmera	93	Sandstone Ridge Shrubland	17	Mallee	Vulnerable	21694	415	51	467	28	0	415	0	7130	7624	35.1	6.1	2.2
Wimmera	95	Red Swale Mallee	17	Mallee	Least Concern	224	1	0	2	0	0	1	0	11	13	5.8	11.8	0.7
Wimmera	96	Ridged Plains Mallee	17	Mallee	Endangered	142375	575	26	601	69	0	575	0	7787	8457	5.9	7.1	0.4
Wimmera	97	Semi-arid Woodland	13	Plains Woodlands or Forests	Vulnerable	3744	6	0	6	1	0	6	0	184	191	5.1	3.4	0.2
Wimmera	98	Semi-arid Chenopod Woodland	13	Plains Woodlands or Forests	Vulnerable	3	0	0	0	0	0	0	1	0	1	24.5	0.0	0.0
Wimmera	101	Samphire Shrubland	19	Salt-tolerant and/or succulent Shrublands	Least Concern	68	41	0	41	4	0	41	0	21	66	96.6	61.8	59.7
Wimmera	102	Low Chenopod Shrubland	12	Plains Grasslands and Chenopod Shrublands	Depleted	10	0	0	0	0	0	0	1	0	1	11.7	0.0	0.0
Wimmera	103	Riverine Chenopod Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	39207	515	361	876	1022	0	515	0	4669	6567	16.7	13.3	2.2
Wimmera	104	Lignum Swamp	18	Wetlands	Endangered	0	6	0	6	38	0	6	0	759	804	0.0	0.8	0.0
Wimmera	104	Lignum Wetland	18	Wetlands		6026	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Wimmera	110	Riverine Chenopod Woodland/Plains Grassland Mosaic	14	Riverine Grassy Woodlands or Forests	Endangered	190	1	0	1	0	0	1	0	1	1	0.7	42.1	0.3
Wimmera	125	Plains Grassy Wetland	18	Wetlands	Endangered	201	0	0	0	0	0	0	98	0	98	48.8	0.0	0.0
Wimmera	132	Plains Grassland	12	Plains Grasslands and Chenopod Shrublands	Endangered	84209	99	0	99	129	0	99	0	3083	3311	3.9	3.0	0.1
Wimmera	134	Sand Forest	2	Heathy Woodlands	Endangered	2	0	0	0	0	0	0	2	0	2	92.7	0.0	0.0
Wimmera	136	Sedge Wetland	18	Wetlands	Endangered	218	36	37	74	7	0	36	0	74	155	70.8	47.6	33.7
Wimmera	164	Creekline Herb-rich Woodland	15	Herb-rich Woodlands	Endangered	11	0	0	0	0	0	0	0	11	11	97.7	0.0	0.0

Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Wimmera	175	Grassy Woodland	5	Lower Slopes or Hills Woodlands	Endangered	24284	672	192	864	83	0	672	0	2704	3651	15.0	23.7	3.6
Wimmera	179	Heathy Herb-rich Woodland	2	Heathy Woodlands	Depleted	8636	1164	1725	2889	19	0	1164	0	3756	6664	77.2	43.4	33.5
Wimmera	191	Riparian Scrub	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	892	7	0	7	2	0	7	0	517	526	59.0	1.3	0.8
Wimmera	195	Seasonally Inundated Shrubby Woodland	5	Lower Slopes or Hills Woodlands	Least Concern	2055	585	239	824	18	0	585	0	892	1734	84.4	47.5	40.1
Wimmera	200	Shallow Freshwater Marsh	18	Wetlands	Vulnerable	111	0	1	1	31	0	0	0	66	98	87.6	1.1	0.9
Wimmera	264	Sand Ridge Woodland	13	Plains Woodlands or Forests	Endangered	996	63	9	72	1	0	63	0	424	497	49.9	14.6	7.3
Wimmera	282	Shrubby Woodland	2	Heathy Woodlands	Least Concern	32	1	0	1	11	0	1	0	10	22	67.6	4.4	3.0
Wimmera	283	Plains Sedgy Woodland	13	Plains Woodlands or Forests	Depleted	2187	227	652	879	0	0	227	0	828	1707	78.0	51.5	40.2
Wimmera	285	Dry Creekline Woodland	5	Lower Slopes or Hills Woodlands	Endangered	11	0	0	0	0	0	0	7	0	7	58.5	0.0	0.0
Wimmera	291	Cane Grass Wetland	18	Wetlands	Vulnerable	5694	678	14	693	1720	0	678	0	780	3193	56.1	21.7	12.2
Wimmera	292	Red Gum Swamp	18	Wetlands	Vulnerable	0	1983	406	2389	1057	0	1983	0	16997	20443	0.0	11.7	0.0
Wimmera	292	Red Gum Wetland	18	Wetlands		28417	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Wimmera	321	Riverine Chenopod Woodland/Lignum Swamp Mosaic	14	Riverine Grassy Woodlands or Forests	Endangered	0	238	0	238	574	0	238	0	1882	2693	0.0	8.8	0.0
Wimmera	321	Riverine Chenopod Woodland/Lignum Wetland Mosaic	14	Riverine Grassy Woodlands or Forests		10900	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Wimmera	418	Damp Sands Herb-rich Woodland/Heathy Woodland Complex	15	Herb-rich Woodlands	Vulnerable	8	6	0	6	0	0	6	0	2	8	100.0	78.2	78.2
Wimmera	441	Shrubby Woodland/Heathy Woodland Complex	2	Heathy Woodlands	Least Concern	0	0	0	0	0	0	0	0	0	0	101.5	100.0	101.5
Wimmera	442	Shrubby Woodland/Plains Grassy Woodland Complex	13	Plains Woodlands or Forests	Endangered	9	8	0	8	0	0	8	0	1	9	98.6	87.2	86.0
Wimmera	454	Alluvial Terraces Herb-rich Woodland/Claypan Ephemeral Wetland Complex	15	Herb-rich Woodlands	Vulnerable	1	1	0	1	0	0	1	0	0	1	99.2	94.6	93.8
Wimmera	636	Brackish Lake Aggregate	19	Salt-tolerant and/or succulent Shrublands	Depleted	0	333	6	339	1822	0	333	0	248	2409	0.0	14.1	0.0
Wimmera	636	Brackish Lake Mosaic	19	Salt-tolerant and/or succulent Shrublands		2538	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Wimmera	640	Creekline Sedgy Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	2677	13	15	28	416	0	13	0	943	1387	51.8	2.0	1.1
Wimmera	641	Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	5604	307	187	494	1631	0	307	0	1968	4093	73.0	12.1	8.8
Wimmera	643	Brackish Drainage-line Aggregate	18	Wetlands	Endangered	0	19	0	19	0	0	19	0	76	95	0.0	19.8	0.0
Wimmera	643	Brackish Drainage-line Herbland-Sedgeland	18	Wetlands		283	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Wimmera	647	Plains Sedgy Wetland	18	Wetlands	Endangered	261	16	0	16	0	0	16	0	126	142	54.3	11.1	6.0
Wimmera	650	Heathy Woodland/Damp Heathy Woodland/Damp Heathland Mosaic	2	Heathy Woodlands	Least Concern	4	0	0	0	0	0	0	0	0	0	6.1	0.0	0.0
Wimmera	651	Plains Swampy Woodland	13	Plains Woodlands or Forests	Endangered	15	0	10	10	0	0	0	0	2	12	77.1	84.5	65.1
Wimmera	652	Lunette Woodland	13	Plains Woodlands or Forests	Endangered	1448	64	0	64	4	0	64	0	410	478	33.0	13.4	4.4
Wimmera	653	Aquatic Herbland	18	Wetlands	Endangered	1043	178	13	192	67	0	178	0	655	913	87.6	21.0	18.4
Wimmera	655	Lignum-Cane Grass Swamp	18	Wetlands	Endangered	128	126	0	126	0	0	126	0	2	128	100.0	98.2	98.2
Wimmera	656	Brackish Wetland	18	Wetlands	Endangered	175	14	0	14	28	0	14	0	92	135	76.8	10.8	8.3
Wimmera	657	Freshwater Lignum Shrubland	13	Plains Woodlands or Forests	Endangered	769	91	0	91	0	0	91	0	420	511	66.5	17.8	11.8
Wimmera	658	Riverine Grassy Woodland/Sedgy Riverine Forest/Aquatic Herbland Mosaic	14	Riverine Grassy Woodlands or Forests	Vulnerable	1231	0	0	0	152	0	0	0	315	467	38.0	0.0	0.0
Wimmera	659	Plains Riparian Shrubby Woodland	14	Riverine Grassy Woodlands or Forests	Vulnerable	416	28	0	28	255	0	28	0	99	382	91.8	7.2	6.6
Wimmera	660	Plains Woodland/Plains Grassy Wetland Mosaic	13	Plains Woodlands or Forests	Endangered	911	51	748	799	0	0	51	0	80	878	96.5	90.9	87.7
Wimmera	661	Plains Woodland/Grassy Woodland Mosaic	13	Plains Woodlands or Forests	Endangered	68	0	0	0	0	0	0	0	0	0	0.6	0.0	0.0
Wimmera	663	Black Box Lignum Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	256	13	0	13	115	0	13	0	32	159	62.1	7.9	4.9
Wimmera	672	Damp Sands Herb-rich Woodland/Shrubby Woodland Mosaic	15	Herb-rich Woodlands	Vulnerable	85	0	0	0	22	0	0	0	50	72	84.2	0.3	0.2
Wimmera	673	Dune Soak Woodland	2	Heathy Woodlands	Endangered	117	14	16	30	5	0	14	0	44	80	68.3	38.0	25.9
Wimmera	674	Sandy Stream Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	69	2	2	4	2	0	2	0	37	43	63.0	9.2	5.8

Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Wimmera	676	Salt Paperbark Woodland	19	Salt-tolerant and/or succulent Shrublands	Vulnerable	208	65	11	76	8	0	65	0	107	191	91.5	39.8	36.4
Wimmera	677	Inland Saltmarsh	19	Salt-tolerant and/or succulent Shrublands	Endangered	355	205	0	205	1	0	205	0	80	286	80.7	71.7	57.8
Wimmera	679	Drainage-line Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	4149	114	39	153	510	0	114	0	968	1631	39.3	9.4	3.7
Wimmera	680	Freshwater Meadow	18	Wetlands	Endangered	101	0	1	1	0	0	0	0	85	85	84.7	0.9	0.7
Wimmera	681	Deep Freshwater Marsh	18	Wetlands	Endangered	1887	0	0	0	311	0	0	0	30	341	18.0	0.0	0.0
Wimmera	694	Sandstone Ridge Shrubland/Low Rises Woodland Mosaic	17	Mallee	Endangered	1019	0	0	0	0	0	0	185	0	185	18.1	0.0	0.0
Wimmera	696	Grassy Woodland/Riverine Grassy Woodland Mosaic	13	Plains Woodlands or Forests	Endangered	928	0	0	0	0	0	0	117	0	117	12.6	0.0	0.0
Wimmera	697	Grassy Woodland/Alluvial Terraces Herb-rich Woodland Mosaic	5	Lower Slopes or Hills Woodlands	Endangered	126	4	0	4	0	0	4	0	29	33	26.5	12.3	3.3
Wimmera	704	Lateritic Woodland	2	Heathy Woodlands	Vulnerable	1553	286	591	877	25	0	286	0	475	1377	88.7	63.6	56.4
Wimmera	709	Scree-slope Woodland	5	Lower Slopes or Hills Woodlands	Endangered	0	0	0	0	0	0	0	0	0	0	0.0	100.0	0.0
Wimmera	709	Scree-slope Grassland/Woodland Mosaic	5	Lower Slopes or Hills Woodlands		1	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Wimmera	710	Damp Heathland	16	Heathlands	Least Concern	119	13	78	90	0	0	13	0	29	119	100.0	75.7	75.7
Wimmera	711	Shallow Sands Woodland/Plains Sedgy Woodland Mosaic	13	Plains Woodlands or Forests	Vulnerable	2154	901	246	1147	0	0	901	0	560	1707	79.3	67.2	53.3
Wimmera	717	Saline Lake Aggregate	19	Salt-tolerant and/or succulent Shrublands	Least Concern	0	948	0	948	0	0	948	0	82	1030	0.0	92.1	0.0
Wimmera	717	Saline Lake Mosaic	19	Salt-tolerant and/or succulent Shrublands		1030	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Wimmera	718	Freshwater Lake Aggregate	18	Wetlands	Rare	0	474	0	474	0	0	474	0	30	504	0.0	94.1	0.0
Wimmera	718	Freshwater Lake Mosaic	18	Wetlands		505	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Wimmera	724	Plains Woodland/Plains Sedgy Woodland/Damp Sands Herb-rich Woodland Mosaic	13	Plains Woodlands or Forests	Endangered	5531	0	336	336	199	0	0	0	2106	2641	47.8	12.7	6.1
Wimmera	726	Rocky Outcrop Shrubland/Rocky Outcrop Herbland/Heathy Woodland Mosaic	20	Rocky Outcrop or Escarpment Scrubs	Rare	2	2	0	2	0	0	2	0	0	2	100.7	93.6	94.3
Wimmera	729	Sand Ridge Woodland/Damp Sands Herb-rich Woodland Mosaic	13	Plains Woodlands or Forests	Endangered	428	0	0	0	79	0	0	0	198	277	64.7	0.0	0.0
Wimmera	732	Damp Sands Herb-rich Woodland/Plains Swampy Woodland/Aquatic Herbland Mosaic	15	Herb-rich Woodlands	Vulnerable	44	0	0	0	0	0	0	4	0	4	9.6	0.0	0.0
Wimmera	741	Salt Paperbark Woodland/Samphire Shrubland Mosaic	19	Salt-tolerant and/or succulent Shrublands	Vulnerable	2249	679	1	680	32	0	679	0	1379	2090	92.9	32.5	30.2
Wimmera	748	Shallow Sands Woodland/Heathy Woodland Mosaic	13	Plains Woodlands or Forests	Vulnerable	869	506	166	673	0	0	506	0	133	805	92.7	83.5	77.4
Wimmera	749	Shallow Sands Woodland/Plains Sedgy Woodland/Seasonally Inundated Shrubby Woodland Mosaic	13	Plains Woodlands or Forests	Vulnerable	4169	307	445	752	0	0	307	0	1269	2021	48.5	37.2	18.0
Wimmera	750	Shallow Sands Woodland/Plains Sedgy Woodland/Seasonally Inundated Shrubby Woodland/Damp Sands Herb-rich Woodland Mosaic	13	Plains Woodlands or Forests	Vulnerable	7965	291	1506	1797	6	0	291	0	2846	4648	58.4	38.7	22.6
Wimmera	751	Seasonally Inundated Shrubby Woodland/Plains Sedgy Woodland Mosaic	5	Lower Slopes or Hills Woodlands	Least Concern	799	119	408	527	6	0	119	0	185	718	89.8	73.4	65.9
Wimmera	752	Grassy Woodland/Hills Herb-rich Woodland/Damp Sands Herb-rich Woodland Mosaic	15	Herb-rich Woodlands	Endangered	54	0	0	0	0	0	0	0	24	24	44.7	1.5	0.6
Wimmera	753	Rocky Outcrop Shrubland/Rocky Outcrop Herbland/Sandstone Ridge Shrubland Mosaic	20	Rocky Outcrop or Escarpment Scrubs	Rare	6	6	0	6	0	0	6	0	0	6	99.5	99.1	98.6
Wimmera	754	Damp Heathland/Seasonally Inundated Shrubby Woodland Mosaic	16	Heathlands	Least Concern	63	0	31	31	0	0	0	0	32	63	100.0	49.6	49.6
Wimmera	756	Heathy Woodland/Seasonally Inundated Shrubby Woodland Mosaic	2	Heathy Woodlands	Least Concern	55	0	52	52	0	0	0	0	3	55	100.0	94.6	94.6
Wimmera	757	Damp Sands Herb-rich Woodland/Seasonally Inundated Shrubby Woodland Mosaic	15	Herb-rich Woodlands	Vulnerable	343	113	0	113	1	0	113	0	78	193	56.3	58.7	33.1
Wimmera	779	Damp Sands Herb-rich Woodland/Shallow Sands Woodland Mosaic	15	Herb-rich Woodlands	Vulnerable	2203	184	58	242	0	0	184	0	820	1062	48.2	22.8	11.0
Wimmera	780	Plains Sedgy Woodland/Shallow Sands Woodland/Heathy Woodland Mosaic	13	Plains Woodlands or Forests	Depleted	371	0	310	310	0	0	0	0	60	371	100.0	83.7	83.7
Wimmera	783	Grassy Dry Forest/Heathy Woodland Mosaic	6	Dry Forests	Depleted	240	101	57	158	0	0	101	0	51	209	86.9	75.6	65.7
Wimmera	785	Heathy Herb-rich Woodland/Damp Sands Herb-rich Woodland Mosaic	15	Herb-rich Woodlands	Vulnerable	797	273	46	320	0	0	273	0	287	607	76.2	52.7	40.1
Wimmera	787	Plains Woodland/Damp Sands Herb-rich Woodland Mosaic	13	Plains Woodlands or Forests	Endangered	219	127	0	127	0	0	127	0	54	182	82.8	69.9	57.9
Wimmera	788	Shallow Sands Woodland/Heathy Herb-rich Woodland Mosaic	13	Plains Woodlands or Forests	Vulnerable	69	0	0	0	0	0	0	68	0	68	99.4	0.0	0.0
Wimmera	789	Hills Herb-rich Woodland/Grassy Dry Forest Complex	5	Lower Slopes or Hills Woodlands	Endangered	2	2	0	2	0	0	2	0	0	2	101.7	100.0	101.7

Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Wimmera	790	Heathy Woodland/Heathy Herb-rich Woodland Mosaic	2	Heathy Woodlands	Least Concern	332	113	0	114	0	0	113	0	145	259	77.9	44.0	34.3
Wimmera	802	Grassy Woodland/Heathy Woodland Mosaic	5	Lower Slopes or Hills Woodlands	Endangered	76	13	0	13	0	0	13	0	41	54	71.4	24.5	17.4
Wimmera	803	Plains Woodland	13	Plains Woodlands or Forests	Endangered	786778	2621	1373	3994	1846	0	2621	0	73041	78880	10.0	5.1	0.5
Wimmera	812	Grassy Riverine Forest/Riverine Swamp Forest Complex	14	Riverine Grassy Woodlands or Forests	Depleted	683	0	0	0	228	0	0	0	117	345	50.5	0.0	0.0
Wimmera	813	Intermittent Swampy Woodland	14	Riverine Grassy Woodlands or Forests	Vulnerable	59	0	0	0	0	0	0	0	15	15	25.1	2.1	0.5
Wimmera	822	Intermittent Swampy Woodland/Riverine Grassy Woodland Complex	14	Riverine Grassy Woodlands or Forests	Vulnerable	4	0	0	0	3	0	0	0	0	3	84.3	0.0	0.0
Wimmera	823	Lignum Swampy Woodland	14	Riverine Grassy Woodlands or Forests	Vulnerable	27772	745	77	822	597	0	745	0	4719	6139	22.1	13.4	3.0
Wimmera	824	Woorinen Mallee	17	Mallee	Vulnerable	1953	0	0	1	8	0	0	0	160	170	8.7	0.5	0.0
Wimmera	826	Plains Savannah	12	Plains Grasslands and Chenopod Shrublands	Endangered	380019	921	19	940	419	0	921	0	20031	21390	5.6	4.4	0.2
Wimmera	829	Chenopod Grassland	12	Plains Grasslands and Chenopod Shrublands	Endangered	217	0	0	0	0	0	0	0	15	16	7.2	0.0	0.0
Wimmera	830	Red Gum Swamp/Cane Grass Wetland Mosaic	18	Wetlands	Vulnerable	0	91	0	91	0	0	91	0	46	137	0.0	66.7	0.0
Wimmera	830	Red Gum Wetland/Cane Grass Wetland Mosaic	18	Wetlands		137	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Wimmera	831	Red Gum Swamp/Spike-sedge Wetland Mosaic	18	Wetlands	Vulnerable	0	146	0	146	0	0	146	0	1	147	0.0	99.3	0.0
Wimmera	831	Red Gum Wetland/Spike-sedge Wetland Mosaic	18	Wetlands		147	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Wimmera	832	Plains Grassy Wetland/Red Gum Swamp Mosaic	18	Wetlands	Endangered	0	72	0	72	0	0	72	0	0	72	0.0	99.3	0.0
Wimmera	832	Plains Grassy Wetland/Red Gum Wetland Mosaic	18	Wetlands		72	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Wimmera	833	Cane Grass Wetland/Lignum Swampy Woodland Mosaic	18	Wetlands	Endangered	779	9	0	9	0	0	9	0	615	623	80.0	1.4	1.1
Wimmera	834	Red Gum Swamp/Lignum Swampy Woodland Mosaic	18	Wetlands	Vulnerable	0	312	0	312	0	0	312	0	29	341	0.0	91.5	0.0
Wimmera	834	Red Gum Wetland/Lignum Swampy Woodland Mosaic	18	Wetlands		344	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Wimmera	881	Damp Sands Herb-rich Woodland/Heathy Woodland Mosaic	15	Herb-rich Woodlands	Vulnerable	71	0	0	0	0	0	0	71	0	71	100.0	0.0	0.0
Wimmera	882	Shallow Sands Woodland	13	Plains Woodlands or Forests	Vulnerable	70840	3208	4373	7581	530	0	3208	0	16936	25046	35.4	30.3	10.7
Wimmera	886	Red Gum Wetland/Aquatic Herbland Mosaic	18	Wetlands	Vulnerable	1280	329	66	395	56	0	329	0	751	1203	93.9	32.9	30.9
Wimmera	892	Heathy Woodland/Sand Heathland Mosaic	2	Heathy Woodlands	Least Concern	4814	2674	233	2907	0	0	2674	0	1361	4268	88.7	68.1	60.4
Wimmera	895	Escarpment Shrubland	13	Plains Woodlands or Forests		616	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Wimmera	939	Lake Bed Herbland/Red Gum Swamp Mosaic	18	Wetlands	Depleted	0	301	0	301	0	0	301	0	0	302	0.0	99.9	0.0
Wimmera	939	Lake Bed Herbland/Red Gum Wetland Mosaic	18	Wetlands		303	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Wimmera	940	Samphire Shrubland/Saline Lake Mosaic	19	Salt-tolerant and/or succulent Shrublands	Least Concern	354	352	0	352	0	0	352	0	3	354	100.0	99.3	99.3
Wimmera	941	Cane Grass Wetland/Salt Paperbark Woodland Mosaic	18	Wetlands	Endangered	41	2	33	35	0	0	2	0	6	41	100.0	84.9	84.8
Wimmera	981	Parilla Mallee	17	Mallee	Endangered	15769	5	0	5	16	0	5	0	1172	1194	7.6	0.4	0.0
Total						2,003,824	46,027	38,796	84,823	18,293	0	46,027	621	234,901	338,638	16.9%	13.6%	2.3%

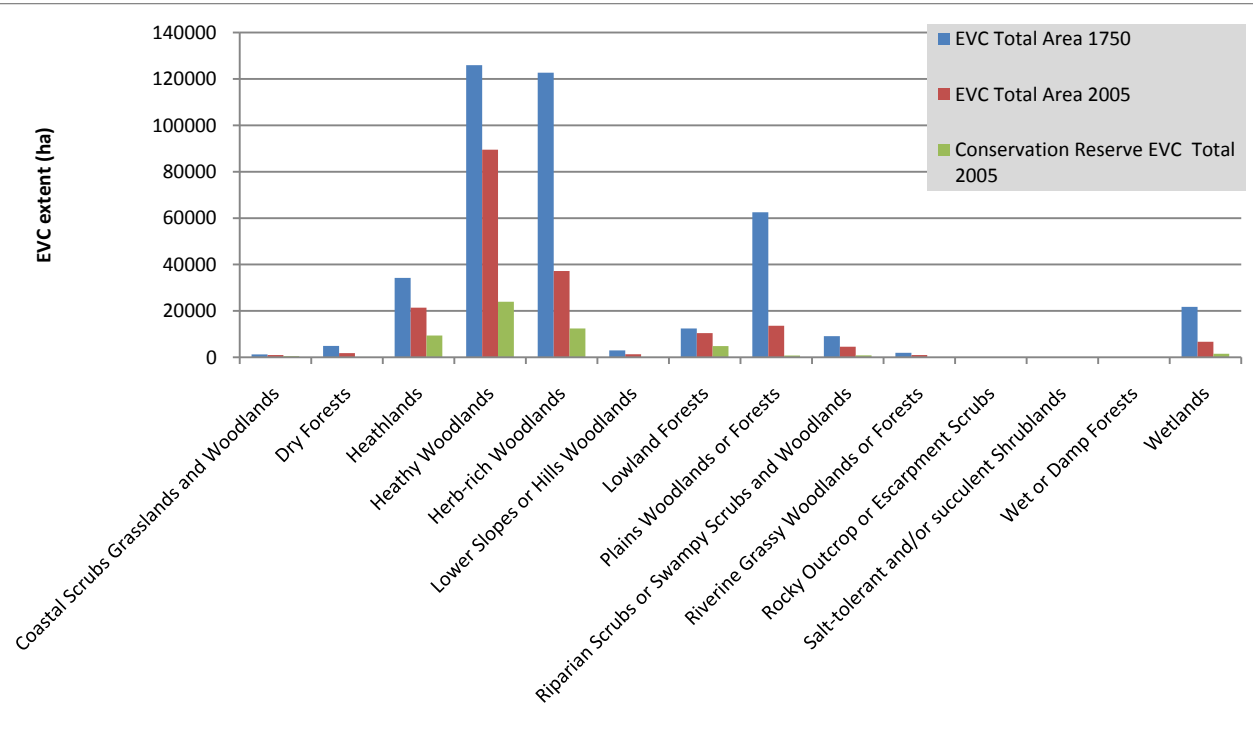
6. Glenelg Plain

Bioregion size: 398 828 ha
 Native vegetation cover: 188 382 ha (47%)
 Conservation reserve cover (excludes State Forests): 54 574 ha (29%)

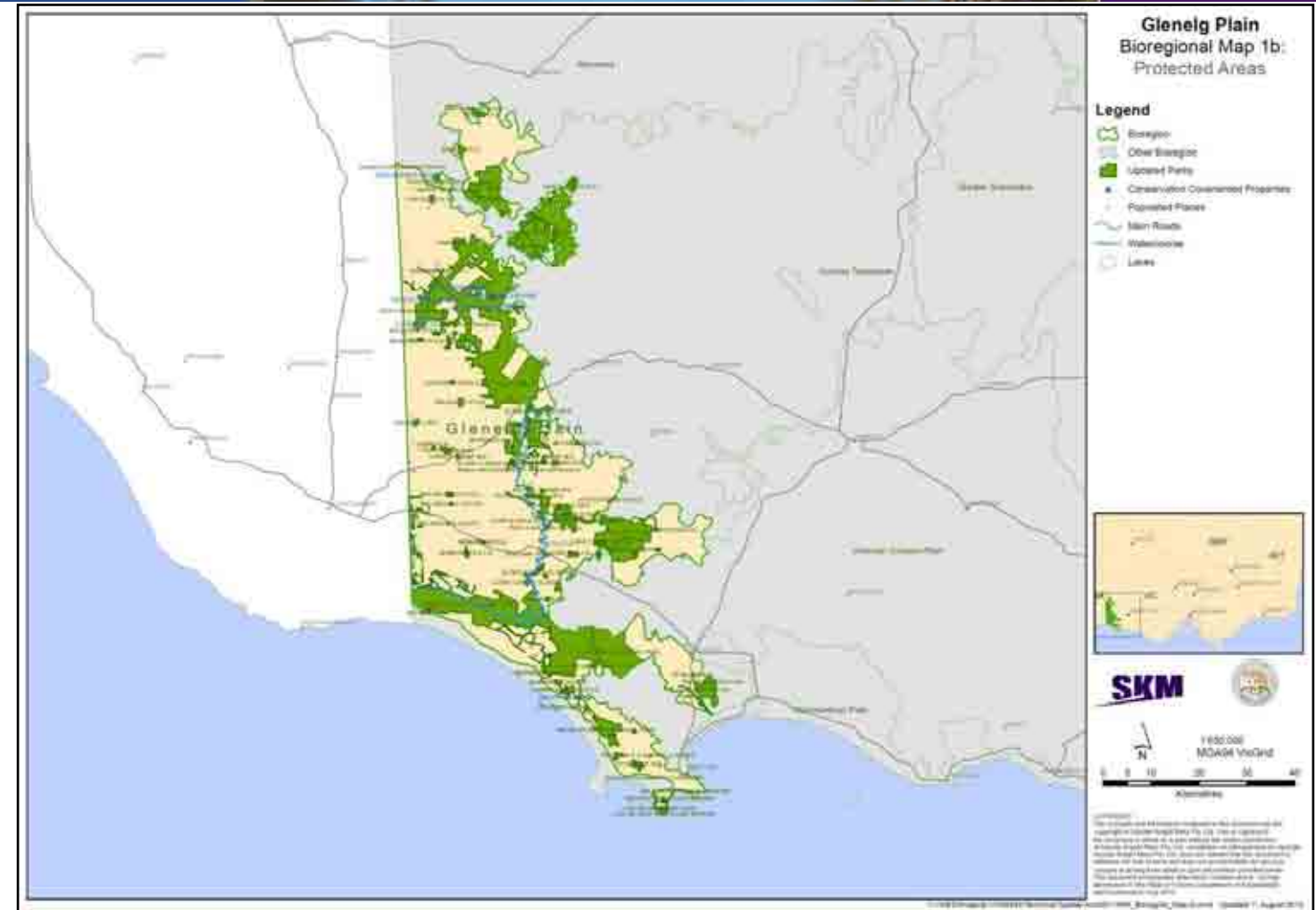
Conservation Priorities

Significant areas of native vegetation in the Bioregion are located on non-conservation public land, mostly in State Forests, and are largely represented by the Heathy Forest and Herb-rich Forest EVC groups. Conservation priorities should include increasing the conservation protection of these areas and increasing the conservation of the Wetland EVCs, most of which have a Bioregional Conservation Status of Endangered.

The Glenelg Plain Bioregion (GleP) covers approximately 398,828 ha in the south-west corner of Victoria. The region is a series of long low narrow ridges running parallel to the present coastline, dominated by Plains Grassy Woodland, with wet heaths in the inter-dune swales. The Glenelg River is the most significant waterway in the region. The Glenelg Plain is Sub-region NCP2 of the Naracoorte Coastal Plain Interim Biogeographic Regionalisation of Australia (IBRA) Bioregion. The majority of the Bioregion falls within the Glenelg Hopkins Catchment Management Authority (CMA) area, with a small area in the Wimmera CMA. Under the proposed alignment of new Natural Resource & Catchment Authorities (NRCA) to be implemented in 2011, the Glenelg Hopkins CMA will become part of the Western Districts NRCA, while the Wimmera CMA will be part of the Wimmera-Mallee NRCA. Approximately 30% of the bioregion is Crown land, including Lower Glenelg National Park, Mount Eccles National Park, Cobbobbonee National Park and Mount Richmond National Park. The Bioregion supports 51 Ecological Vegetation Classes (EVCs) and an additional 35 EVC Mosaics or Complexes. Of these, 34 have a Bioregional Conservation Status (BCS) of Endangered. Large areas of the Bioregion have been cleared for agriculture and plantations, with only 47% of the pre-1750 EVC area remaining. Approximately 29% of the remaining EVCs are protected on conservation land.

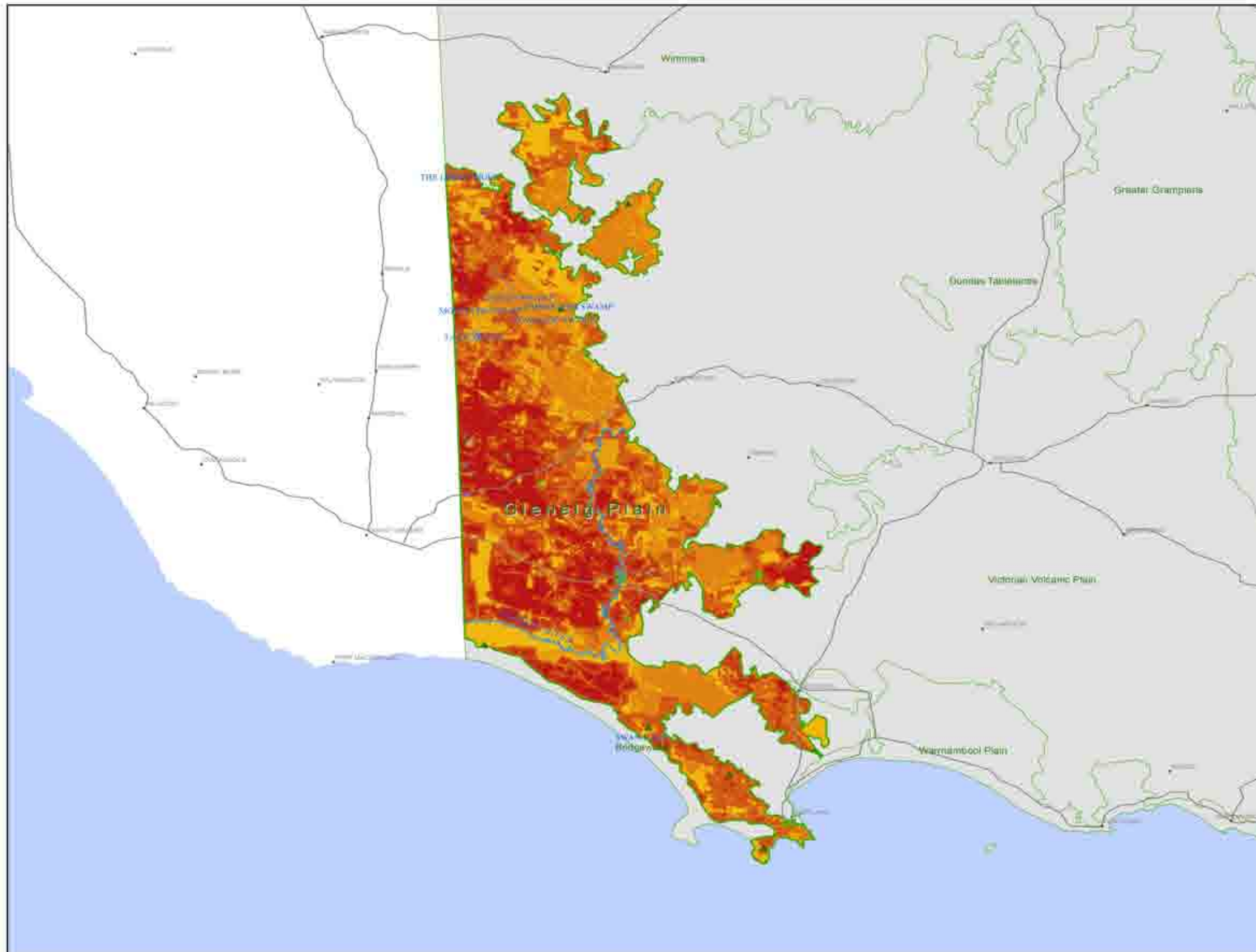


■ Figure 6-1 EVC Group Breakdown



■ Figure 6-2 Protected Areas – Glenelg Plain

The Bioregion is also known to provide habitat for several Commonwealth Environment Protection and Biodiversity Conservation (EPBC) Act listed species including the Critically Endangered Orange-bellied Parrot (*Neophema chrysogaster*), Loggerhead Turtle (*Caretta caretta*), Leatherback Turtle (*Dermochelys coriacea*), Eastern Barred Bandicoot (Mainland variant) (*Perameles gunnii* unnamed subsp.) and South-eastern Red-tailed Black Cockatoo (*Calyptorhynchus banksii graptogyne*), all listed as Endangered, and Growling Grass Frog (*Litoria raniformis*) and Striped Legless Lizard (*Delma impar*), both listed as Vulnerable. The Eastern Barred Bandicoot (Mainland variant) was reintroduced into the Bioregion as part of an active recovery program for the species, which is considered to be extinct in the wild. Fifteen (15) migratory species and 19 listed marine species are also known to occur in the area. The Bioregion is also important habitat for a suite of the State Flora and Fauna Guarantee (FFG) Act listed species including Brolga (*Grus rubicundus*), Plains-wanderer (*Pedionomus torquatus*), Hooded Plover (*Charadrius rubricollis*), Little Tern (*Sterna albibrons*), Rufous Bristlebird (*Dasyornis broadbenti*), Grey Crowned Babbler (*Pomatostomus temporalis*) and Yarra Pigmy Perch (*Edelia obscura*). Land use in the region is dominated by grazing and plantations, mostly pine and Blue Gum. Hardwood logging occurs throughout the State forests in the area. Ongoing threats to the Bioregion include the drainage of wetlands for grazing purposes, salinity, feral animals and the continued clearance of native vegetation on private land. Climate change will cause the region to become hotter and drier, increasing the risk of bushfire and drought in the area and significantly decreasing runoff into the Glenelg River.



**Glenelg Plain
Bioregional Map 1a:
Landscape Priorities**

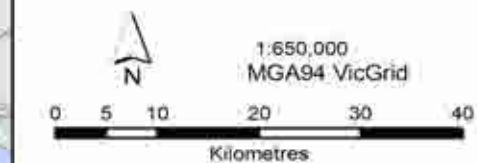
Legend

- Bioregion
- Other Bioregion
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes

Landscape Importance



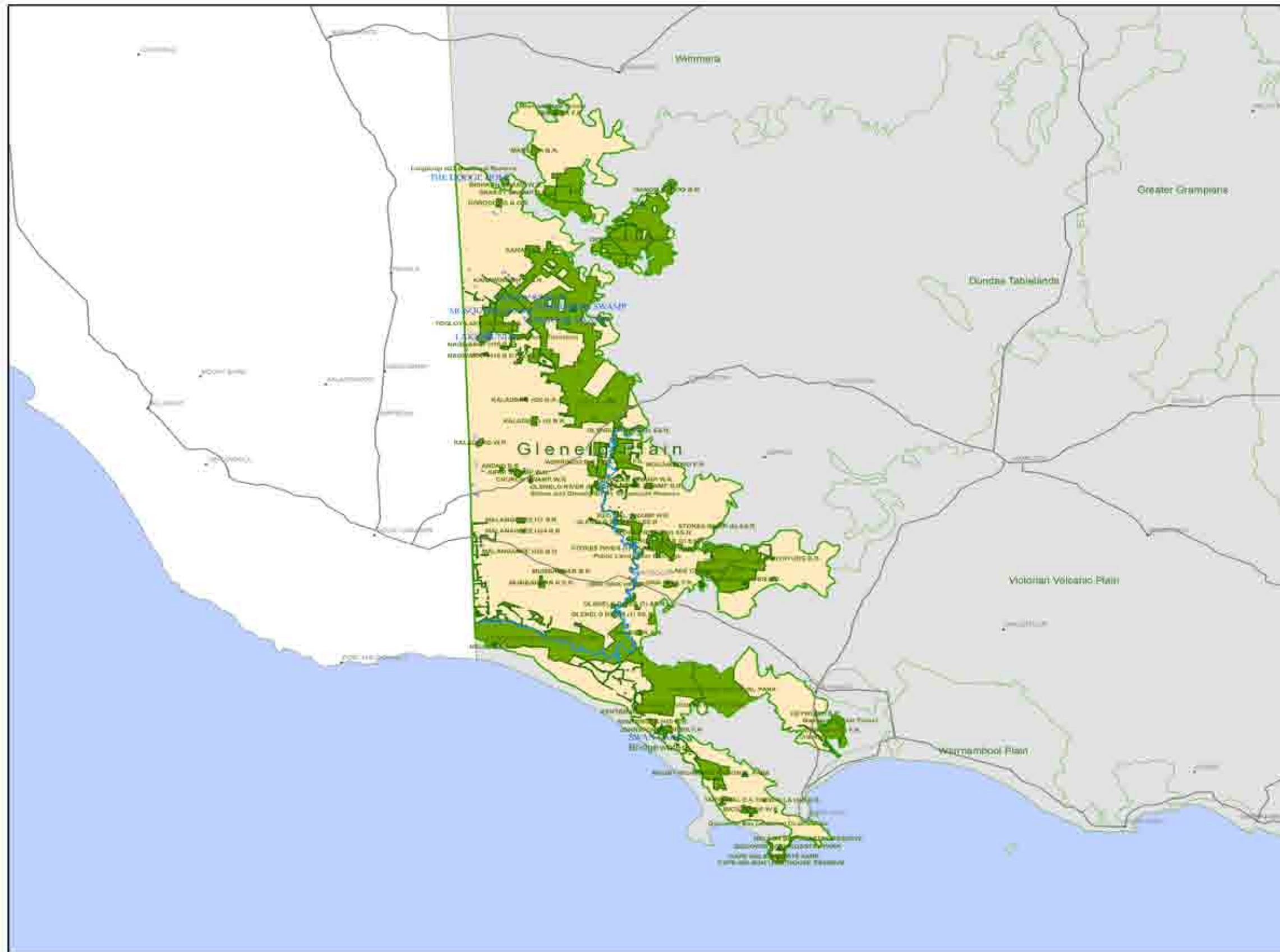
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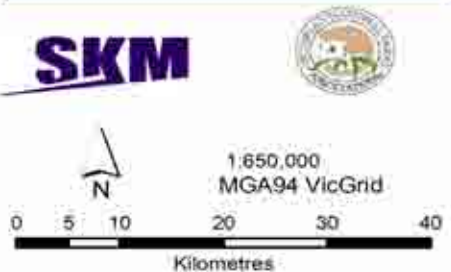




**Glenelg Plain
Bioregional Map 1b:
Protected Areas**

Legend

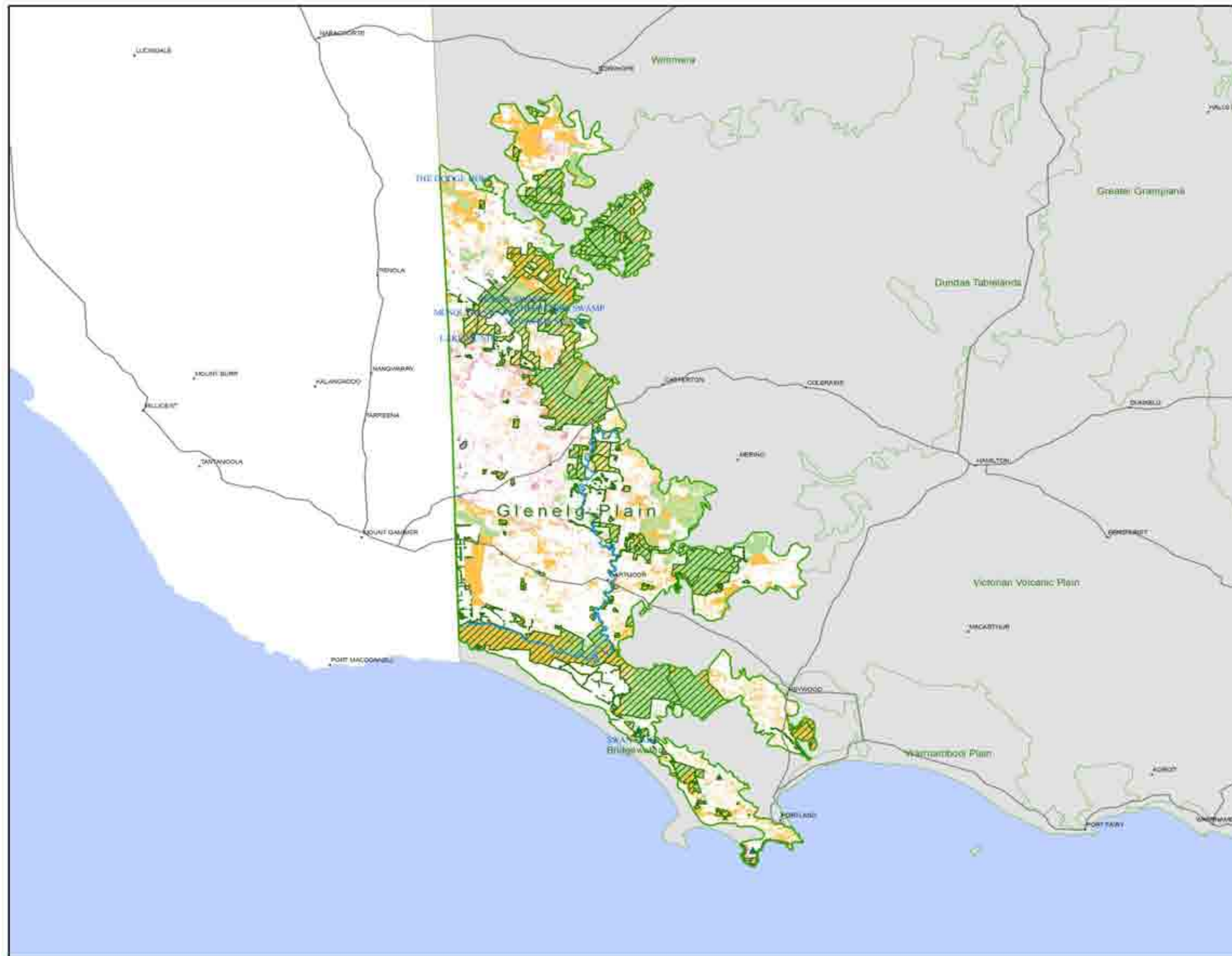
- Bioregion
- Other Bioregion
- Updated Parks
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes



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**Glenelg Plain
Bioregional Map 2a:
Vegetation Conservation
Significance**

Legend

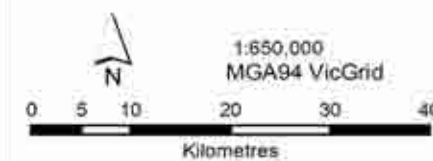
- Bioregion
- Other Bioregion
- Updated Parks
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourses
- Lakes

EVC Bioregional Conservation Status

- Endangered
- Vulnerable
- Depleted
- Rare
- Least Concern



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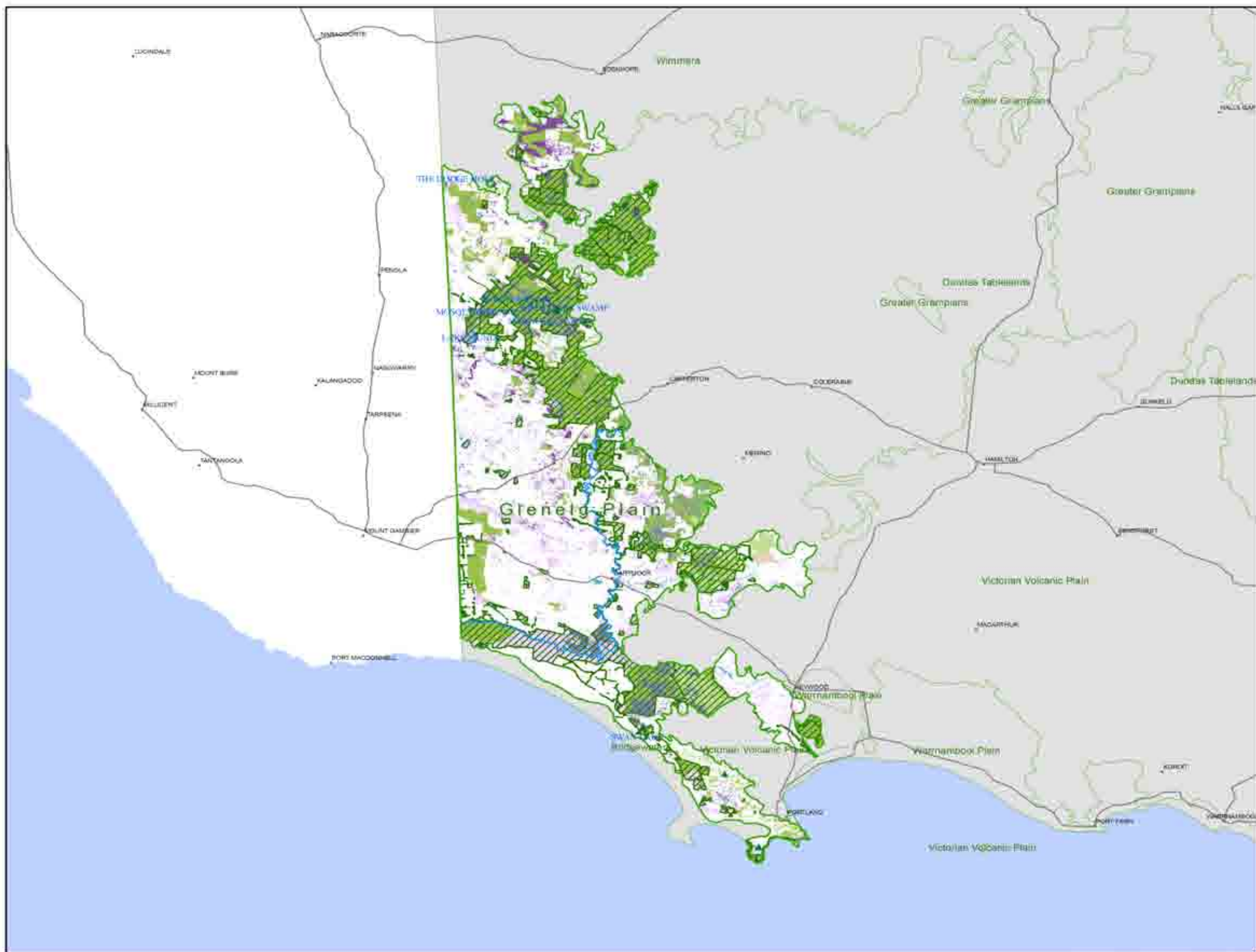
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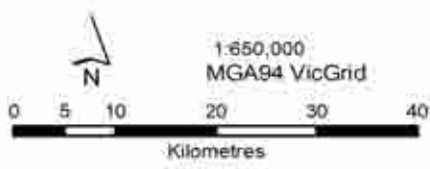


Terrestrial Biodiversity Review



**Glenelg Plain
Bioregional Map 2b:
EVC Groups**

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- EVC Group**
- Coastal Scrubs Grasslands and Woodlands
 - Healthy Woodlands
 - Lowland Forests
 - Box Ironbark Forests or dry/low fertility Woodlands
 - Lower Slopes or Hills Woodlands
 - Dry Forests
 - Wet or Damp Forests
 - Riparian Scrubs or Swampy Scrubs and Woodlands
 - Rainforests
 - Montane Grasslands, Shrublands or Woodlands
 - Sub-alpine Grasslands, Shrublands or Woodlands
 - Plains Grasslands and Chenopod Shrublands
 - Plains Woodlands or Forests
 - Riverine Grassy Woodlands or Forests
 - Herb-rich Woodlands
 - Heathlands
 - Mallee
 - Wetlands
 - Salt-tolerant and/or succulent Shrublands
 - Rocky Outcrop or Escarpment Scrubs
 - No native vegetation recorded



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Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Glenelg Plain	3	Damp Sands Herb-rich Woodland	15	Herb-rich Woodlands	Vulnerable	73848	6577	2874	9451	1807	0	6577	0	11305	22563	30.6	41.9	12.8
Glenelg Plain	5	Coastal Sand Heathland	16	Heathlands	Rare	33	17	0	17	16	0	17	0	0	33	100.0	51.8	51.8
Glenelg Plain	6	Sand Heathland	16	Heathlands	Rare	1387	677	443	1120	55	0	677	0	56	1232	88.8	90.9	80.8
Glenelg Plain	8	Wet Heathland	16	Heathlands	Least Concern	4591	3157	595	3752	26	0	3157	0	211	3989	86.9	94.1	81.7
Glenelg Plain	13	Brackish Sedgeland	18	Wetlands	Vulnerable	127	117	0	117	6	0	117	0	2	125	98.2	94.0	92.3
Glenelg Plain	16	Lowland Forest	3	Lowland Forests	Least Concern	12418	4862	3416	8278	1345	0	4862	0	770	10393	83.7	79.7	66.7
Glenelg Plain	18	Riparian Forest	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	617	21	47	68	280	0	21	0	127	474	76.8	14.2	10.9
Glenelg Plain	23	Herb-rich Foothill Forest	6	Dry Forests	Vulnerable	4892	159	614	773	183	0	159	0	847	1803	36.9	42.9	15.8
Glenelg Plain	30	Wet Forest	7	Wet or Damp Forests	Least Concern	10	10	0	10	0	0	10	0	0	10	100.0	100.0	100.0
Glenelg Plain	48	Heathy Woodland	2	Heathy Woodlands	Least Concern	60039	13650	28520	42170	2643	0	13650	0	5108	49921	83.1	84.5	70.2
Glenelg Plain	53	Swamp Scrub	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	3875	120	198	318	312	0	120	0	605	1235	31.9	25.8	8.2
Glenelg Plain	55	Plains Grassy Woodland	13	Plains Woodlands or Forests	Endangered	41220	93	366	460	77	0	93	0	4874	5411	13.1	8.5	1.1
Glenelg Plain	56	Floodplain Riparian Woodland	14	Riverine Grassy Woodlands or Forests	Vulnerable	1870	55	0	55	267	0	55	0	626	948	50.7	5.8	3.0
Glenelg Plain	68	Creekline Grassy Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	13	0	0	0	1	0	0	0	7	8	57.6	0.0	0.0
Glenelg Plain	71	Hills Herb-rich Woodland	5	Lower Slopes or Hills Woodlands	Vulnerable	145	60	0	60	0	0	60	0	63	123	84.9	48.6	41.3
Glenelg Plain	125	Plains Grassy Wetland	18	Wetlands	Endangered	70	0	31	31	0	0	0	0	13	44	63.6	69.5	44.2
Glenelg Plain	133	Limestone Pomaderris Shrubland	20	Rocky Outcrop or Escarpment Scrubs	Vulnerable	4	4	0	4	0	0	4	0	0	4	100.0	100.0	100.0
Glenelg Plain	136	Sedge Wetland	18	Wetlands	Vulnerable	3404	424	824	1248	123	0	424	0	723	2095	61.5	59.6	36.7
Glenelg Plain	155	Bird Colony Succulent Herbland	1	Coastal Scrubs Grasslands and Woodlands	Vulnerable	1	1	0	1	0	0	1	0	0	1	100.0	100.0	100.0
Glenelg Plain	160	Coastal Dune Scrub	1	Coastal Scrubs Grasslands and Woodlands	not applicable	0	0	0	0	0	0	0	0	0	0	54.4	0.0	0.0
Glenelg Plain	161	Coastal Headland Scrub	1	Coastal Scrubs Grasslands and Woodlands	Endangered	508	232	0	232	118	0	232	0	128	478	94.1	48.5	45.7
Glenelg Plain	164	Creekline Herb-rich Woodland	15	Herb-rich Woodlands	Endangered	2	2	0	2	0	0	2	0	0	2	100.0	100.0	100.0
Glenelg Plain	179	Heathy Herb-rich Woodland	2	Heathy Woodlands	Depleted	27443	4785	5272	10057	1069	0	4785	0	4465	15591	56.8	64.5	36.6
Glenelg Plain	191	Riparian Scrub	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Depleted	2471	554	931	1485	133	0	554	0	278	1896	76.7	78.3	60.1
Glenelg Plain	195	Seasonally Inundated Shrubby Woodland	5	Lower Slopes or Hills Woodlands	Endangered	481	13	57	70	1	0	13	0	209	280	58.2	25.0	14.5
Glenelg Plain	198	Sedgy Riparian Woodland	14	Riverine Grassy Woodlands or Forests	Vulnerable	28	5	0	5	9	0	5	0	0	14	49.9	33.9	16.9
Glenelg Plain	200	Shallow Freshwater Marsh	18	Wetlands	Endangered	975	49	51	100	30	0	49	0	199	329	33.7	30.4	10.2
Glenelg Plain	283	Plains Sedgy Woodland	13	Plains Woodlands or Forests	Vulnerable	78	0	30	30	0	0	0	0	22	51	66.1	57.9	38.2
Glenelg Plain	292	Red Gum Swamp	18	Wetlands	Endangered	0	1	183	184	16	0	1	0	878	1078	0.0	17.1	0.0
Glenelg Plain	292	Red Gum Wetland	18	Wetlands		7894	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Glenelg Plain	636	Brackish Lake Aggregate	19	Salt-tolerant and/or succulent Shrublands	Depleted	0	0	8	8	0	0	0	0	0	8	0.0	100.0	0.0
Glenelg Plain	636	Brackish Lake Mosaic	19	Salt-tolerant and/or succulent Shrublands		8	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Glenelg Plain	640	Creekline Sedgy Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	7	0	0	0	0	0	0	0	6	7	99.8	0.5	0.5
Glenelg Plain	641	Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	743	133	17	150	288	0	133	0	221	659	88.7	22.7	20.2
Glenelg Plain	642	Basalt Shrubby Woodland	13	Plains Woodlands or Forests	Endangered	15	0	0	0	0	0	0	0	0	0	1.6	0.0	0.0
Glenelg Plain	643	Brackish Drainage-line Aggregate	18	Wetlands	Endangered	0	0	0	0	0	0	0	9	0	9	0.0	0.0	0.0
Glenelg Plain	643	Brackish Drainage-line Herbland-Sedgeland	18	Wetlands		32	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Glenelg Plain	645	Wet Heathland/Heathy Woodland Mosaic	16	Heathlands	Least Concern	5303	3114	22	3136	15	0	3114	0	703	3854	72.7	81.4	59.1
Glenelg Plain	647	Plains Sedgy Wetland	18	Wetlands	Endangered	588	0	84	84	8	0	0	0	141	233	39.6	35.9	14.2
Glenelg Plain	650	Heathy Woodland/Damp Heathy Woodland/Damp Heathland Mosaic	2	Heathy Woodlands	Vulnerable	25524	2382	8200	10581	704	0	2382	0	4392	15678	61.4	67.5	41.5
Glenelg Plain	651	Plains Swampy Woodland	13	Plains Woodlands or Forests	Endangered	681	0	15	15	0	0	0	0	99	114	16.7	13.4	2.2



Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Glenelg Plain	652	Lunette Woodland	13	Plains Woodlands or Forests	Endangered	252	1	3	4	3	0	1	0	24	30	12.0	11.9	1.4
Glenelg Plain	653	Aquatic Herbland	18	Wetlands	Endangered	1011	76	147	223	6	0	76	0	339	567	56.1	39.3	22.0
Glenelg Plain	656	Brackish Wetland	18	Wetlands	Vulnerable	208	185	11	196	0	0	185	0	1	198	95.0	99.3	94.3
Glenelg Plain	657	Freshwater Lignum Shrubland	13	Plains Woodlands or Forests	Endangered	51	0	28	28	0	0	0	0	23	51	98.5	54.9	54.1
Glenelg Plain	664	Limestone Ridge Woodland	2	Heathy Woodlands	Vulnerable	29	22	0	22	0	0	22	0	7	29	100.0	76.4	76.4
Glenelg Plain	665	Coastal Mallee Scrub	1	Coastal Scrubs Grasslands and Woodlands	Endangered	597	197	0	197	3	0	197	0	168	368	61.6	53.5	33.0
Glenelg Plain	669	Escarpment Shrubland/Damp Sands Herb-rich Woodland/Riparian Woodland/Swamp Scrub Mosaic	15	Herb-rich Woodlands	Endangered	275	275	0	275	0	0	275	0	0	275	99.8	100.0	99.8
Glenelg Plain	670	Limestone Woodland	2	Heathy Woodlands	Vulnerable	73	72	0	72	0	0	72	0	1	73	100.0	98.9	98.9
Glenelg Plain	674	Sandy Stream Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	16	0	0	0	0	0	0	12	0	12	77.2	0.0	0.0
Glenelg Plain	675	Escarpment Shrubland/Damp Sands Herb-rich Woodland/Swamp Scrub Mosaic	15	Herb-rich Woodlands	Endangered	157	155	0	155	0	0	155	0	1	156	99.7	99.2	99.0
Glenelg Plain	680	Freshwater Meadow	18	Wetlands	Endangered	860	34	37	71	13	0	34	0	179	263	30.6	27.0	8.3
Glenelg Plain	681	Deep Freshwater Marsh	18	Wetlands		817	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Glenelg Plain	681	Deep Freshwater Marsh	18	Wetlands	Vulnerable	817	198	34	233	0	0	198	0	167	399	48.9	58.3	28.5
Glenelg Plain	691	Aquatic Herbland/Plains Sedgy Wetland Mosaic	18	Wetlands	Endangered	4969	438	154	592	7	0	438	0	729	1328	26.7	44.6	11.9
Glenelg Plain	704	Lateritic Woodland	2	Heathy Woodlands	Vulnerable	99	85	12	97	0	0	85	0	1	99	100.0	98.7	98.7
Glenelg Plain	707	Sedgy Swamp Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	356	0	10	10	24	0	0	0	126	161	45.1	6.1	2.8
Glenelg Plain	710	Damp Heathland	16	Heathlands	Depleted	7237	1877	2928	4805	146	0	1877	0	581	5532	76.4	86.9	66.4
Glenelg Plain	713	Damp Sands Herb-rich Woodland/Damp Heathland/Damp Heathy Woodland Mosaic	15	Herb-rich Woodlands	Vulnerable	27676	180	262	442	234	0	180	0	3696	4373	15.8	10.1	1.6
Glenelg Plain	719	Grassy Woodland/Damp Sands Herb-rich Woodland Mosaic	15	Herb-rich Woodlands	Vulnerable	1027	0	126	126	28	0	0	0	197	351	34.2	35.8	12.2
Glenelg Plain	725	Damp Sands Herb-rich Woodland/Riparian Woodland/Swamp Scrub Mosaic	15	Herb-rich Woodlands	Vulnerable	417	380	0	380	22	0	380	0	12	414	99.2	91.8	91.1
Glenelg Plain	732	Damp Sands Herb-rich Woodland/Plains Swampy Woodland/Aquatic Herbland Mosaic	15	Herb-rich Woodlands	Vulnerable	2119	0	14	14	0	0	0	0	507	521	24.6	2.7	0.7
Glenelg Plain	733	Swamp Scrub/Plains Sedgy Wetland/Aquatic Herbland Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	97	0	0	0	22	0	0	0	19	42	43.1	0.0	0.0
Glenelg Plain	734	Damp Heathland/Damp Heathy Woodland/Wet Heathland Mosaic	16	Heathlands	Vulnerable	935	19	533	551	12	0	19	0	46	609	65.2	90.4	59.0
Glenelg Plain	736	Limestone Rise Grassland/Limestone Rise Woodland Mosaic	5	Lower Slopes or Hills Woodlands	Vulnerable	98	0	97	97	0	0	0	0	0	97	98.8	99.3	98.1
Glenelg Plain	737	Heathy Woodland/Limestone Woodland Mosaic	2	Heathy Woodlands	Vulnerable	3593	2824	395	3219	0	0	2824	0	183	3402	94.7	94.6	89.6
Glenelg Plain	738	Damp Sands Herb-rich Woodland/Plains Grassy Woodland/Plains Sedgy Wetland Mosaic	15	Herb-rich Woodlands	Endangered	139	0	102	102	0	0	0	0	27	130	92.9	79.0	73.4
Glenelg Plain	739	Plains Grassy Woodland/Plains Swampy Woodland Mosaic	13	Plains Woodlands or Forests	Endangered	5391	13	26	39	24	0	13	0	455	518	9.6	7.5	0.7
Glenelg Plain	740	Damp Sands Herb-rich Woodland/Heathy Woodland/Sand Heathland Mosaic	15	Herb-rich Woodlands	Vulnerable	1009	958	0	958	2	0	958	0	15	974	96.6	98.3	94.9
Glenelg Plain	746	Damp Heathland/Damp Heathy Woodland Mosaic	16	Heathlands	Depleted	12457	537	2849	3386	209	0	537	0	1572	5167	41.5	65.5	27.2
Glenelg Plain	750	Shallow Sands Woodland/Plains Sedgy Woodland/Seasonally Inundated Shrubby Woodland/Damp Sands Herb-rich Woodland Mosaic	13	Plains Woodlands or Forests	Vulnerable	11738	378	2508	2886	0	0	378	0	2826	5712	48.7	50.5	24.6
Glenelg Plain	751	Seasonally Inundated Shrubby Woodland/Plains Sedgy Woodland Mosaic	5	Lower Slopes or Hills Woodlands	Endangered	2227	72	270	342	2	0	72	0	501	844	37.9	40.5	15.4
Glenelg Plain	752	Grassy Woodland/Hills Herb-rich Woodland/Damp Sands Herb-rich Woodland Mosaic	15	Herb-rich Woodlands	Endangered	3	3	0	3	0	0	3	0	0	3	99.4	98.6	98.1
Glenelg Plain	756	Heathy Woodland/Seasonally Inundated Shrubby Woodland Mosaic	2	Heathy Woodlands	Endangered	403	0	130	130	0	0	0	0	23	153	38.0	85.0	32.3
Glenelg Plain	757	Damp Sands Herb-rich Woodland/Seasonally Inundated Shrubby Woodland Mosaic	15	Herb-rich Woodlands	Vulnerable	114	112	0	112	0	0	112	0	2	114	100.0	98.4	98.4
Glenelg Plain	762	Damp Heathland/Sand Heathland Mosaic	16	Heathlands	Depleted	813	0	663	663	124	0	0	0	1	788	96.9	84.2	81.6
Glenelg Plain	763	Damp Heathland/Damp Heathy Woodland/Seasonally Inundated Shrubby Woodland Mosaic	16	Heathlands	Vulnerable	1452	0	0	0	1	0	0	0	177	178	12.3	0.1	0.0
Glenelg Plain	764	Lateritic Woodland/Heathy Woodland Mosaic	2	Heathy Woodlands	Vulnerable	29	0	29	29	0	0	0	0	0	29	100.0	100.0	100.0

Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Glenelg Plain	770	Damp Sands Herb-rich Woodland/Lowland Forest Mosaic	15	Herb-rich Woodlands	Vulnerable	1789	50	323	373	471	0	50	0	201	1044	58.4	35.7	20.8
Glenelg Plain	776	Plains Swampy Woodland/Swamp Scrub Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	953	6	0	6	23	0	6	0	51	81	8.5	8.0	0.7
Glenelg Plain	781	Damp Sands Herb-rich Woodland/Herb-rich Foothill Forest Mosaic	15	Herb-rich Woodlands	Vulnerable	2528	0	203	203	43	0	0	0	194	441	17.4	46.1	8.0
Glenelg Plain	785	Heathy Herb-rich Woodland/Damp Sands Herb-rich Woodland Mosaic	15	Herb-rich Woodlands	Vulnerable	4549	168	3	170	33	0	168	0	236	439	9.6	38.8	3.7
Glenelg Plain	786	Heathy Woodland/Heathy Herb-rich Woodland/Damp Heathy Woodland Mosaic	2	Heathy Woodlands	Vulnerable	3468	0	1876	1876	732	0	0	0	60	2667	76.9	70.3	54.1
Glenelg Plain	791	Damp Sands Herb-rich Woodland/Plains Grassy Woodland Complex	13	Plains Woodlands or Forests		37	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Glenelg Plain	793	Damp Heathy Woodland	2	Heathy Woodlands	Depleted	2528	96	482	577	73	0	96	0	445	1095	43.3	52.7	22.8
Glenelg Plain	803	Plains Woodland	13	Plains Woodlands or Forests	Endangered	1195	24	10	34	0	0	24	0	382	416	34.8	8.2	2.9
Glenelg Plain	858	Coastal Alkaline Scrub	1	Coastal Scrubs Grasslands and Woodlands	Endangered	92	45	4	49	0	0	45	0	18	67	73.1	73.0	53.4
Glenelg Plain	876	Spray-zone Coastal Shrubland	1	Coastal Scrubs Grasslands and Woodlands	Endangered	25	21	0	21	3	0	21	0	1	25	97.7	86.7	84.7
Glenelg Plain	881	Damp Sands Herb-rich Woodland/Heathy Woodland Mosaic	15	Herb-rich Woodlands	Vulnerable	5746	3521	267	3788	303	0	3521	0	720	4811	83.7	78.7	65.9
Glenelg Plain	882	Shallow Sands Woodland	13	Plains Woodlands or Forests	Vulnerable	1762	254	511	765	0	0	254	0	467	1233	70.0	62.1	43.4
Glenelg Plain	885	Damp Sands Herb-rich Woodland/Plains Grassy Woodland Mosaic	15	Herb-rich Woodlands	Endangered	1270	20	172	192	42	0	20	0	367	600	47.3	31.9	15.1
Glenelg Plain	892	Heathy Woodland/Sand Heathland Mosaic	2	Heathy Woodlands	Least Concern	2688	2	328	330	52	0	2	0	373	755	28.1	43.7	12.3
Glenelg Plain	895	Escarpment Shrubland	13	Plains Woodlands or Forests	Endangered	73	3	0	3	14	0	3	0	41	58	79.8	5.9	4.7
Total						399,608	54,574	68,344	122,918	12,202	0	54,574	22	53,240	188,382	47.1%	29.0%	13.7%



7. Bridgewater

Bioregion size: 18 208 ha
 Native vegetation cover: 12 852 ha (71%)
 Conservation reserve cover (excludes State Forests): 9 833 ha (77%)

Conservation Priorities

Little native vegetation on non-conservation public land is available in the Bioregion to increase the percentage of native vegetation under protection. Conservation priority should be given to areas known to provide habitat for the Critically Endangered Orange Bellied Parrot.

Bridgewater Bioregion (Brid) covers approximately 18 208 ha, in a 5 km wide strip of coastline along Cape Bridgewater, stretching from Cape Nelson and the South Australian Border. The Bioregion is Sub-region NCP1, of the Narracoorte Coastal Plain Interim Biogeographic Regionalisation of Australia (IBRA) Bioregion. The majority of the Bridgewater Bioregion is within the Discovery Bay Coastal Park, and lies entirely within the Glenelg Hopkins Catchment Management Authority (CMA) area, which will become a part of the Western Districts Natural Resources and Catchment Authority (NRCA) in 2011. The Bioregion is typified by dune-capped sand ridges forming a barrier complex, with a lagoon system supporting a 12 Ecological Vegetation Classes (EVCs), four (4) of which have a Bioregional Conservation Status (BCS) of Endangered.



Figure 7-2 Protected Areas – Bridgewater

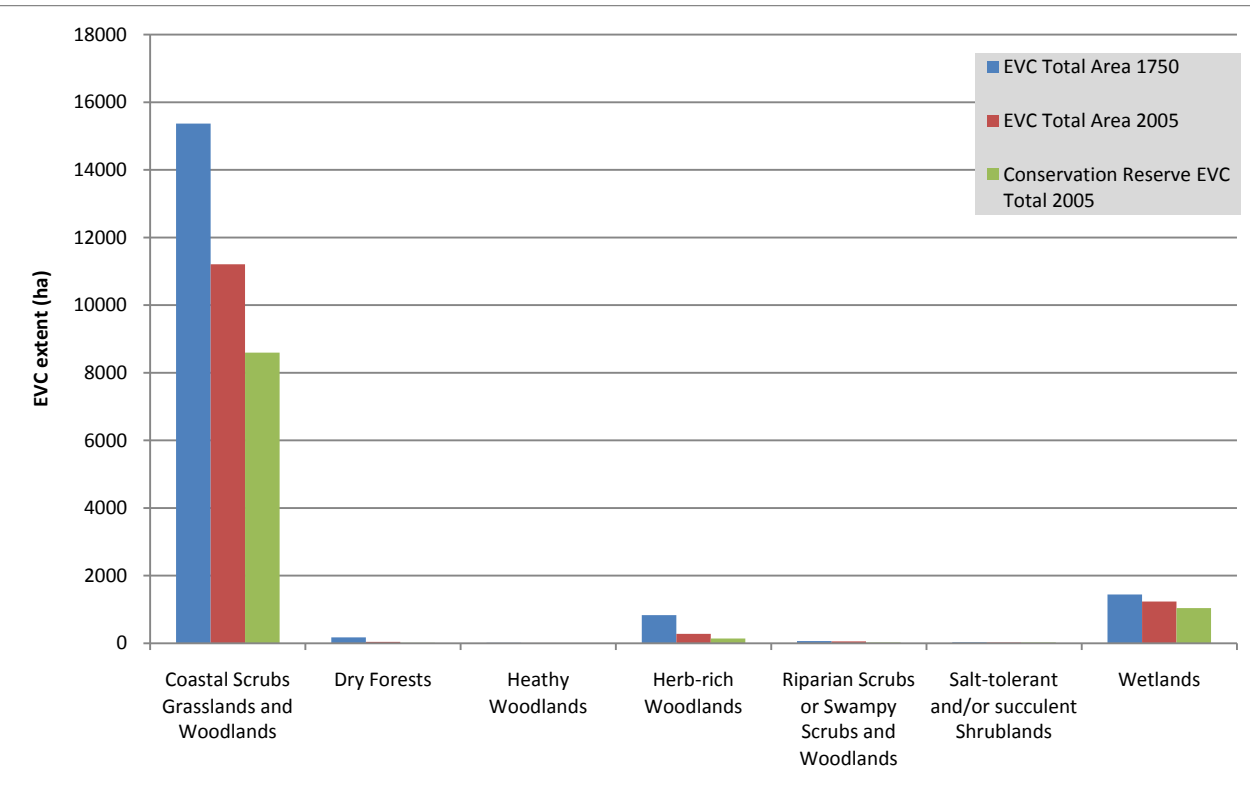


Figure 7-1 EVC Group Breakdown

Since European settlement, approximately 29% of this bioregion has been cleared, with 77% of the remaining vegetation in the Bioregion protected in Crown land for conservation. Of particular note is Endangered EVC 200 - Shallow Freshwater Marsh, where 83% of the Pre-1750 EVC extent remains, yet less than 0.5% of this remnant vegetation is protected on conservation land. The Bioregion supports the nationally significant Orange-bellied Parrot (*Neophema chrysogaster*), listed as Critically Endangered under the Commonwealth Environment Protection and Biodiversity Conservation (EPBC) Act, Loggerhead Turtle (*Caretta caretta*), listed as Endangered, and Growling Grass Frog (*Litoria raniformis*), listed as Vulnerable. Twelve (12) migratory species and 14 listed marine species are also known in the area. The coastal dune complex of the Bioregion is backed by cleared land and softwood plantation. Agriculture is the predominate land use activity in the region, while coastal development for tourism purposes is also increasing. Ongoing threats to this Bioregion include increased sedimentation of rivers, loss of woody vegetation from riparian zones, and the spread and establishment of non-indigenous species. As this Bioregion is entirely coastal, it is likely to suffer from impacts of climate change, particularly rising sea levels, which will be compounded by land-based changes of reduced freshwater flows, increased salinity, and an altered fire regime.

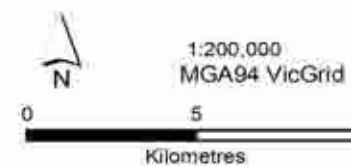
Bridgewater Bioregional Map 1a: Landscape Priorities

Legend

- Bioregion
 - Other Bioregion
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- Landscape Importance**
-
- High 20
Low 1



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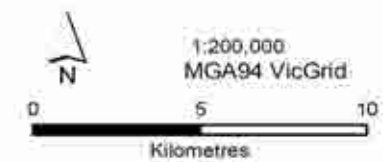
**Bridgewater
Bioregional Map 1b:
Protected Areas**

Legend

- Bioregion
- Other Bioregion
- Updated Parks
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes



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Bridgewater Bioregional Map 2a: Vegetation Conservation Significance

Legend

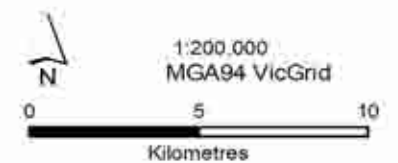
- Bioregion
- Other Bioregion
- Updated Parks
- Conservation Covered Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes

EVC Bioregional Conservation Status

- Endangered
- Vulnerable
- Depleted
- Rare
- Least Concern



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**Bridgewater
Bioregional Map 2b:
EVC Groups**

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- EVC Group**
- Coastal Scrubs Grasslands and Woodlands
 - Healthy Woodlands
 - Lowland Forests
 - Box Ironbark Forests or dry/lower fertility Woodlands
 - Lower Slopes or Hills Woodlands
 - Dry Forests
 - Wet or Damp Forests
 - Riparian Scrubs or Swampy Scrubs and Woodlands
 - Rainforests
 - Montane Grasslands, Shrublands or Woodlands
 - Sub-alpine Grasslands, Shrublands or Woodlands
 - Plains Grasslands and Chenopod Shrublands
 - Plains Woodlands or Forests
 - Riparian Grassy Woodlands or Forests
 - Herb-rich Woodlands
 - Heathlands
 - Mallee
 - Wetlands
 - Salt-tolerant and/or succulent Shrublands
 - Rocky Outcrop or Escarpment Scrubs
 - No native vegetation recorded



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Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Bridgewater	3	Damp Sands Herb-rich Woodland	15	Herb-rich Woodlands	Vulnerable	834	141	4	144	4	0	141	0	130	278	33.4	51.9	17.3
Bridgewater	9	Coastal Saltmarsh	19	Salt-tolerant and/or succulent Shrublands	Vulnerable	26	21	0	21	0	0	21	0	4	25	96.8	83.0	80.3
Bridgewater	10	Estuarine Wetland	18	Wetlands	Endangered	5	5	0	5	0	0	5	0	0	5	100.0	100.0	100.0
Bridgewater	23	Herb-rich Foothill Forest	6	Dry Forests	Vulnerable	176	14	0	14	0	0	14	0	28	42	23.7	33.0	7.8
Bridgewater	53	Swamp Scrub	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	65	21	0	21	0	0	21	0	36	57	88.0	37.1	32.7
Bridgewater	160	Coastal Dune Scrub	1	Coastal Scrubs Grasslands and Woodlands	Least Concern	1665	1556	0	1556	0	0	1556	0	53	1610	96.7	96.7	93.5
Bridgewater	161	Coastal Headland Scrub	1	Coastal Scrubs Grasslands and Woodlands	Vulnerable	182	119	0	119	0	0	119	0	32	151	83.0	79.0	65.6
Bridgewater	200	Shallow Freshwater Marsh	18	Wetlands	Endangered	28	0	0	0	0	0	0	0	23	23	82.7	1.3	1.1
Bridgewater	650	Heathy Woodland/Damp Heathy Woodland/Damp Heathland Mosaic	2	Heathy Woodlands	Vulnerable	12	0	0	0	0	0	0	7	0	7	61.9	0.0	0.0
Bridgewater	680	Freshwater Meadow	18	Wetlands	Endangered	11	10	0	10	0	0	10	0	0	10	89.0	100.0	89.0
Bridgewater	681	Deep Freshwater Marsh	18	Wetlands	Vulnerable	1399	1024	0	1024	9	0	1024	0	163	1196	85.5	85.7	73.2
Bridgewater	858	Coastal Alkaline Scrub	1	Coastal Scrubs Grasslands and Woodlands	Least Concern	13442	6851	256	7107	3	0	6851	0	2261	9371	69.7	75.8	52.9
Bridgewater	876	Spray-zone Coastal Shrubland	1	Coastal Scrubs Grasslands and Woodlands	Rare	81	70	0	70	0	0	70	0	7	77	95.1	90.6	86.2
Total						17,926	9,833	260	10,093	16	0	9,833	7	2,736	12,853	71.7%	76.5%	54.9%

8. Victorian Volcanic Plain

Bioregion size: 2 355 732 ha
 Native vegetation cover: 351 531 ha (15%)
 Conservation reserve cover (excludes State Forests): 38 735 ha (11%)

Conservation Priorities

Little native vegetation on non-conservation public land, however, what does remain include several Endangered EVCs, such as EVC 55 – Plains Grassy Woodland, EVC 56 - Floodplain Riparian Woodland, EVC 132 - Plains Grassland and EVC 851 - Stream Bank Shrubland. Additionally, Plains Woodlands and Plains Grassland provide habitat for EPBC listed species and should be given conservation priority.

The Victorian Volcanic Plain (VVP) Bioregion covers approximately 2 355 732 ha, and ranges from Hamilton and Portland in the west, across to Ballarat, Geelong and Melbourne in the east. The landscape is dominated by volcanic deposits, which have formed a flat to undulating basaltic plain, with occasional stony outcrops. The VVP is also classified as Interim Biogeographic Regionalisation of Australia (IBRA) Sub-region VVP1. The Bioregion cross most of south-western Victoria, and is within the areas of Glenelg Hopkins, Corangamite, Port Phillip and Westernport, and North Central Catchment Management Authorities (CMAs). There are two Ramsar listed sites in the VVP: Western District Lakes, and the Port Phillip Bay (Western Shoreline) and Bellarine Peninsula. Vast areas (75%) of the VVP have been cleared, as the once-dominant Grasslands and Grassy Woodlands were ideal for clearance and grazing, and more recently as population growth and development expands out of the major centres, particularly north of Geelong, as well as north and west of Melbourne. Remnant native vegetation in the VVP is severely under-represented in Victoria's reserve system, with only 1.7% of the Bioregion protected.

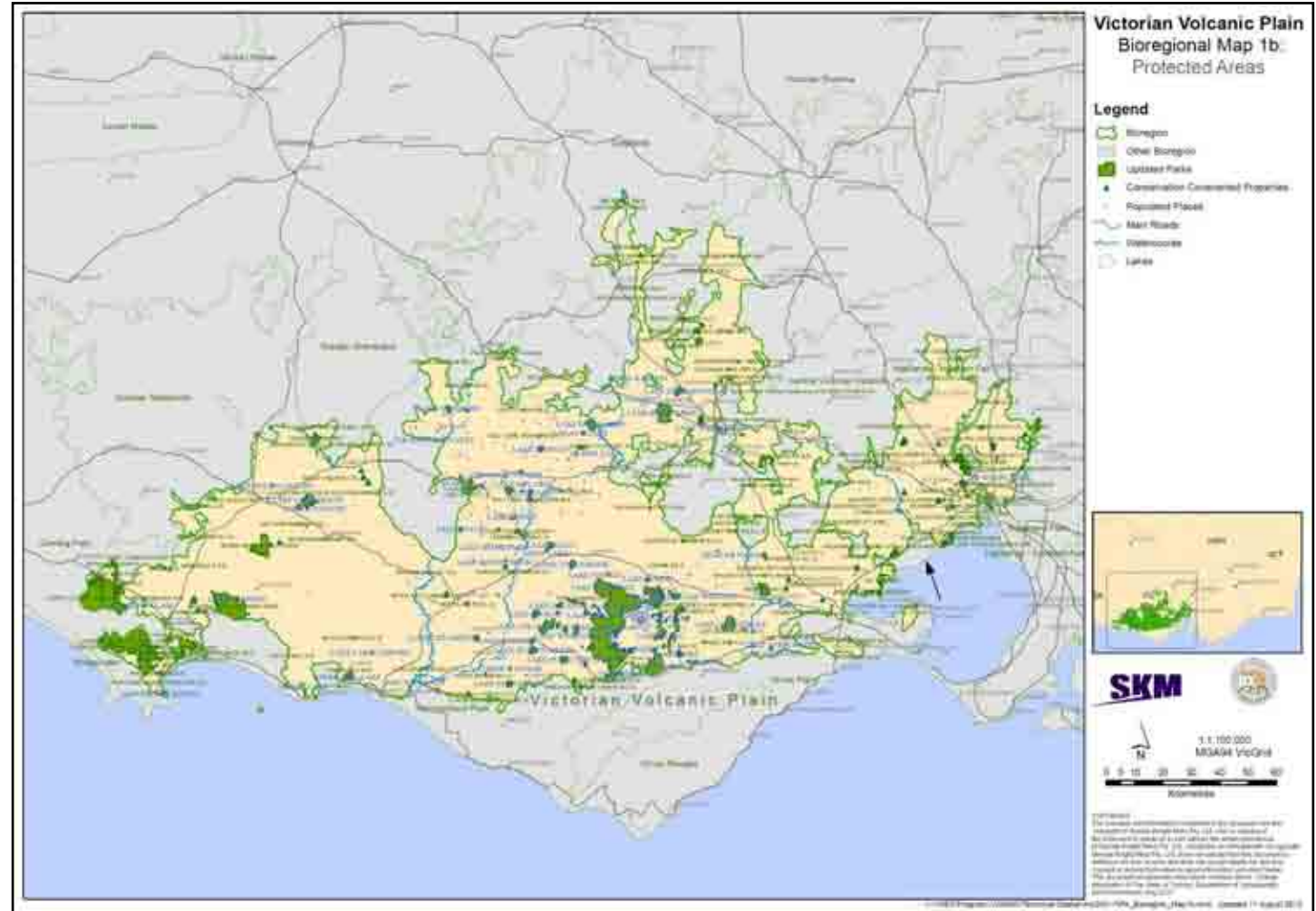


Figure 8-2 Protected Areas – Victorian Volcanic Plain

Of particular note are EVC 132 - Plains Grassland, and EVC 55 - Plains Grassy Woodland and EVC 175 - Grassy Woodland, all of which have a Bioregional Conservation Status of Endangered, and are synonymous with ecological communities listed under the Victorian Flora and Fauna Guarantee (FFG) Act, and Commonwealth Environment Protection and Biodiversity Conservation (EPBC) Act, as well as a large suite of grassland and grassy-woodland related flora and fauna species, including the Striped Legless Lizard (*Delma impar*), Growling Grass Frog (*Litoria raniformis*), Golden Sun-moth (*Synemon plana*), Matted Flax-lily (*Dianella amoena*) and Spiny Rice-flower (*Pimelea spinescens* subsp. *spinescens*). Many of these species are resident in the Organ Pipes National Park on the northern edge of Melbourne, as well as the Derrimut and Laverton Grasslands, however there is no single, large reserve for remnant native grassland. EPBC Act listed Grey Box Grassy Woodland and derived Native Grassland is present at Radar Hill, Tullamarine Airport, which is also a listed in the National Estate for its outstanding natural features. FFG Act listed Eastern Barred Bandicoot (*Perameles gunnii* unnamed subsp.) has been reintroduced to the area in several woodland locations across the Bioregion, including Woodlands Historic Park, Hamilton Community Parklands and Lake Goldsmith Wildlife Reserve, as part of an active recovery program. The Brolga (*Grus rubicunda*), also listed under the FFG Act, is distributed widely across the VVP. As part of expanding Melbourne's Urban Growth Boundary, a strategic 15 000 ha grassland reserve has been proposed by Melbourne's Growth Areas Authority to offset losses of native vegetation. High-quality Grassland and Grassy Woodland vegetation in the VVP has also been recognised on public land, such as in Cemeteries, on roadsides and railways, however these sensitive communities have not always been well managed, and many suffer from weed invasion on accidental destruction through a lack of recognition and protection.

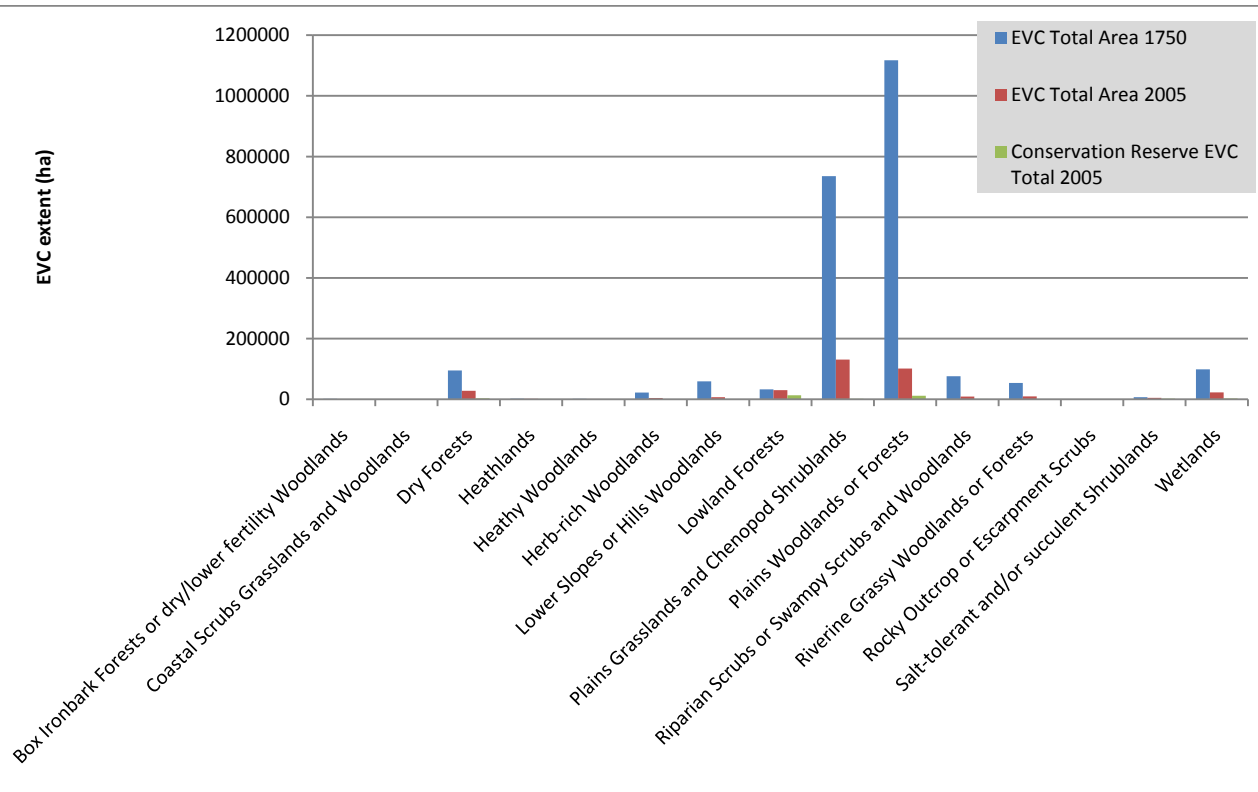
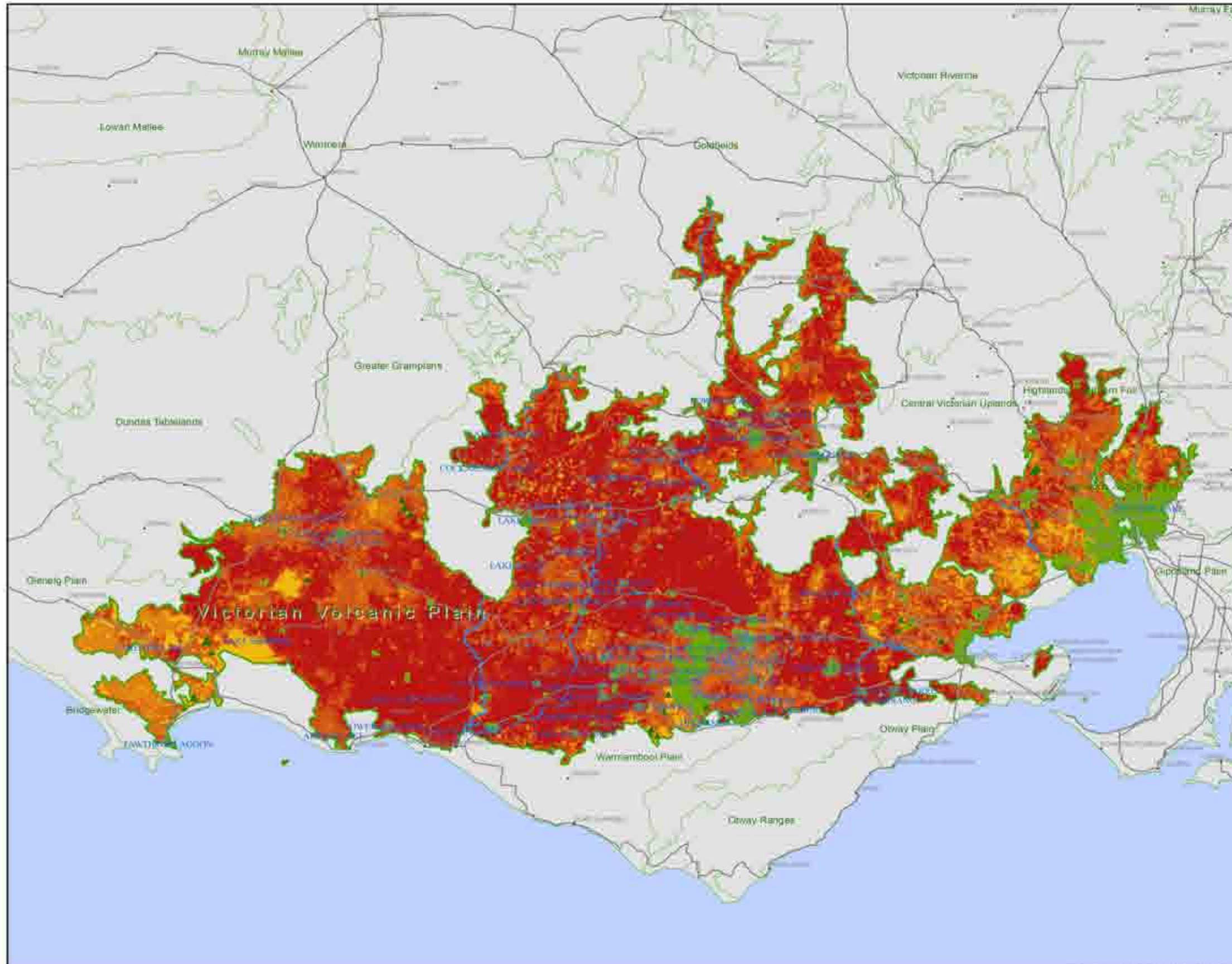


Figure 8-1 EVC Group Breakdown



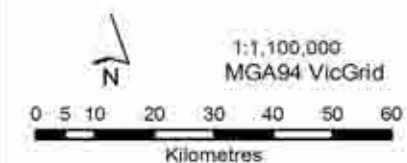
**Victorian Volcanic Plain
Bioregional Map 1a:
Landscape Priorities**

Legend

- Bioregion
 - Other Bioregion
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- Landscape Importance**
-
- High : 20
Low : 1



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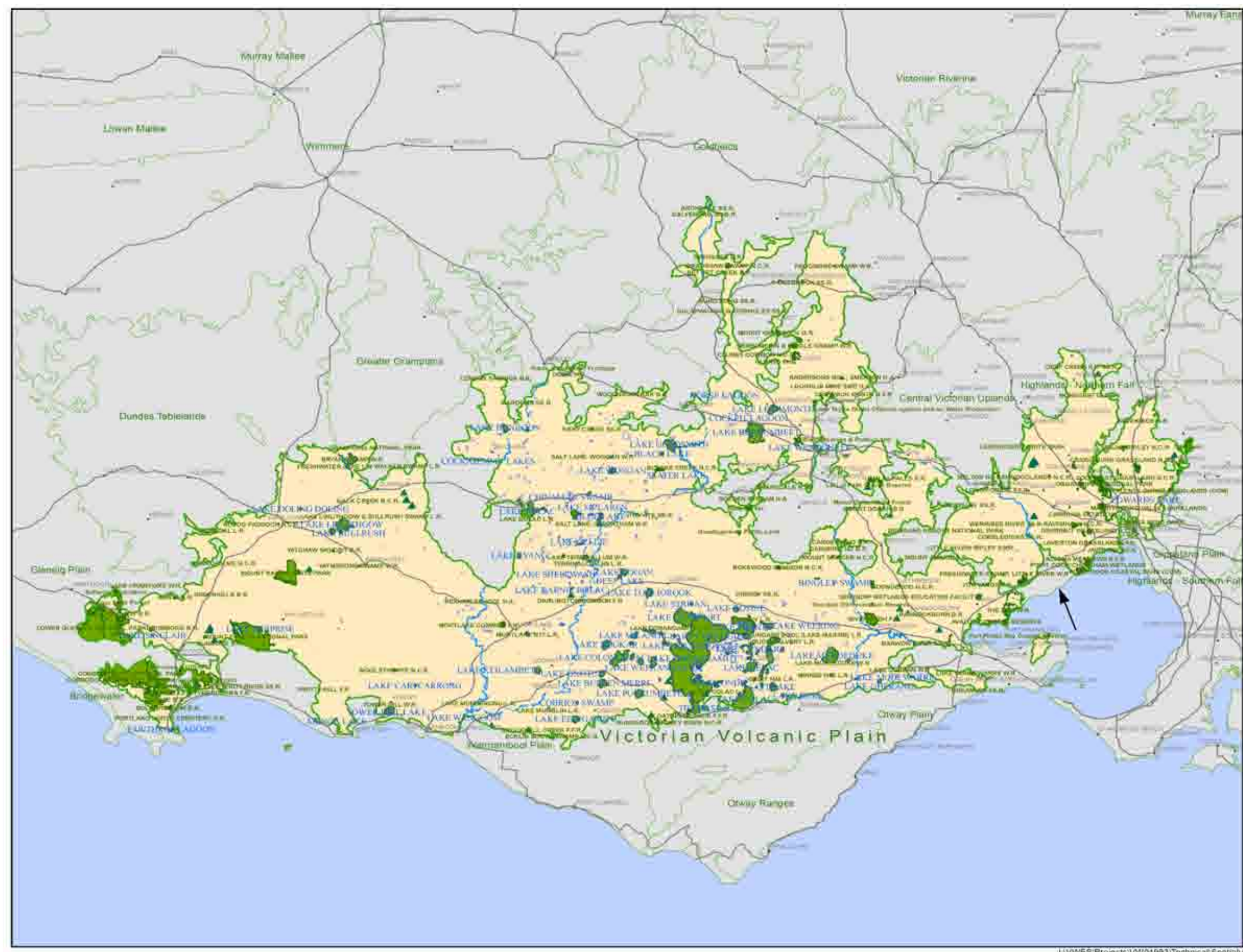
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Terrestrial Biodiversity Review



**Victorian Volcanic Plain
Bioregional Map 1b:
Protected Areas**

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes



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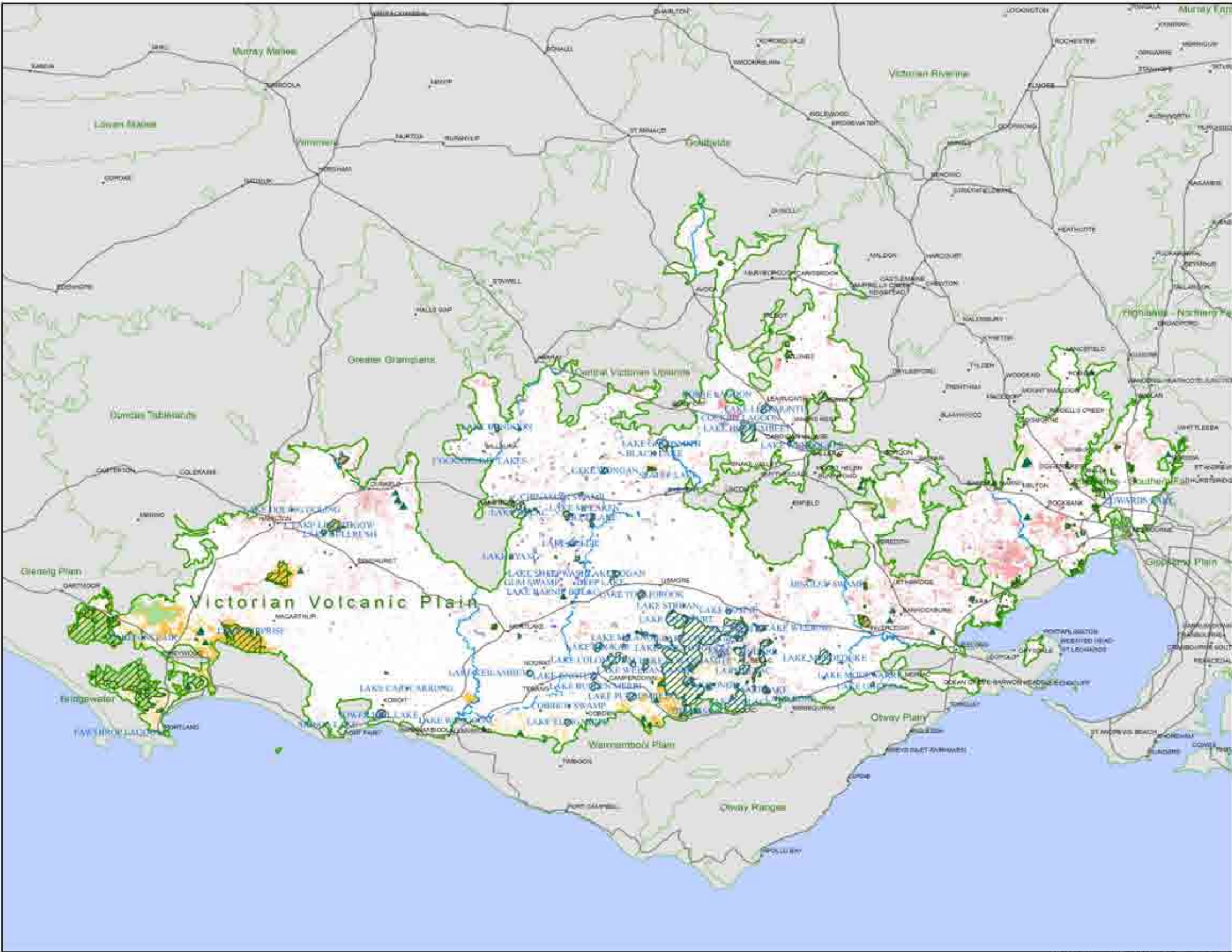
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Terrestrial Biodiversity Review



**Victorian Volcanic Plain
Bioregional Map 2a:
Vegetation Conservation
Significance**

Legend

- Bioregion
- Other Bioregion
- Updated Parks
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes

EVC Bioregional Conservation Status

- Endangered
- Vulnerable
- Depleted
- Rare
- Least Concern



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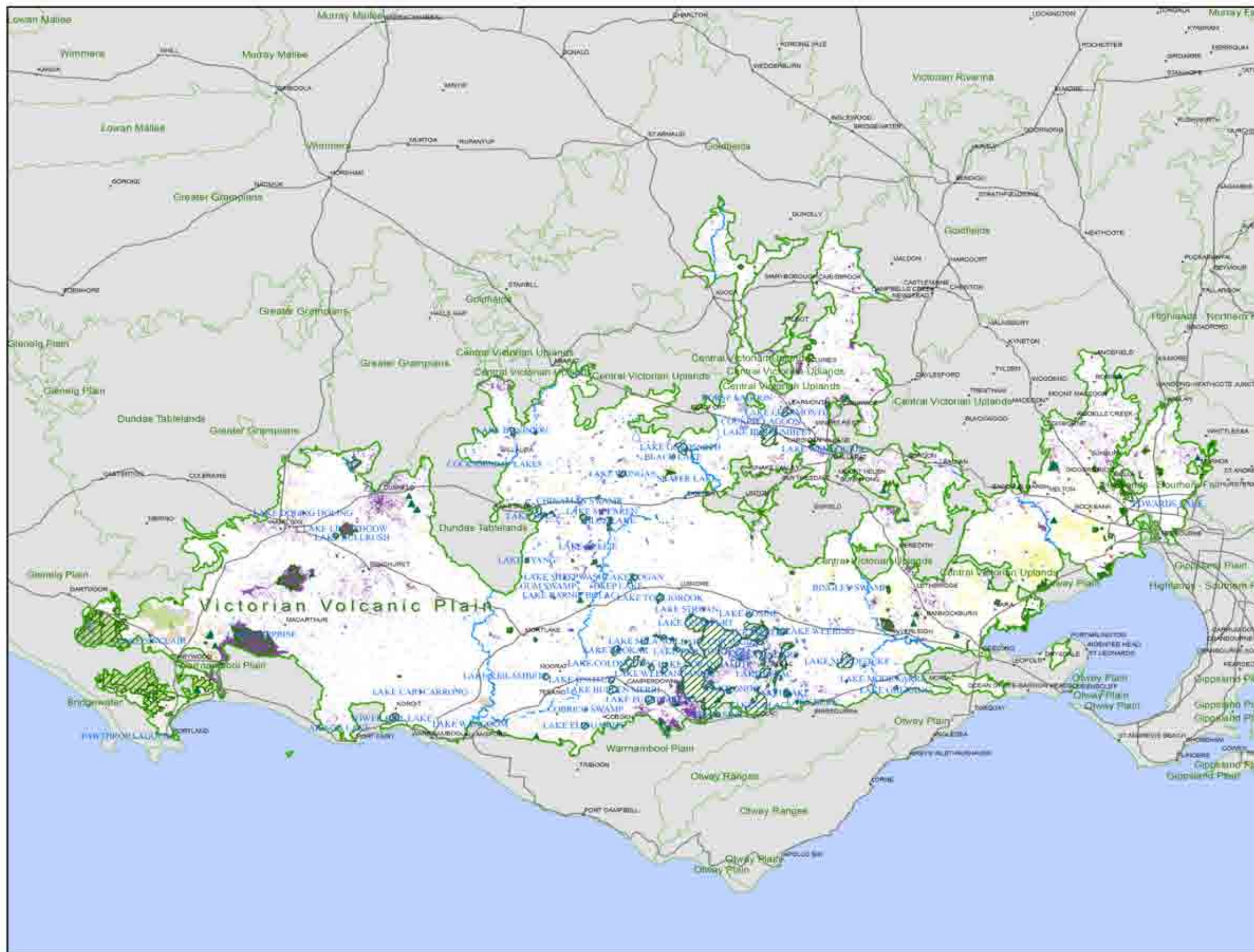
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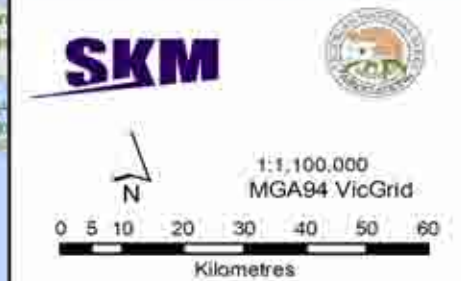


Terrestrial Biodiversity Review



**Victorian Volcanic Plain
Bioregional Map 2b:
EVC Groups**

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- EVC Group**
- Coastal Scrubs Grasslands and Woodlands
 - Heathy Woodlands
 - Lowland Forests
 - Box Ironbark Forests or dry/low fertility Woodlands
 - Lower Slopes or Hills Woodlands
 - Dry Forests
 - Wet or Damp Forests
 - Riparian Scrubs or Swampy Scrubs and Woodlands
 - Rainforests
 - Montane Grasslands, Shrublands or Woodlands
 - Sub-alpine Grasslands, Struoblands or Woodlands
 - Plains Grasslands and Chenopod Shrublands
 - Plains Woodlands or Forests
 - Riverine Grassy Woodlands or Forests
 - Herb-rich Woodlands
 - Heathlands
 - Mallee
 - Wetlands
 - Salt-tolerant and/or succulent Shrublands
 - Rocky Outcrop or Escarpment Scrubs
 - No native vegetation recorded



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Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
VVP	1	Coastal Dune Scrub/Coastal Dune Grassland Mosaic	1	Coastal Scrubs Grasslands and Woodlands	Depleted	6	4	0	4	0	0	4	0	0	4	79.9	98.7	78.8
VVP	3	Damp Sands Herb-rich Woodland	15	Herb-rich Woodlands	Vulnerable	4888	133	1028	1161	38	0	133	0	861	2061	42.2	56.3	23.8
VVP	6	Sand Heathland	16	Heathlands	Least Concern	23	0	21	21	0	0	0	0	1	22	95.9	96.0	92.1
VVP	8	Wet Heathland	16	Heathlands	Least Concern	539	510	0	510	8	0	510	0	2	520	96.4	98.1	94.6
VVP	9	Coastal Saltmarsh	19	Salt-tolerant and/or succulent Shrublands	Vulnerable	2299	14	0	14	654	0	14	0	391	1059	46.1	1.3	0.6
VVP	10	Estuarine Wetland	18	Wetlands	Endangered	42	0	0	0	19	0	0	0	1	19	46.1	0.0	0.0
VVP	16	Lowland Forest	3	Lowland Forests	Least Concern	32838	13313	7765	21078	7050	0	13313	0	1925	30053	91.5	70.1	64.2
VVP	17	Riparian Scrub/Swampy Riparian Woodland Complex	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	243	2	0	2	30	0	2	0	20	52	21.5	4.5	1.0
VVP	18	Riparian Forest	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	533	99	0	99	9	0	99	0	168	276	51.8	35.9	18.6
VVP	20	Heathy Dry Forest	6	Dry Forests	Least Concern	4099	7	556	562	45	0	7	0	1028	1635	39.9	34.4	13.7
VVP	21	Shrubby Dry Forest	6	Dry Forests	Least Concern	18	0	0	0	0	0	0	0	5	5	26.7	0.4	0.1
VVP	22	Grassy Dry Forest	6	Dry Forests	Depleted	6091	0	255	256	19	0	0	0	1255	1530	25.1	16.7	4.2
VVP	23	Herb-rich Foothill Forest	6	Dry Forests	Vulnerable	81329	3227	4289	7516	2007	0	3227	0	14357	23881	29.4	31.5	9.2
VVP	45	Shrubby Foothill Forest	6	Dry Forests	Depleted	2	0	0	0	0	0	0	2	0	2	99.6	0.0	0.0
VVP	47	Valley Grassy Forest	6	Dry Forests	Vulnerable	3504	25	79	105	63	0	25	0	901	1069	30.5	9.8	3.0
VVP	48	Heathy Woodland	2	Heathy Woodlands	Vulnerable	902	150	485	635	44	0	150	0	143	822	91.2	77.2	70.4
VVP	53	Swamp Scrub	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	29003	939	104	1043	202	0	939	0	2482	3727	12.9	28.0	3.6
VVP	55	Plains Grassy Woodland	13	Plains Woodlands or Forests	Endangered	801848	1570	86	1656	2566	0	1570	0	55646	59868	7.5	2.8	0.2
VVP	56	Floodplain Riparian Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	19426	165	0	165	338	0	165	0	3065	3568	18.4	4.6	0.8
VVP	61	Box Ironbark Forest	4	Box Ironbark Forests or dry/lower fertility Woodlands	Depleted	678	0	0	0	5	0	0	0	394	400	59.0	0.0	0.0
VVP	64	Rocky Chenopod Woodland	4	Box Ironbark Forests or dry/lower fertility Woodlands	Vulnerable	84	10	0	10	0	0	10	0	29	39	46.6	26.1	12.2
VVP	67	Alluvial Terraces Herb-rich Woodland	15	Herb-rich Woodlands	Endangered	249	0	0	0	6	0	0	0	77	83	33.2	0.0	0.0
VVP	68	Creepline Grassy Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	30710	56	0	56	683	0	56	0	4451	5189	16.9	1.1	0.2
VVP	71	Hills Herb-rich Woodland	5	Lower Slopes or Hills Woodlands	Vulnerable	1712	0	0	0	38	0	0	0	267	305	17.8	0.0	0.0
VVP	72	Granitic Hills Woodland	4	Box Ironbark Forests or dry/lower fertility Woodlands	Endangered	1152	0	0	0	0	0	0	0	188	188	16.4	0.0	0.0
VVP	73	Rocky Outcrop Shrubland/Rocky Outcrop Herbland Mosaic	20	Rocky Outcrop or Escarpment Scrubs	Vulnerable	15	0	0	0	0	0	0	6	0	6	40.0	0.0	0.0
VVP	74	Wetland Formation	18	Wetlands	Endangered	1779	430	0	430	4	0	430	0	445	880	49.5	48.9	24.2
VVP	68	Creepline Grassy Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	30710	56	0	56	683	0	56	0	4451	5189	16.9	1.1	0.2
VVP	71	Hills Herb-rich Woodland	5	Lower Slopes or Hills Woodlands	Vulnerable	1712	0	0	0	38	0	0	0	267	305	17.8	0.0	0.0
VVP	72	Granitic Hills Woodland	4	Box Ironbark Forests or dry/lower fertility Woodlands	Endangered	1152	0	0	0	0	0	0	0	188	188	16.4	0.0	0.0
VVP	73	Rocky Outcrop Shrubland/Rocky Outcrop Herbland Mosaic	20	Rocky Outcrop or Escarpment Scrubs	Vulnerable	15	0	0	0	0	0	0	6	0	6	40.0	0.0	0.0
VVP	74	Wetland Formation	18	Wetlands	Endangered	1779	430	0	430	4	0	430	0	445	880	49.5	48.9	24.2
VVP	76	Grassy Woodland/Alluvial Terraces Herb-rich Woodland Mosaic	5	Lower Slopes or Hills Woodlands	Endangered	1126	7	0	7	0	0	7	0	126	133	11.8	5.4	0.6
VVP	81	Alluvial Terraces Herb-rich Woodland/Creepline Grassy Woodland Mosaic	15	Herb-rich Woodlands	Endangered	85	0	0	0	0	0	0	0	6	6	6.5	0.0	0.0
VVP	83	Swampy Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	4666	1	0	1	63	0	1	0	311	375	8.0	0.1	0.0
VVP	104	Lignum Swamp	18	Wetlands	Endangered	0	0	0	0	3	0	0	0	60	63	0.0	0.0	0.0
VVP	104	Lignum Wetland	18	Wetlands		83	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
VVP	106	Grassy Riverine Forest	14	Riverine Grassy Woodlands or Forests	not applicable	35	0	0	0	1	0	0	0	17	19	53.2	0.0	0.0
VVP	124	Grey Clay Drainage-line Aggregate	12	Plains Grasslands and Chenopod Shrublands	Endangered	0	42	0	42	0	0	42	0	86	128	0.0	32.6	0.0
VVP	125	Plains Grassy Wetland	18	Wetlands	Endangered	41311	22	0	22	162	0	22	0	5734	5917	14.3	0.4	0.1
VVP	126	Swampy Riparian Complex	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	2308	0	0	0	14	0	0	0	139	152	6.6	0.0	0.0



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BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
VVP	127	Valley Heathy Forest	6	Dry Forests	Endangered	1	0	0	0	0	0	0	1	0	1	73.5	0.0	0.0
VVP	128	Grassy Forest	6	Dry Forests	Endangered	84	0	0	0	0	0	0	20	0	20	23.7	0.0	0.0
VVP	132	Plains Grassland	12	Plains Grasslands and Chenopod Shrublands	Endangered	0	0	0	0	0	0	0	0	65244	65244	0.0	0.0	0.0
VVP	132	Plains Grassland	12	Plains Grasslands and Chenopod Shrublands	Endangered	256457	1502	0	1502	3276	0	1502	0	60466	65244	25.4	2.3	0.6
VVP	134	Sand Forest	2	Heathy Woodlands	Endangered	567	2	0	2	0	0	2	0	297	298	52.7	0.5	0.3
VVP	136	Sedge Wetland	18	Wetlands	Vulnerable	20	0	20	20	0	0	0	0	0	20	100.0	100.0	100.0
VVP	140	Mangrove Shrubland	19	Salt-tolerant and/or succulent Shrublands	Vulnerable	45	5	0	5	5	0	5	0	39	49	107.7	10.9	11.8
VVP	152	Alluvial Terraces Herb-rich Woodland/Plains Grassy Woodland Complex	15	Herb-rich Woodlands	Endangered	1015	12	0	12	26	0	12	0	177	215	21.2	5.6	1.2
VVP	161	Coastal Headland Scrub	1	Coastal Scrubs Grasslands and Woodlands	Vulnerable	19	0	0	0	6	0	0	0	2	8	40.2	0.0	0.0
VVP	163	Coastal Tussock Grassland	1	Coastal Scrubs Grasslands and Woodlands	Vulnerable	127	28	0	28	0	0	28	0	5	34	26.7	83.8	22.4
VVP	164	Creekline Herb-rich Woodland	15	Herb-rich Woodlands	Endangered	1376	9	45	54	47	0	9	0	305	405	29.5	13.3	3.9
VVP	165	Damp Heath Scrub	16	Heathlands	Vulnerable	40	0	0	0	0	0	0	0	1	1	3.0	1.2	0.0
VVP	175	Grassy Woodland	5	Lower Slopes or Hills Woodlands	Endangered	39958	114	0	114	302	0	114	0	4246	4662	11.7	2.4	0.3
VVP	191	Riparian Scrub	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	325	58	9	67	0	0	58	0	111	178	54.7	37.7	20.6
VVP	195	Seasonally Inundated Shrubby Woodland	5	Lower Slopes or Hills Woodlands	Endangered	449	34	0	34	17	0	34	0	122	173	38.7	19.7	7.6
VVP	198	Sedgy Riparian Woodland	14	Riverine Grassy Woodlands or Forests	Vulnerable	585	271	56	327	2	0	271	0	58	387	66.2	84.5	55.9
VVP	200	Shallow Freshwater Marsh	18	Wetlands	Endangered	768	75	5	80	5	0	75	0	146	231	30.1	34.6	10.4
VVP	203	Stony Rises Woodland	13	Plains Woodlands or Forests	Vulnerable	108047	9801	69	9870	201	0	9801	0	19861	29932	27.7	33.0	9.1
VVP	250	Floodplain Riparian Woodland/Plains Grassy Woodland Mosaic	14	Riverine Grassy Woodlands or Forests	Endangered	1169	0	0	0	20	0	0	0	176	196	16.8	0.0	0.0
VVP	283	Plains Sedgy Woodland	13	Plains Woodlands or Forests	Vulnerable	260	0	0	0	0	0	0	2	0	2	0.6	0.0	0.0
VVP	291	Cane Grass Wetland	18	Wetlands	Vulnerable	282	6	0	6	69	0	6	0	129	204	72.2	2.9	2.1
VVP	292	Red Gum Swamp	18	Wetlands	Endangered	0	0	0	0	1	0	0	0	157	158	0.0	0.0	0.0
VVP	292	Red Gum Wetland	18	Wetlands		1451	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
VVP	300	Reed Swamp	18	Wetlands	Endangered	32	0	0	0	1	0	0	0	28	29	90.7	0.1	0.1
VVP	302	Coastal Saltmarsh/Mangrove Shrubland Mosaic	19	Salt-tolerant and/or succulent Shrublands	Endangered	1105	283	0	283	172	0	283	0	154	608	55.1	46.5	25.6
VVP	320	Grassy Dry Forest/Heathy Dry Forest Complex	6	Dry Forests	Depleted	4	0	0	0	0	0	0	1	0	1	14.5	0.0	0.0
VVP	414	Damp Sands Herb-rich Woodland/Shrubby Woodland Complex	15	Herb-rich Woodlands	Least Concern	1	1	0	1	0	0	1	0	0	1	99.5	100.0	99.5
VVP	458	Red Gum Wetland/Shallow Freshwater Marsh Mosaic	18	Wetlands	Endangered	3	0	0	0	0	0	0	0	3	3	100.4	0.2	0.2
VVP	493	Heathy Woodland/Plains Grassy Woodland Mosaic	2	Heathy Woodlands	Endangered	5	4	0	4	0	0	4	0	0	4	93.0	97.9	91.0
VVP	636	Brackish Lake Aggregate	19	Salt-tolerant and/or succulent Shrublands	Vulnerable	0	1086	0	1086	0	0	1086	0	4	1090	0.0	99.7	0.0
VVP	636	Brackish Lake Mosaic	19	Salt-tolerant and/or succulent Shrublands		1114	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
VVP	641	Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	13492	95	0	95	120	0	95	0	1442	1657	12.3	5.8	0.7
VVP	642	Basalt Shrubby Woodland	13	Plains Woodlands or Forests	Endangered	70634	13	0	13	28	0	13	0	1740	1781	2.5	0.7	0.0
VVP	643	Brackish Drainage-line Aggregate	18	Wetlands	Endangered	0	0	0	0	1	0	0	0	77	77	0.0	0.0	0.0
VVP	643	Brackish Drainage-line Herbland-Sedgeland	18	Wetlands		572	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
VVP	644	Cinder Cone Woodland	5	Lower Slopes or Hills Woodlands	Endangered	488	315	0	315	0	0	315	0	10	325	66.6	96.9	64.6
VVP	645	Wet Heathland/Heathy Woodland Mosaic	16	Heathlands	Depleted	1052	917	0	917	28	0	917	0	83	1028	97.7	89.1	87.1
VVP	647	Plains Sedgy Wetland	18	Wetlands	Endangered	29259	87	22	109	468	0	87	0	6266	6843	23.4	1.6	0.4
VVP	649	Stony Knoll Shrubland	13	Plains Woodlands or Forests		166	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
VVP	650	Heathy Woodland/Damp Heathy Woodland/Damp Heathland Mosaic	2	Heathy Woodlands	Vulnerable	251	120	67	186	16	0	120	0	10	212	84.3	88.0	74.2
VVP	651	Plains Swampy Woodland	13	Plains Woodlands or Forests	Endangered	14856	3	0	3	2	0	3	0	238	243	1.6	1.3	0.0



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VVP	652	Lunette Woodland	13	Plains Woodlands or Forests	Endangered	659	0	0	0	0	0	0	0	7	7	1.1	4.1	0.0
VVP	653	Aquatic Herbland	18	Wetlands	Endangered	196	9	0	9	17	0	9	0	75	101	51.4	9.4	4.8
VVP	654	Creekline Tussock Grassland	12	Plains Grasslands and Chenopod Shrublands	Endangered	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
VVP	654	Creekline Tussock Grassland	12	Plains Grasslands and Chenopod Shrublands		2548	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
VVP	655	Lignum-Cane Grass Swamp	18	Wetlands	Endangered	414	0	0	0	36	0	0	0	273	309	74.7	0.0	0.0
VVP	656	Brackish Wetland	18	Wetlands	Endangered	807	2	0	2	0	0	2	0	126	129	15.9	1.6	0.3
VVP	657	Freshwater Lignum Shrubland	13	Plains Woodlands or Forests	Endangered	26	0	0	0	0	0	0	0	1	1	2.5	0.0	0.0
VVP	660	Plains Woodland/Plains Grassy Wetland Mosaic	13	Plains Woodlands or Forests	Endangered	45	0	0	0	0	0	0	39	0	39	86.6	0.0	0.0
VVP	662	Escarpment Shrubland/Grassy Woodland/Riparian Woodland Mosaic	14	Riverine Grassy Woodlands or Forests	Endangered	50	0	0	0	0	0	0	21	0	21	41.5	0.0	0.0
VVP	666	Riparian Shrubland/Escarpment Shrubland/Grassy Woodland Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands		2591	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
VVP	668	Riparian Woodland/Escarpment Shrubland Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	492	2	0	2	19	0	2	0	87	107	21.8	1.6	0.3
VVP	680	Freshwater Meadow	18	Wetlands	Endangered	296	0	0	0	16	0	0	0	54	71	23.8	0.0	0.0
VVP	681	Deep Freshwater Marsh	18	Wetlands	Vulnerable	1686	300	6	306	141	0	300	0	607	1054	62.5	29.0	18.1
VVP	690	Floodplain Riparian Woodland/Billabong Wetland Mosaic	14	Riverine Grassy Woodlands or Forests	Endangered	1852	0	0	0	0	0	0	298	0	298	16.1	0.0	0.0
VVP	691	Aquatic Herbland/Plains Sedgy Wetland Mosaic	18	Wetlands	Endangered	19222	1552	0	1552	283	0	1552	0	4354	6188	32.2	25.1	8.1
VVP	692	Mangrove Shrubland/Coastal Saltmarsh/Berm Grassy Shrubland/Estuarine Flats Grassland Mosaic	19	Salt-tolerant and/or succulent Shrublands	Endangered	72	0	0	0	39	0	0	0	0	39	54.8	0.0	0.0
VVP	693	Plains Woodland/Plains Grassland Mosaic	13	Plains Woodlands or Forests	Endangered	11644	28	0	28	9	0	28	0	1076	1113	9.6	2.5	0.2
VVP	705	Basalt Creekline Shrubby Woodland	13	Plains Woodlands or Forests	Endangered	3999	0	0	0	0	0	0	106	0	106	2.6	0.0	0.0
VVP	710	Damp Heathland	16	Heathlands	Vulnerable	118	0	0	0	0	0	0	4	0	4	3.5	0.0	0.0
VVP	713	Damp Sands Herb-rich Woodland/Damp Heathland/Damp Heathy Woodland Mosaic	15	Herb-rich Woodlands	Vulnerable	1355	3	6	8	79	0	3	0	227	315	23.2	2.7	0.6
VVP	714	Stony Knoll Shrubland/Plains Grassy Woodland/Plains Grassy Wetland Mosaic	13	Plains Woodlands or Forests	Endangered	57734	33	0	33	10	0	33	0	3626	3669	6.4	0.9	0.1
VVP	715	Plains Grassland/Stony Knoll Shrubland Mosaic	12	Plains Grasslands and Chenopod Shrublands	Endangered	853	1	0	1	0	0	1	0	1	2	0.2	34.1	0.1
VVP	716	Plains Grassy Woodland/Stony Knoll Shrubland Mosaic	13	Plains Woodlands or Forests	Endangered	1629	0	0	0	10	0	0	0	50	60	3.7	0.7	0.0
VVP	717	Saline Lake Aggregate	19	Salt-tolerant and/or succulent Shrublands	Least Concern	0	616	0	616	714	0	616	0	554	1884	0.0	32.7	0.0
VVP	717	Saline Lake Mosaic	19	Salt-tolerant and/or succulent Shrublands		2347	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
VVP	718	Freshwater Lake Aggregate	18	Wetlands	Endangered	0	149	0	149	49	0	149	0	99	297	0.0	50.2	0.0
VVP	718	Freshwater Lake Mosaic	18	Wetlands		380	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
VVP	719	Grassy Woodland/Damp Sands Herb-rich Woodland Mosaic	15	Herb-rich Woodlands	Endangered	407	0	0	0	0	0	0	100	0	100	24.5	0.0	0.0
VVP	720	Swamp Scrub/Aquatic Herbland Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	133	15	0	15	5	0	15	0	9	29	21.6	51.5	11.1
VVP	732	Damp Sands Herb-rich Woodland/Plains Swampy Woodland/Aquatic Herbland Mosaic	15	Herb-rich Woodlands	Endangered	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
VVP	732	Damp Sands Herb-rich Woodland/Plains Swampy Woodland/Aquatic Herbland Mosaic	15	Herb-rich Woodlands		5	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
VVP	733	Swamp Scrub/Plains Sedgy Wetland/Aquatic Herbland Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands		8718	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
VVP	733	Swamp Scrub/Plains Sedgy Wetland/Aquatic Herbland Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	8718	1	0	1	64	0	1	0	448	513	5.9	0.2	0.0
VVP	742	Basalt Shrubby Woodland/Herb-rich Foothill Forest Mosaic	13	Plains Woodlands or Forests	Endangered	1238	0	0	0	0	0	0	6	0	6	0.5	0.0	0.0
VVP	744	Stony Knoll Shrubland/Basalt Shrubby Woodland Mosaic	13	Plains Woodlands or Forests	Endangered	223	0	0	0	0	0	0	1	0	1	0.5	0.0	0.0
VVP	746	Damp Heathland/Damp Heathy Woodland Mosaic	16	Heathlands	Vulnerable	425	0	3	3	0	0	0	0	73	77	18.0	4.5	0.8
VVP	752	Grassy Woodland/Hills Herb-rich Woodland/Damp Sands Herb-rich Woodland Mosaic	15	Herb-rich Woodlands		70	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
VVP	770	Damp Sands Herb-rich Woodland/Lowland Forest Mosaic	15	Herb-rich Woodlands	Vulnerable	48	0	16	16	8	0	0	0	5	28	59.0	55.0	32.5
VVP	776	Plains Swampy Woodland/Swamp Scrub Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	435	0	13	13	0	0	0	0	28	41	9.5	31.1	2.9

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VVP	781	Damp Sands Herb-rich Woodland/Herb-rich Foothill Forest Mosaic	15	Herb-rich Woodlands	Vulnerable	34	0	0	0	0	0	0	3	0	3	7.6	0.0	0.0
VVP	791	Damp Sands Herb-rich Woodland/Plains Grassy Woodland Complex	13	Plains Woodlands or Forests	Endangered	98	0	0	0	0	0	0	5	0	5	5.3	0.0	0.0
VVP	792	Stony Rises Woodland/Stony Knoll Shrubland Complex	13	Plains Woodlands or Forests	Endangered	1228	13	0	13	0	0	13	0	834	847	69.0	1.5	1.0
VVP	793	Damp Heathy Woodland	2	Heathy Woodlands	Vulnerable	68	52	0	52	0	0	52	0	11	63	92.9	82.2	76.3
VVP	796	Valley Grassy Forest/Lateritic Woodland Mosaic	6	Dry Forests	Endangered	8	0	0	0	0	0	0	0	1	1	12.1	17.3	2.1
VVP	803	Plains Woodland	13	Plains Woodlands or Forests	Endangered	40582	19	0	19	50	0	19	0	3016	3085	7.6	0.6	0.0
VVP	851	Stream Bank Shrubland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	3948	68	34	102	338	0	68	0	1338	1779	45.1	5.7	2.6
VVP	858	Coastal Alkaline Scrub	1	Coastal Scrubs Grasslands and Woodlands	Endangered	377	0	0	0	36	0	0	0	2	38	10.1	0.0	0.0
VVP	881	Damp Sands Herb-rich Woodland/Heathy Woodland Mosaic	15	Herb-rich Woodlands	Vulnerable	11	1	0	1	0	0	1	0	8	8	74.1	7.2	5.3
VVP	885	Damp Sands Herb-rich Woodland/Plains Grassy Woodland Mosaic	15	Herb-rich Woodlands	Endangered	12940	1	0	1	12	0	1	0	1082	1095	8.5	0.1	0.0
VVP	894	Scoria Cone Woodland	5	Lower Slopes or Hills Woodlands	Endangered	14500	165	0	165	93	0	165	0	797	1055	7.3	15.6	1.1
VVP	895	Escarpment Shrubland	13	Plains Woodlands or Forests	Endangered	2620	82	0	82	121	0	82	0	651	854	32.6	9.6	3.1
VVP	896	Grassy Woodland/Heathy Dry Forest Complex	5	Lower Slopes or Hills Woodlands	Endangered	966	14	0	14	4	0	14	0	150	168	17.4	8.6	1.5
VVP	897	Plains Grassland/Plains Grassy Woodland Mosaic	12	Plains Grasslands and Chenopod Shrublands	Endangered	473490	43	0	43	26	0	43	0	215	284	0.1	15.2	0.0
VVP	900	Coastal Saltmarsh/Coastal Dune Grassland/Coastal Dune Scrub/Coastal Headland Scrub Mosaic	1	Coastal Scrubs Grasslands and Woodlands	Endangered	21	1	0	1	3	0	1	0	7	11	49.9	6.0	3.0
VVP	914	Estuarine Flats Grassland	18	Wetlands		5	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
VVP	921	Coast Banksia Woodland/Coastal Dune Scrub Mosaic	1	Coastal Scrubs Grasslands and Woodlands	Vulnerable	6	0	0	0	0	0	0	6	0	6	103.8	0.0	0.0
VVP	928	Riparian Woodland/Stream-bank Shrubland Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands		47	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
VVP	932	Wet Verge Sedgeland	18	Wetlands	Endangered	130	0	0	0	1	0	0	0	0	1	0.8	0.0	0.0
VVP	934	Brackish Grassland	18	Wetlands	Endangered	106	0	0	0	1	0	0	0	0	1	0.7	0.0	0.0
VVP	937	Swampy Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands		280	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Total						2,304,779	38,735	15,038	53,773	21,067	0	38,735	619	276,072	351,531	15.3%	11.0%	1.7%



9. Victorian Riverina

Bioregion size: 1 886 903 ha
 Native vegetation cover: 430 399 ha (22%)
 Conservation reserve cover (excludes State Forests): 35 025 ha (8%)

Conservation Priorities

Little native vegetation is located on non-conservation public land. Remaining vegetation is largely represented by EVCs from the Riverine Grassy Woodland or Forests and Plains Woodland or Forests EVC groups. Increasing conservation percentage of these groups should be given conservation priority, particularly areas which support EPBC listed species. The Bioregion is highly fragmented and would benefit from increasing connectivity between native vegetation remnant patches.

The Victorian Riverina Bioregion (VRiv) covers approximately 1 886 903 ha, from Kerang in the west stretching to Wodonga in the east and south to Seymour. Other major townships in the Bioregion are Shepparton and Benalla. The Bioregion is typified by flat to gently undulating landscape and wide floodplain areas associated with major river systems. The Avoca, Loddon, Campaspe, Goulburn, Ovens and Murray rivers all flow through the area. The vegetation is dominated by Plains Grassy Woodland, Plains Grassland, Pine Box Woodland, Riverine Grassy Woodland, Riverine Sedgy Forest, Gilgai Plains Woodland and Wetland ecosystems. The Victorian Riverina is Sub-region RIV4 of the Riverina Interim Biogeographic Regionalisation of Australia (IBRA) Bioregion. The Bioregion falls within the North Central Catchment Management Authority (CMA), the Goulburn Broken CMA and the North East CMA areas. Under the proposed alignment of new Natural Resource & Catchment Authorities (NCRA) to be implemented in 2011, all three current CMAs will form the Northern Rivers NCRA. The Bioregion is predominately privately owned, with approximately 10% public land. Warby-Ovens National Park was created in 2010 in the region, encompassing 14 655 ha of River Red gum forest. The Kerang Lakes Ramsar site is also located within the Bioregion.

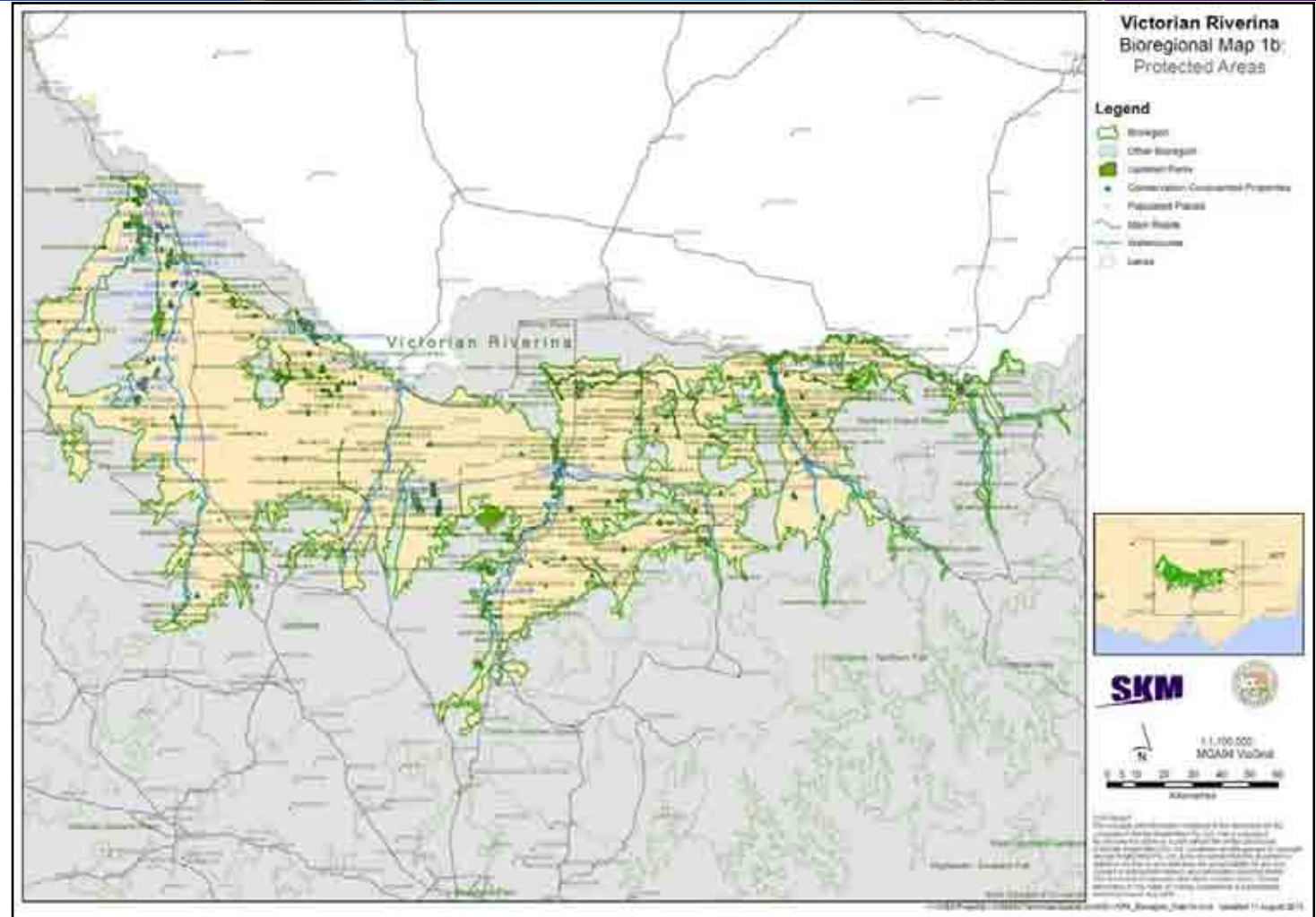


Figure 9-2 Protected Areas – Victorian Riverina

The Bioregion supports 123 Ecological Vegetation Classes (EVCs) and EVC complexes or mosaics. Of the EVCs present, 59 have a Bioregional Conservation Status (BCS) of Endangered. The Bioregion has been extensively cleared for agricultural purposes and has only 22% of the pre-1750s remaining. Of the remaining vegetation, approximately 8% is protected on conservation land. The Bioregion provides habitat for several Commonwealth Environment Protection and Biodiversity Conservation (EPBC) Act listed communities and species, including the Buloke Woodlands of the Riverina and Murray-Darling Depression Bioregions, listed as Endangered, Spiny Rice-flower (*Pimelea spinescens* subsp. *spinescens*), listed as Critically Endangered, and Striped Legless Lizard (*Delma impar*), listed as Vulnerable. Eight (8) migratory species and 14 listed marine species are known in the Bioregion. The Bioregion also supports a variety of State Flora and Fauna Guarantee (FFG) Act listed species, including Regent Parrot (*Polytelis anthopeplus monarchoides*), Superb Parrot (*Polytelis swainsonii*), Regent Honeyeater (*Xanthomyza phrygia*), Carpet Python (*Morelia spilota*), Barking Owl (*Ninox connivens*), Bush Stone-curlew (*Burhinus magnirostris*) and Brolga (*Grus rubicund*). Land use is largely agricultural, with grazing and cropping predominating. Extensive logging of the River Red Gum forests has also been ongoing in the Bioregion. Salinity and water logging caused by irrigation practices have had a severe impact on the Bioregion, the management of which is an ongoing challenge. Continued clearing and increasing fragmentation, erosion and pest species also pose threats to the region. The region is expected to become hotter and drier, due to the effects of climate change, and runoff into all major river system flows are projected to decrease by between 5% and 50% by 2070, which is likely to further amplify the biodiversity losses in the Bioregion.

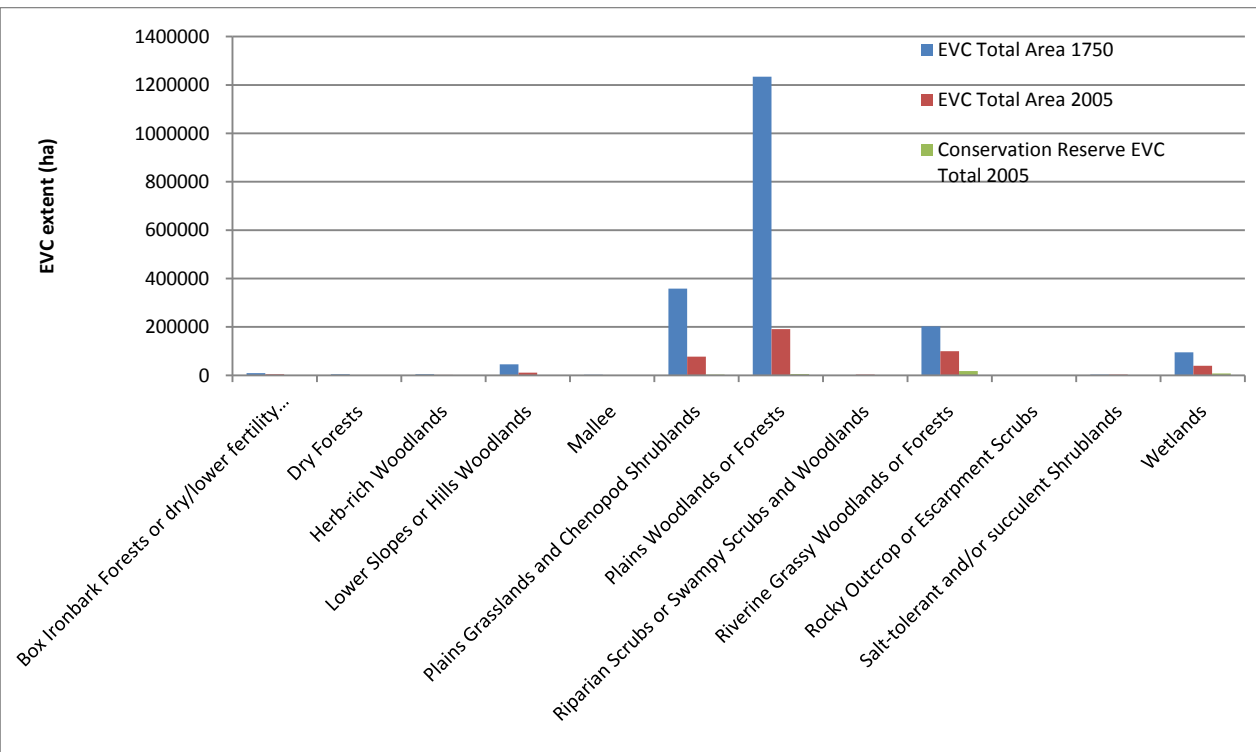


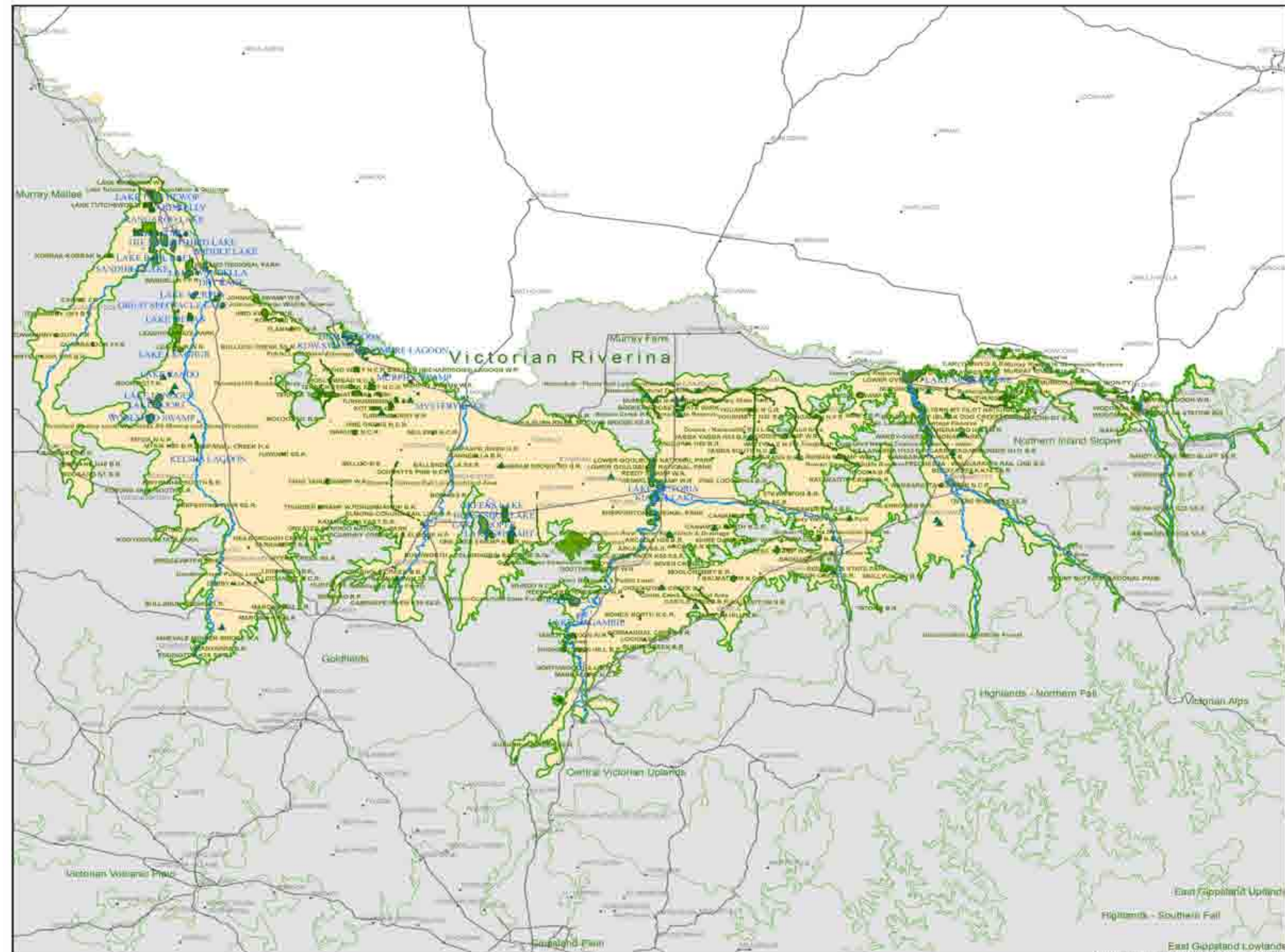
Figure 9-1 EVC Group Breakdown



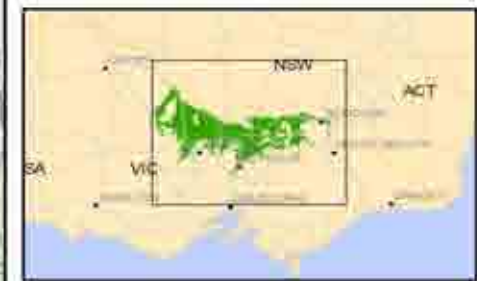
Terrestrial Biodiversity Review



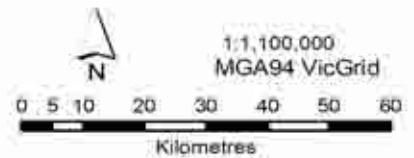
**Victorian Riverina
Bioregional Map 1b:
Protected Areas**



- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes



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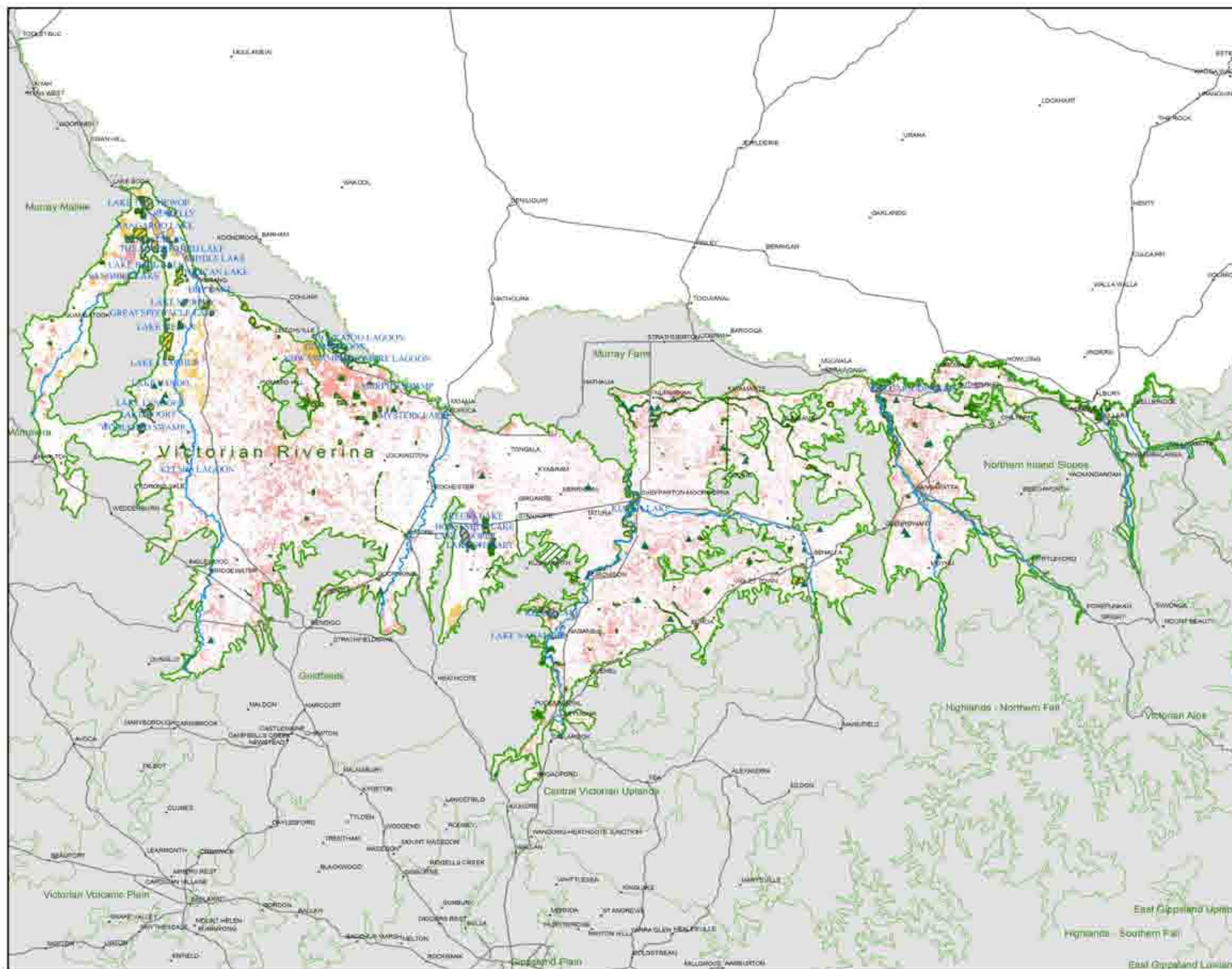


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Terrestrial Biodiversity Review



**Victorian Riverina
Bioregional Map 2a:
Vegetation Conservation
Significance**

Legend

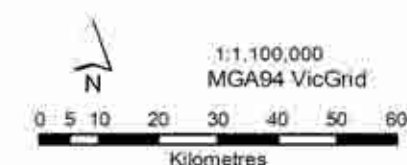
- Bioregion
- Other Bioregion
- Updated Parks
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes

EVC Bioregional Conservation Status

- Endangered
- Vulnerable
- Degraded
- Rare
- Least Concern



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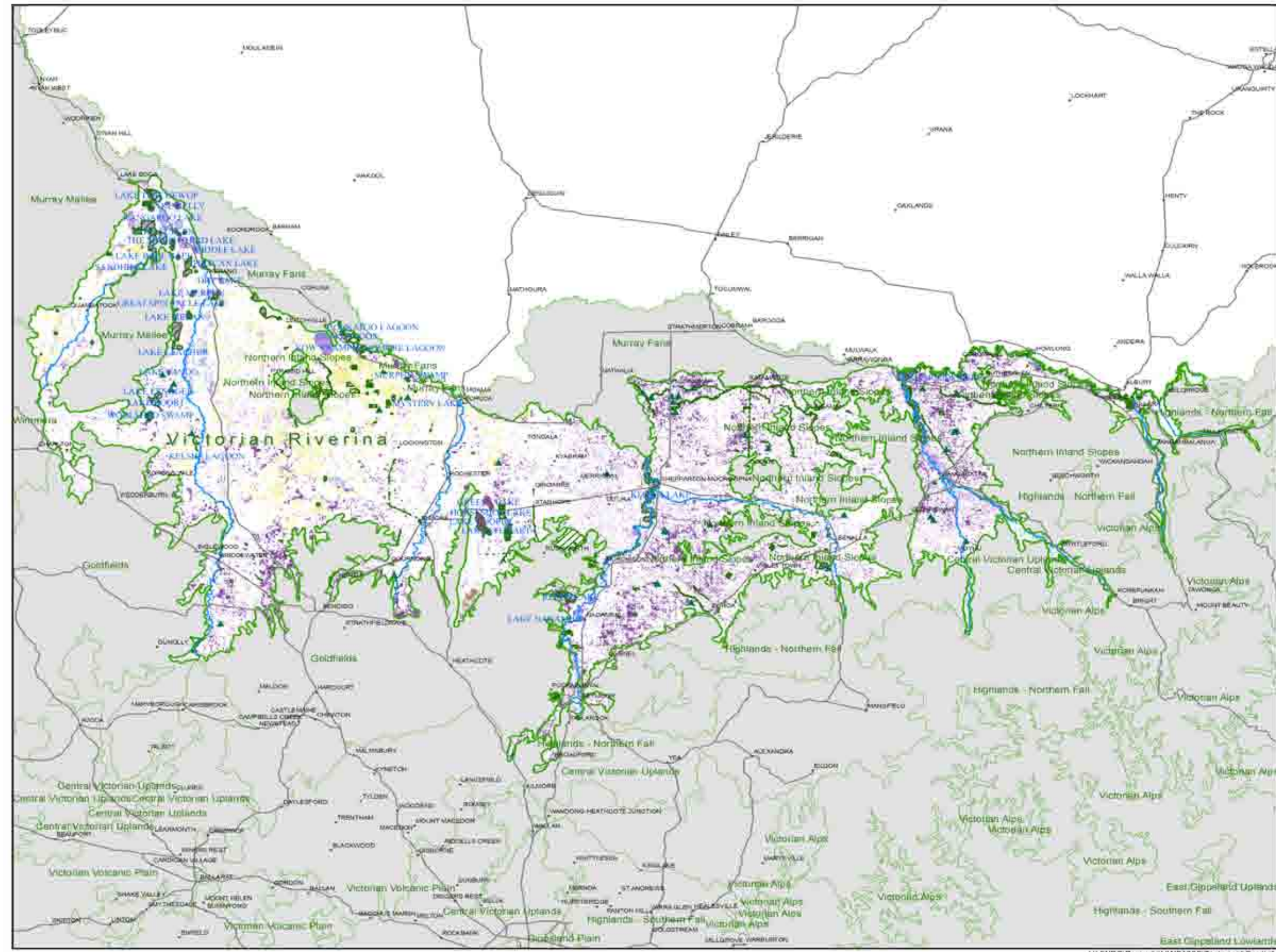
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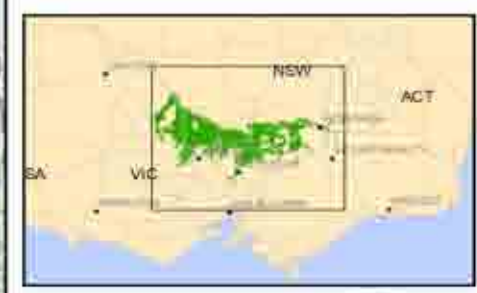


Terrestrial Biodiversity Review



**Victorian Riverina
Bioregional Map 2b:
EVC Groups**

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- EVC Group**
- Coastal Scrubs Grasslands and Woodlands
 - Healthy Woodlands
 - Lowland Forests
 - Box Ironbark Forests or dry/lower fertility Woodlands
 - Lower Slopes or Hills Woodlands
 - Dry Forests
 - Wet or Damp Forests
 - Riparian Scrubs or Swampy Scrubs and Woodlands
 - Rainforests
 - Montane Grasslands, Shrublands or Woodlands
 - Sub-alpine Grasslands, Shrublands or Woodlands
 - Plains Grasslands and Chenopod Shrublands
 - Plains Woodlands or Forests
 - Riverine Grassy Woodlands or Forests
 - Herb-rich Woodlands
 - Heathlands
 - Mallee
 - Wetlands
 - Salt-tolerant and/or succulent Shrublands
 - Rocky Outcrop or Escarpment Scrubs
 - No native vegetation recorded



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Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Vic Riverina	3	Damp Sands Herb-rich Woodland	15	Herb-rich Woodlands	Endangered	211	8	0	8	0	0	8	0	59	67	31.6	11.7	3.7
Vic Riverina	18	Riparian Forest	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Depleted	63	5	2	7	109	0	5	0	174	290	462.7	2.5	11.4
Vic Riverina	19	Riparian Shrubland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Depleted	4	0	0	0	4	0	0	0	0	4	93.5	0.0	0.0
Vic Riverina	20	Heathy Dry Forest	6	Dry Forests	Least Concern	219	19	0	19	0	0	19	0	63	82	37.5	22.8	8.6
Vic Riverina	21	Shrubby Dry Forest	6	Dry Forests	Vulnerable	9	0	1	1	0	0	0	0	7	8	90.4	14.5	13.1
Vic Riverina	22	Grassy Dry Forest	6	Dry Forests	Depleted	1089	17	7	23	27	0	17	0	310	360	33.0	6.5	2.1
Vic Riverina	23	Herb-rich Foothill Forest	6	Dry Forests	Depleted	131	5	3	8	4	0	5	0	40	51	39.3	15.6	6.1
Vic Riverina	28	Rocky Outcrop Shrubland	20	Rocky Outcrop or Escarpment Scrubs	Vulnerable	125	1	0	1	0	0	1	0	37	38	30.7	2.0	0.6
Vic Riverina	47	Valley Grassy Forest	6	Dry Forests	Vulnerable	2146	3	13	17	20	0	3	0	388	424	19.8	3.9	0.8
Vic Riverina	55	Plains Grassy Woodland	13	Plains Woodlands or Forests	Endangered	207568	624	50	674	1335	0	624	0	32660	34669	16.7	1.9	0.3
Vic Riverina	56	Floodplain Riparian Woodland	14	Riverine Grassy Woodlands or Forests	Vulnerable	37451	2405	223	2627	5815	0	2405	0	11353	19795	52.9	13.3	7.0
Vic Riverina	61	Box Ironbark Forest	4	Box Ironbark Forests or dry/lower fertility Woodlands	Vulnerable	7925	239	251	490	180	0	239	0	3296	3966	50.0	12.3	6.2
Vic Riverina	66	Low Rises Woodland	5	Lower Slopes or Hills Woodlands	Endangered	2102	40	0	40	5	0	40	0	167	212	10.1	19.0	1.9
Vic Riverina	67	Alluvial Terraces Herb-rich Woodland	15	Herb-rich Woodlands	Vulnerable	644	3	1	4	1	0	3	0	205	210	32.6	2.0	0.7
Vic Riverina	68	Creekline Grassy Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	21614	1149	5	1154	2540	0	1149	0	7769	11463	53.0	10.1	5.3
Vic Riverina	72	Granitic Hills Woodland	4	Box Ironbark Forests or dry/lower fertility Woodlands	Endangered	368	9	0	9	0	0	9	0	120	129	35.0	7.1	2.5
Vic Riverina	74	Wetland Formation	18	Wetlands	Endangered	27642	1220	2	1222	63	0	1220	0	8398	9684	35.0	12.6	4.4
Vic Riverina	76	Grassy Woodland/Alluvial Terraces Herb-rich Woodland Mosaic	5	Lower Slopes or Hills Woodlands	Endangered	99	0	0	0	0	0	0	15	0	15	15.5	0.0	0.0
Vic Riverina	79	Alluvial Terraces Herb-rich Woodland/Heathy Dry Forest Mosaic	15	Herb-rich Woodlands	Vulnerable	676	452	0	452	0	0	452	0	78	529	78.3	85.3	66.8
Vic Riverina	80	Spring Soak Woodland	5	Lower Slopes or Hills Woodlands	Vulnerable	5	0	0	0	0	0	0	0	3	3	58.5	0.5	0.3
Vic Riverina	81	Alluvial Terraces Herb-rich Woodland/Creekline Grassy Woodland Mosaic	15	Herb-rich Woodlands	Vulnerable	931	2	1	3	106	0	2	0	319	428	45.9	0.8	0.3
Vic Riverina	82	Riverine Escarpment Scrub	20	Rocky Outcrop or Escarpment Scrubs	Endangered	19	0	0	0	0	0	0	1	0	1	5.6	0.0	0.0
Vic Riverina	83	Swampy Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	6	0	0	0	0	0	0	1	0	1	17.8	0.0	0.0
Vic Riverina	84	Riparian Forest/Swampy Riparian Woodland/Riparian Shrubland/Riverine Escarpment Scrub Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands		3	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Vic Riverina	93	Sandstone Ridge Shrubland	17	Mallee	Vulnerable	499	7	0	7	0	0	7	0	125	132	26.4	5.2	1.4
Vic Riverina	96	Ridged Plains Mallee	17	Mallee	Endangered	1009	5	0	5	3	0	5	0	106	113	11.2	4.2	0.5
Vic Riverina	97	Semi-arid Woodland	13	Plains Woodlands or Forests	Endangered	9656	60	0	60	21	0	60	0	316	398	4.1	15.2	0.6
Vic Riverina	98	Semi-arid Chenopod Woodland	13	Plains Woodlands or Forests	Endangered	4595	31	0	31	49	0	31	0	398	477	10.4	6.4	0.7
Vic Riverina	101	Samphire Shrubland	19	Salt-tolerant and/or succulent Shrublands	Least Concern	1042	318	0	318	519	0	318	0	147	983	94.4	32.3	30.5
Vic Riverina	103	Riverine Chenopod Woodland	14	Riverine Grassy Woodlands or Forests	Vulnerable	29917	1338	4	1343	427	0	1338	0	6072	7841	26.2	17.1	4.5
Vic Riverina	104	Lignum Swamp	18	Wetlands	Vulnerable	0	1474	0	1474	888	0	1474	0	13200	15562	0.0	9.5	0.0
Vic Riverina	104	Lignum Wetland	18	Wetlands		47281	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Vic Riverina	106	Grassy Riverine Forest	14	Riverine Grassy Woodlands or Forests	Depleted	94	45	0	45	54	0	45	0	76	174	184.2	25.6	47.2
Vic Riverina	107	Lake Bed Herbland	18	Wetlands	Depleted	1134	1125	0	1125	0	0	1125	0	4	1129	99.6	99.6	99.2
Vic Riverina	110	Riverine Chenopod Woodland/Plains Grassland Mosaic	14	Riverine Grassy Woodlands or Forests	Endangered	1096	0	0	0	13	0	0	0	600	614	56.0	0.0	0.0
Vic Riverina	125	Plains Grassy Wetland	18	Wetlands	Endangered	6989	242	40	283	8	0	242	0	1844	2135	30.5	13.2	4.0
Vic Riverina	127	Valley Heathy Forest	6	Dry Forests	Endangered	96	0	0	0	0	0	0	20	0	20	20.4	0.0	0.0
Vic Riverina	132	Plains Grassland	12	Plains Grasslands and Chenopod Shrublands	Endangered	268272	2556	0	2556	532	0	2556	0	58148	61236	22.8	4.2	1.0
Vic Riverina	152	Alluvial Terraces Herb-rich Woodland/Plains Grassy Woodland Complex	15	Herb-rich Woodlands	Endangered	1035	1	0	1	6	0	1	0	218	224	21.6	0.4	0.1
Vic Riverina	158	Chenopod Mallee	17	Mallee	Vulnerable	7	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0

Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Vic Riverina	168	Drainage-line Aggregate	14	Riverine Grassy Woodlands or Forests	Endangered	0	112	6	118	68	0	112	0	2074	2260	0.0	5.2	0.0
Vic Riverina	168	Drainage-line Complex	14	Riverine Grassy Woodlands or Forests		7233	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Vic Riverina	172	Floodplain Wetland Aggregate	18	Wetlands	Vulnerable	0	143	29	172	101	0	143	0	572	845	0.0	20.4	0.0
Vic Riverina	175	Grassy Woodland	5	Lower Slopes or Hills Woodlands	Endangered	41927	238	29	267	356	0	238	0	9788	10411	24.8	2.6	0.6
Vic Riverina	186	Plains Grassy Woodland/Floodplain Riparian Woodland Complex	13	Plains Woodlands or Forests	Endangered	189	1	0	1	3	0	1	0	15	19	10.0	6.5	0.7
Vic Riverina	187	Plains Grassy Woodland/Grassy Woodland Complex	13	Plains Woodlands or Forests	Endangered	98	0	0	0	1	0	0	0	10	11	11.0	0.0	0.0
Vic Riverina	188	Plains Grassy Woodland/Valley Grassy Forest Complex	13	Plains Woodlands or Forests	Endangered	25	0	0	0	1	0	0	0	2	3	12.0	0.0	0.0
Vic Riverina	190	Plains Grassy Woodland/Valley Grassy Forest/Grassy Woodland Complex	13	Plains Woodlands or Forests	Endangered	60	0	0	0	8	0	0	0	32	40	67.0	0.0	0.0
Vic Riverina	213	Valley Grassy Forest/Box Ironbark Forest Complex	6	Dry Forests		665	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Vic Riverina	234	Plains Grassy Woodland/Grassy Woodland Mosaic	13	Plains Woodlands or Forests	Endangered	497	0	0	0	4	0	0	0	98	101	20.4	0.0	0.0
Vic Riverina	235	Plains Woodland/Herb-rich Gilgai Wetland Mosaic	13	Plains Woodlands or Forests	Endangered	0	1149	0	1149	287	0	1149	0	5862	7298	0.0	15.7	0.0
Vic Riverina	235	Gilgai Plain Woodland/Wetland Mosaic	13	Plains Woodlands or Forests		30147	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Vic Riverina	237	Riparian Forest/Swampy Riparian Woodland Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Depleted	18	1	0	1	4	0	1	0	3	7	41.0	9.0	3.7
Vic Riverina	238	Plains Grassy Woodland/Creekline Grassy Woodland/Floodplain Riparian Woodland Mosaic	13	Plains Woodlands or Forests	Endangered	3747	0	0	0	1	0	0	0	126	126	3.4	0.0	0.0
Vic Riverina	240	Plains Grassy Woodland/Creekline Grassy Woodland/Wetland Formation Mosaic	13	Plains Woodlands or Forests	Endangered	8401	38	0	38	88	0	38	0	1837	1962	23.4	1.9	0.4
Vic Riverina	241	Valley Grassy Forest/Plains Grassy Woodland Complex	6	Dry Forests	Endangered	6	0	0	0	0	0	0	0	0	0	3.5	0.0	0.0
Vic Riverina	247	Box Ironbark Forest/Grassy Woodland Complex	4	Box Ironbark Forests or dry/lower fertility Woodlands		59	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Vic Riverina	247	Box Ironbark Forest/Grassy Woodland Complex	4	Box Ironbark Forests or dry/lower fertility Woodlands	Vulnerable	59	0	0	0	1	0	0	0	3	4	7.3	0.0	0.0
Vic Riverina	250	Floodplain Riparian Woodland/Plains Grassy Woodland Mosaic	14	Riverine Grassy Woodlands or Forests	Vulnerable	220	0	0	0	204	0	0	0	0	204	92.9	0.0	0.0
Vic Riverina	251	Grassy Woodland/Valley Grassy Forest Mosaic	6	Dry Forests	Endangered	88	0	0	0	2	0	0	0	14	16	17.7	0.0	0.0
Vic Riverina	255	Riverine Grassy Woodland/Sedgy Riverine Forest/Wetland Formation Mosaic	14	Riverine Grassy Woodlands or Forests	Vulnerable	42644	0	0	0	9	0	0	0	8	17	0.0	2.4	0.0
Vic Riverina	256	Floodplain Riparian Woodland/Floodplain Wetland Mosaic	14	Riverine Grassy Woodlands or Forests	Vulnerable	307	108	0	108	1	0	108	0	102	211	68.7	51.1	35.1
Vic Riverina	257	Sandstone Ridge Shrubland/Box Ironbark Forest Mosaic	17	Mallee	Vulnerable	4	0	0	0	0	0	0	0	0	0	2.7	0.0	0.0
Vic Riverina	258	Alluvial Terraces Herb-rich Woodland/Gilgai Plain Woodland/Wetland Complex	15	Herb-rich Woodlands		894	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Vic Riverina	259	Plains Grassy Woodland/Gilgai Wetland Mosaic	13	Plains Woodlands or Forests	Endangered	71562	1089	0	1089	313	0	1089	0	14542	15944	22.3	6.8	1.5
Vic Riverina	260	Gilgai Wetland/Plains Grassy Woodland Complex	13	Plains Woodlands or Forests	Endangered	7	0	0	0	0	0	0	6	0	6	82.5	0.0	0.0
Vic Riverina	261	Plains Grassy Woodland/Creekline Grassy Woodland Mosaic	13	Plains Woodlands or Forests	Endangered	49	0	0	0	0	0	0	26	0	26	53.1	0.0	0.0
Vic Riverina	262	Grassy Woodland/Box Ironbark Forest Complex	4	Box Ironbark Forests or dry/lower fertility Woodlands		312	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Vic Riverina	263	Plains Grassy Woodland/Plains Grassland/Plains Grassy Wetland Mosaic	13	Plains Woodlands or Forests	Endangered	6631	0	0	0	9	0	0	0	2084	2092	31.6	0.0	0.0
Vic Riverina	264	Sand Ridge Woodland	13	Plains Woodlands or Forests		1107	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Vic Riverina	264	Sand Ridge Woodland	13	Plains Woodlands or Forests	Endangered	1107	44	0	44	4	0	44	0	196	243	22.0	18.0	4.0
Vic Riverina	265	Valley Grassy Forest/Grassy Dry Forest Mosaic	6	Dry Forests	Vulnerable	3	0	0	0	0	0	0	1	0	1	48.5	0.0	0.0
Vic Riverina	267	Plains Grassland/Plains Grassy Woodland/Gilgai Wetland Mosaic	13	Plains Woodlands or Forests	Endangered	16372	121	0	121	152	0	121	0	1842	2115	12.9	5.7	0.7
Vic Riverina	273	Plains Woodland/Plains Grassland/Gilgai Wetland Mosaic	13	Plains Woodlands or Forests	Endangered	11580	0	0	0	5	0	0	0	429	434	3.7	0.0	0.0
Vic Riverina	274	Grassy Woodland/Plains Grassy Woodland Complex	5	Lower Slopes or Hills Woodlands	Endangered	1270	0	0	0	6	0	0	0	178	184	14.5	0.0	0.0
Vic Riverina	287	Plains Grassy Woodland/Box Ironbark Forest Complex	13	Plains Woodlands or Forests	Endangered	81	13	0	13	0	0	13	0	30	43	53.2	29.5	15.7
Vic Riverina	291	Cane Grass Wetland	18	Wetlands	Vulnerable	223	160	0	160	0	0	160	0	15	175	78.4	91.3	71.6
Vic Riverina	292	Red Gum Swamp	18	Wetlands	Vulnerable	0	1983	0	1983	111	0	1983	0	1535	3628	0.0	54.6	0.0
Vic Riverina	292	Red Gum Wetland	18	Wetlands		4819	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0

Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Vic Riverina	293	Riparian Forest/Creekline Grassy Woodland Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	1	0	0	0	0	0	0	1	0	1	63.3	0.0	0.0
Vic Riverina	295	Riverine Grassy Woodland	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	0	242	242	0	0	0	0	6040	6283	0.0	3.9	0.0
Vic Riverina	295	Riverine Grassy Woodland	14	Riverine Grassy Woodlands or Forests	Vulnerable	736	1736	0	1736	546	0	1736	0	4001	6283	853.1	27.6	235.7
Vic Riverina	297	Billabong Wetland/Red Gum Swamp Mosaic	18	Wetlands	Endangered	0	0	0	0	0	0	0	83	0	83	0.0	0.0	0.0
Vic Riverina	297	Billabong Wetland/Red Gum Wetland Mosaic	18	Wetlands		310	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Vic Riverina	300	Reed Swamp	18	Wetlands	Vulnerable	3	0	0	0	0	0	0	1	0	1	38.2	0.0	0.0
Vic Riverina	321	Riverine Chenopod Woodland/Lignum Swamp Mosaic	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	0	0	0	0	0	0	30	0	30	0.0	0.0	0.0
Vic Riverina	321	Riverine Chenopod Woodland/Lignum Wetland Mosaic	14	Riverine Grassy Woodlands or Forests		222	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Vic Riverina	333	Red Gum Swamp/Plains Grassy Wetland Mosaic	18	Wetlands	Endangered	0	249	0	249	8	0	249	0	1294	1551	0.0	16.1	0.0
Vic Riverina	333	Red Gum Wetland/Plains Grassy Wetland Mosaic	18	Wetlands		3037	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Vic Riverina	334	Billabong Wetland Aggregate	18	Wetlands	Vulnerable	0	162	11	173	106	0	162	0	277	556	0.0	31.2	0.0
Vic Riverina	334	Billabong Wetland	18	Wetlands		65	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Vic Riverina	636	Brackish Lake Aggregate	19	Salt-tolerant and/or succulent Shrublands	Endangered	0	41	0	41	1804	0	41	0	20	1865	0.0	2.2	0.0
Vic Riverina	636	Brackish Lake Mosaic	19	Salt-tolerant and/or succulent Shrublands		1254	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Vic Riverina	641	Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	0	0	0	0	0	0	0	12	0	12	0.0	0.0	0.0
Vic Riverina	641	Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands		582	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Vic Riverina	652	Lunette Woodland	13	Plains Woodlands or Forests	Endangered	2132	7	0	7	12	0	7	0	99	118	5.5	5.6	0.3
Vic Riverina	694	Sandstone Ridge Shrubland/Low Rises Woodland Mosaic	17	Mallee	Endangered	147	0	0	0	0	0	0	5	0	5	3.3	0.0	0.0
Vic Riverina	717	Saline Lake Aggregate	19	Salt-tolerant and/or succulent Shrublands	Least Concern	0	176	0	176	0	0	176	0	5	180	0.0	97.3	0.0
Vic Riverina	717	Saline Lake Mosaic	19	Salt-tolerant and/or succulent Shrublands		182	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Vic Riverina	718	Freshwater Lake Aggregate	18	Wetlands	Vulnerable	0	773	0	773	2472	0	773	0	23	3268	0.0	23.7	0.0
Vic Riverina	718	Freshwater Lake Mosaic	18	Wetlands		3279	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Vic Riverina	802	Grassy Woodland/Heathy Woodland Mosaic	5	Lower Slopes or Hills Woodlands	Vulnerable	34	0	0	0	0	0	0	19	0	19	55.0	0.0	0.0
Vic Riverina	803	Plains Woodland	13	Plains Woodlands or Forests	Endangered	718700	1895	53	1947	2565	0	1895	0	112727	117240	16.3	1.7	0.3
Vic Riverina	804	Rushy Riverine Swamp	18	Wetlands	Depleted	0	62	0	62	0	0	62	0	27	89	0.0	69.6	0.0
Vic Riverina	810	Floodway Pond Herbland	18	Wetlands	Vulnerable	0	0	0	0	0	0	0	0	1	2	0.0	24.5	0.0
Vic Riverina	812	Grassy Riverine Forest/Riverine Swamp Forest Complex	14	Riverine Grassy Woodlands or Forests	Depleted	2818	3	0	3	833	0	3	0	1008	1844	65.5	0.2	0.1
Vic Riverina	813	Intermittent Swampy Woodland	14	Riverine Grassy Woodlands or Forests	Depleted	275	228	0	228	0	0	228	0	37	265	96.3	85.9	82.7
Vic Riverina	814	Riverine Swamp Forest	14	Riverine Grassy Woodlands or Forests	Depleted	0	0	77	77	0	0	0	0	1059	1136	0.0	6.8	0.0
Vic Riverina	814	Riverine Swamp Forest	14	Riverine Grassy Woodlands or Forests	Depleted	62	517	0	517	123	0	517	0	497	1136	1835.8	45.5	834.7
Vic Riverina	815	Riverine Swampy Woodland	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	365	25	389	302	0	365	0	1101	1792	0.0	21.7	0.0
Vic Riverina	816	Sedgy Riverine Forest	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	0	214	214	543	0	0	0	4214	4971	0.0	4.3	0.0
Vic Riverina	816	Sedgy Riverine Forest	14	Riverine Grassy Woodlands or Forests	Vulnerable	12	2949	0	2949	0	0	2949	0	2022	4971	41008.7	59.3	24325.8
Vic Riverina	819	Spike-sedge Wetland	18	Wetlands	Vulnerable	5	5	0	5	0	0	5	0	3	7	139.9	63.0	88.1
Vic Riverina	821	Tall Marsh	18	Wetlands	Depleted	0	0	0	0	0	0	0	0	156	156	0.0	0.0	0.0
Vic Riverina	821	Tall Marsh	18	Wetlands	Depleted	162	0	0	0	112	0	0	0	44	156	95.9	0.0	0.0
Vic Riverina	823	Lignum Swampy Woodland	14	Riverine Grassy Woodlands or Forests	Vulnerable	37965	6143	0	6143	4375	0	6143	0	8372	18890	49.8	32.5	16.2
Vic Riverina	824	Woorinen Mallee	17	Mallee	Vulnerable	513	16	0	16	18	0	16	0	49	83	16.3	19.8	3.2
Vic Riverina	826	Plains Savannah	12	Plains Grasslands and Chenopod Shrublands	Endangered	13678	12	0	12	48	0	12	0	2006	2067	15.1	0.6	0.1
Vic Riverina	829	Chenopod Grassland	12	Plains Grasslands and Chenopod Shrublands	Endangered	76263	332	1	333	139	0	332	0	13061	13533	17.7	2.5	0.4
Vic Riverina	855	Plains Woodland/Lignum Swamp Mosaic	13	Plains Woodlands or Forests	Endangered	0	0	0	0	0	0	0	180	0	180	0.0	0.0	0.0

Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Vic Riverina	855	Plains Woodland/Lignum Wetland Mosaic	13	Plains Woodlands or Forests		1250	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Vic Riverina	856	Plains Woodland/Red Gum Swamp Mosaic	13	Plains Woodlands or Forests	Endangered	0	0	0	0	15	0	0	0	205	220	0.0	0.0	0.0
Vic Riverina	856	Plains Woodland/Red Gum Wetland Mosaic	13	Plains Woodlands or Forests		1034	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Vic Riverina	867	Shallow Sands Woodland/Plains Woodland Mosaic	13	Plains Woodlands or Forests		67014	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Vic Riverina	867	Shallow Sands Woodland/Plains Woodland Mosaic	13	Plains Woodlands or Forests	Endangered	67014	44	0	44	31	0	44	0	4382	4456	6.6	1.0	0.1
Vic Riverina	869	Creekline Grassy Woodland/Red Gum Swamp Mosaic	14	Riverine Grassy Woodlands or Forests	Endangered	0	0	0	0	49	0	0	0	161	210	0.0	0.0	0.0
Vic Riverina	869	Creekline Grassy Woodland/Red Gum Wetland Mosaic	14	Riverine Grassy Woodlands or Forests		558	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Vic Riverina	871	Riverine Grassy Woodland/Plains Woodland/Gilgai Wetland Complex	14	Riverine Grassy Woodlands or Forests	Endangered	56	0	0	0	0	0	0	1	0	1	1.0	0.0	0.0
Vic Riverina	872	Riverine Grassy Woodland/Plains Woodland/Riverine Chenopod Woodland Complex	14	Riverine Grassy Woodlands or Forests		3	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Vic Riverina	882	Shallow Sands Woodland	13	Plains Woodlands or Forests	Endangered	3454	1	0	1	0	0	1	0	2644	2645	76.6	0.0	0.0
Vic Riverina	888	Plains Saltmarsh	19	Salt-tolerant and/or succulent Shrublands	Endangered	0	242	0	242	0	0	242	0	3	245	0.0	98.8	0.0
Vic Riverina	888	Plains Saltmarsh Complex	19	Salt-tolerant and/or succulent Shrublands		343	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Vic Riverina	937	Swampy Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	0	3	10	13	241	0	3	0	1620	1874	0.0	0.7	0.0
Vic Riverina	942	Lignum Swampy Woodland/Lake Bed Herbland Mosaic	14	Riverine Grassy Woodlands or Forests	Vulnerable	112	26	0	26	0	0	26	0	47	72	64.7	35.5	23.0
Vic Riverina	943	Lignum Swampy Woodland/Plains Grassland Mosaic	14	Riverine Grassy Woodlands or Forests	Endangered	12799	9	0	9	20	0	9	0	1854	1884	14.7	0.5	0.1
Vic Riverina	945	Floodway Pond Herbland/Riverine Swamp Forest Complex	14	Riverine Grassy Woodlands or Forests	Depleted	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Vic Riverina	946	Riverine Swampy Woodland/Lignum Swamp Mosaic	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	7	0	7	156	0	7	0	1578	1741	0.0	0.4	0.0
Vic Riverina	946	Riverine Swampy Woodland/Lignum Wetland Mosaic	14	Riverine Grassy Woodlands or Forests		5824	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Vic Riverina	1022	Drainage-line Aggregate/Riverine Swamp Forest Mosaic	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	0	0	0	0	0	0	0	2	2	0.0	7.6	0.0
Vic Riverina	1024	Mosaic of Drainage-line Aggregate/Sedgy Riverine Forest-Riverine Swamp Forest Complex	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	0	0	0	0	0	0	5	0	5	0.0	0.0	0.0
Vic Riverina	1032	Floodplain Riparian Woodland/Riverine Grassy Woodland Mosaic	14	Riverine Grassy Woodlands or Forests	Endangered	0	0	0	0	2	0	0	0	84	86	0.0	0.0	0.0
Vic Riverina	1034	Floodplain Riparian Woodland/Riverine Swamp Forest Mosaic	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	48	2	49	127	0	48	0	13	189	0.0	26.0	0.0
Vic Riverina	1035	Floodplain Riparian Woodland/Sedgy Riverine Forest Mosaic	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	28	0	28	0	0	28	0	74	102	0.0	27.7	0.0
Vic Riverina	1040	Riverine Grassy Woodland/Riverine Swampy Woodland Mosaic	14	Riverine Grassy Woodlands or Forests	Endangered	0	140	153	293	399	0	140	0	4016	4708	0.0	6.2	0.0
Vic Riverina	1041	Riverine Grassy Woodland/Sedgy Riverine Forest Mosaic	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	46	0	46	23	0	46	0	18	87	0.0	53.1	0.0
Vic Riverina	1052	Floodplain Grassy Wetland/Riverine Swampy Woodland Mosaic	18	Wetlands	Endangered	0	0	0	0	0	0	0	0	83	83	0.0	0.0	0.0
Vic Riverina	1063	Grassy Riverine Forest/Sedgy Riverine Forest Mosaic	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	0	0	0	74	0	0	0	74	0.0	0.0	0.0	
Vic Riverina	1068	Riverine Swamp Forest/Sedgy Riverine Forest Mosaic	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	3	0	3	0	0	3	0	3	6	0.0	45.4	0.0
Vic Riverina	1081	Spike-sedge Wetland/Tall Marsh Mosaic	18	Wetlands	Vulnerable	0	50	0	50	0	0	50	0	0	50	0.0	99.8	0.0
Vic Riverina	1085	Mountain Valley Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	0	6	2	8	564	0	6	0	292	863	0.0	0.9	0.0
Vic Riverina	1087	Tall Marsh/Aquatic Herbland Mosaic	18	Wetlands	Vulnerable	0	7	0	7	0	0	7	0	0	7	0.0	100.0	0.0
Vic Riverina	1090	Tall Marsh/Open Water Mosaic	18	Wetlands	Depleted	0	97	0	97	0	0	97	0	24	120	0.0	80.3	0.0
Total						1,958,076	35,025	1,458	36,484	30,170	0	35,025	407	363,338	430,399	22.0%	8.1%	1.8%

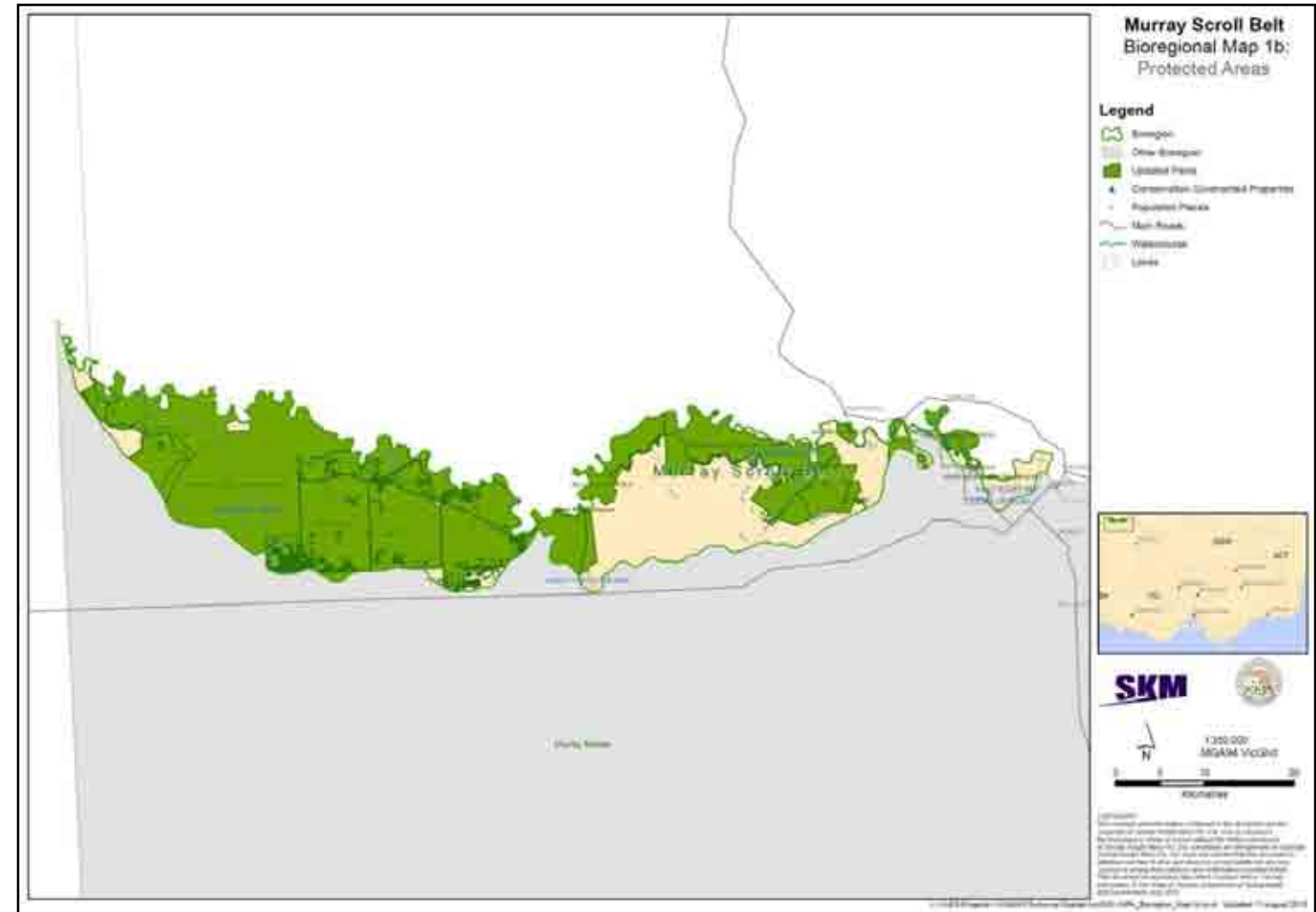
10. Murray Scroll Belt

Bioregion size: 116 143 ha
 Native vegetation cover: 104 405 ha (91%)
 Conservation reserve cover (excludes State Forests): 78 945 ha (76%)

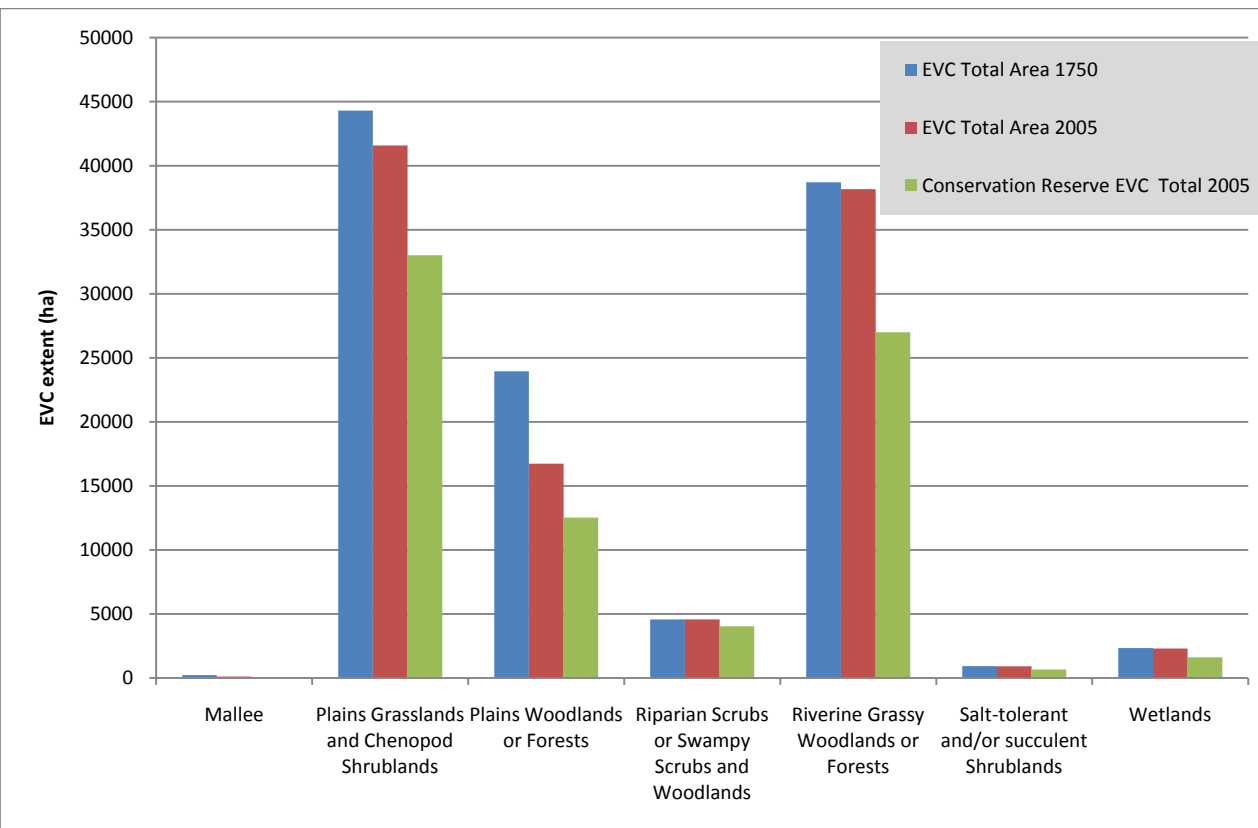
Conservation Priorities

Approximately 76% of the remaining native vegetation is already under conservation protection and little unprotected vegetation is present on non-conservation public land. The Bioregion is largely fragmented and would benefit from increasing connectivity between native vegetation remnant patches.

The Murray Scroll Belt Bioregion (MSB) covers approximately 116 143 ha along the Murray River, from the Victorian-South Australian border to Mildura. The Bioregion is predominately river valley and associated floodplain supporting Alluvial-Plain Shrubland, Riverine Grassy Chenopod Woodland and Riverine Grassy Forest. Mildura and Wentworth are the major municipalities in the Bioregion. The Murray Scroll Belt is Sub-region RIV6 of the Riverina Interim Biogeographic Regionalisation of Australia (IBRA) Bioregion. The Bioregion falls within the Mallee Catchment Management Authority (CMA) area. Under the proposed alignment of new Natural Resource & Catchment Authorities (NCRA) to be implemented in 2011, the Mallee CMA will become part of the Wimmera-Mallee NCRA. The uppermost section of the Murray-Sunset National Park is also located in the west of the Bioregion.

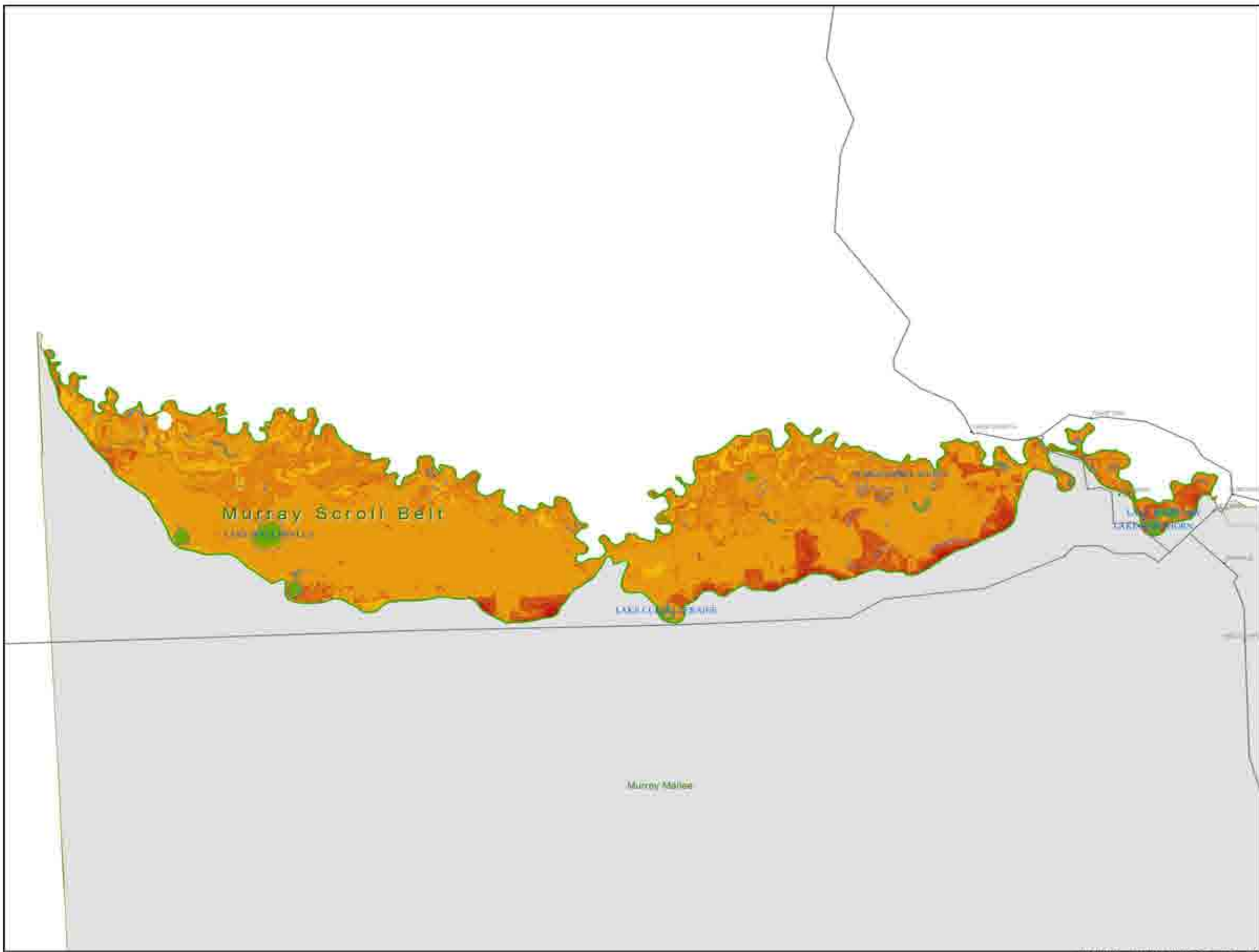


■ **Figure 10-2 Protected Areas – Murray Scroll Belt**



■ **Figure 10-1 EVC Group Breakdown**

Native vegetation in the Bioregion comprises 20 Ecological Vegetation Classes (EVCs) and one (1) EVC complex. Two (2) EVCs with a Bioregional Conservation Status (BCS) of Endangered are supported by the region, however, collectively the Endangered EVCs cover only 44 ha, almost all of which is protected in conservation reserves. Approximately 91% of the pre-1750 EVCs remain in the Bioregion, however, the remaining native vegetation is largely fragmented. About 76% of the remaining vegetation is protected on conservation land. The Bioregion supports habitat for the Commonwealth Environment Protection and Biodiversity Conservation (EPBC) Act listed Buloke Woodlands of the Riverina and Murray-Darling Depression Bioregions, listed as Endangered, and Growling Grass Frog (*Litoria raniformis*), listed as Vulnerable. Land use in the Bioregion is predominately conservation, recreation and grazing. Grazing pressure, pest plants and animals and changed hydrogeology and increased salinity in the Murray River present the greatest ongoing threats to the Bioregion. The region is also likely to become hotter and drier, due to climate change effects, which will increase the likelihood of both bushfire and drought in the region.



**Murray Scroll Belt
Bioregional Map 1a:
Landscape Priorities**

Legend

- Bioregion
- Other Bioregion
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes

Landscape Importance

High : 20
Low : 1



SKM

1:350,000
MGA94 VicGrid

0 5 10 20
Kilometres

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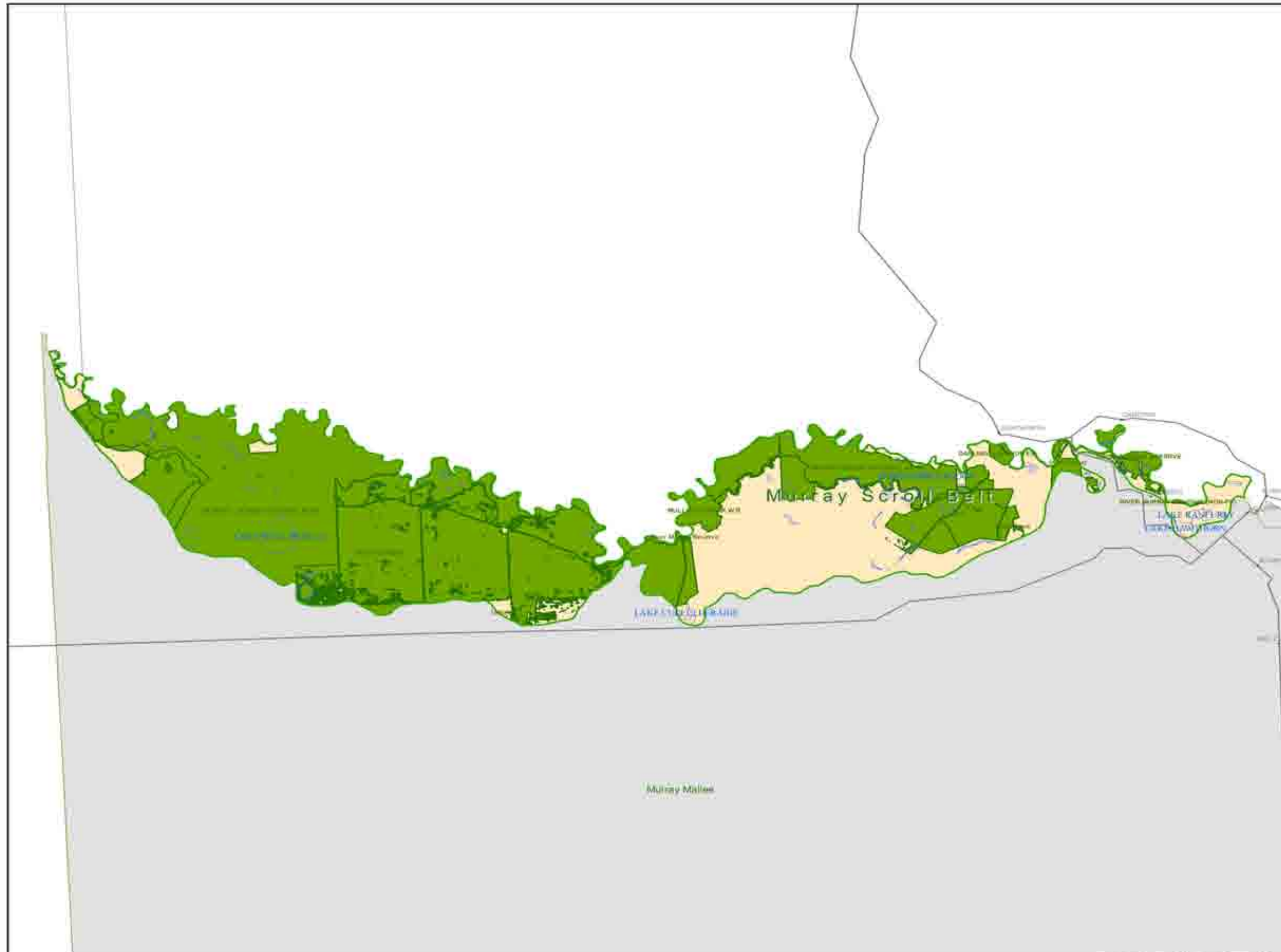
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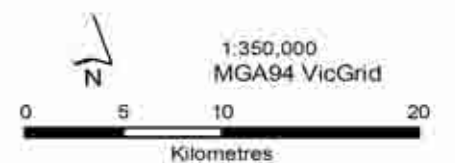
Murray Scroll Belt Bioregional Map 1b: Protected Areas

Legend

- Bioregion
- Other Bioregion
- Updated Parks
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes



SKM



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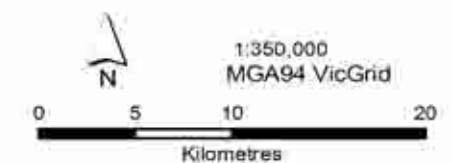
Murray Scroll Belt Bioregional Map 2a: Vegetation Conservation Significance

Legend

- Bioregion
- Other Bioregion
- Updated Parks
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes

EVC Bioregional Conservation Status

- Endangered
- Vulnerable
- Depleted
- Rare
- Least Concern

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Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Murray Scroll Belt	86	Woorinen Sands Mallee	17	Mallee	Depleted	15	0	0	0	1	0	0	0	1	2	15.9	8.9	1.4
Murray Scroll Belt	97	Semi-arid Woodland	13	Plains Woodlands or Forests	Vulnerable	1101	599	8	608	24	127	727	0	40	799	72.5	76.1	55.2
Murray Scroll Belt	98	Semi-arid Chenopod Woodland	13	Plains Woodlands or Forests	Depleted	22845	6831	246	7078	217	4974	11805	0	3665	15933	69.7	44.4	31.0
Murray Scroll Belt	102	Low Chenopod Shrubland	12	Plains Grasslands and Chenopod Shrublands	Depleted	40861	10870	109	10979	223	18838	29709	0	8103	38144	93.4	28.8	26.9
Murray Scroll Belt	103	Riverine Chenopod Woodland	14	Riverine Grassy Woodlands or Forests	Depleted	17891	9300	243	9543	397	827	10127	0	6684	17452	97.5	54.7	53.3
Murray Scroll Belt	104	Lignum Swamp	18	Wetlands	Vulnerable	0	899	8	907	30	83	981	0	65	1085	0.0	83.6	0.0
Murray Scroll Belt	104	Lignum Wetland	18	Wetlands		1111	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Murray Scroll Belt	106	Grassy Riverine Forest	14	Riverine Grassy Woodlands or Forests	Depleted	1016	817	0	817	45	0	818	0	153	1015	99.9	80.5	80.4
Murray Scroll Belt	107	Lake Bed Herbland	18	Wetlands	Vulnerable	717	198	0	198	448	0	198	0	58	704	98.2	28.1	27.6
Murray Scroll Belt	158	Chenopod Mallee	17	Mallee	Vulnerable	210	70	0	70	10	9	79	0	30	119	56.8	58.6	33.3
Murray Scroll Belt	200	Shallow Freshwater Marsh	18	Wetlands	Vulnerable	69	68	0	68	0	0	68	0	1	69	100.1	98.4	98.5
Murray Scroll Belt	295	Riverine Grassy Woodland	14	Riverine Grassy Woodlands or Forests		11	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Murray Scroll Belt	806	Alluvial Plains Semi-arid Grassland	12	Plains Grasslands and Chenopod Shrublands	Vulnerable	3441	3007	44	3051	17	290	3297	0	82	3439	100.0	88.7	88.7
Murray Scroll Belt	807	Disused Floodway Shrubby Herbland	18	Wetlands	Endangered	23	23	0	23	0	0	23	0	0	23	100.1	100.0	100.1
Murray Scroll Belt	808	Lignum Shrubland	14	Riverine Grassy Woodlands or Forests	Least Concern	10949	8301	155	8456	89	753	9053	0	1624	10921	99.7	77.4	77.2
Murray Scroll Belt	809	Floodplain Grassy Wetland	18	Wetlands	Endangered	21	19	0	19	0	1	21	0	0	21	99.8	93.3	93.1
Murray Scroll Belt	810	Floodway Pond Herbland	18	Wetlands	Depleted	341	274	3	277	13	12	286	0	39	341	99.9	81.2	81.1
Murray Scroll Belt	811	Grassy Riverine Forest/Floodway Pond Herbland Complex	14	Riverine Grassy Woodlands or Forests	Depleted	285	215	0	215	13	13	228	0	44	285	99.8	75.5	75.4
Murray Scroll Belt	813	Intermittent Swampy Woodland	14	Riverine Grassy Woodlands or Forests	Depleted	3467	3011	2	3014	55	118	3129	0	283	3470	100.1	86.8	86.9
Murray Scroll Belt	815	Riverine Swampy Woodland	14	Riverine Grassy Woodlands or Forests		5	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Murray Scroll Belt	818	Shrubby Riverine Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	4583	3763	38	3801	107	275	4038	0	396	4579	99.9	83.0	83.0
Murray Scroll Belt	819	Spike-sedge Wetland	18	Wetlands	Vulnerable	56	41	0	41	0	0	41	0	15	56	100.1	73.3	73.4
Murray Scroll Belt	820	Sub-saline Depression Shrubland	19	Salt-tolerant and/or succulent Shrublands	Vulnerable	927	669	28	697	0	0	669	0	217	914	98.6	76.2	75.1
Murray Scroll Belt	823	Lignum Swampy Woodland	14	Riverine Grassy Woodlands or Forests	Depleted	5080	3160	275	3435	201	488	3649	0	908	5032	99.1	68.3	67.6
Murray Scroll Belt	824	Woorinen Mallee	17	Mallee		4	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Total						115,029	52,136	1,161	53,297	1,891	26,809	78,945	0	22,408	104,405	90.8%	75.6%	68.6%



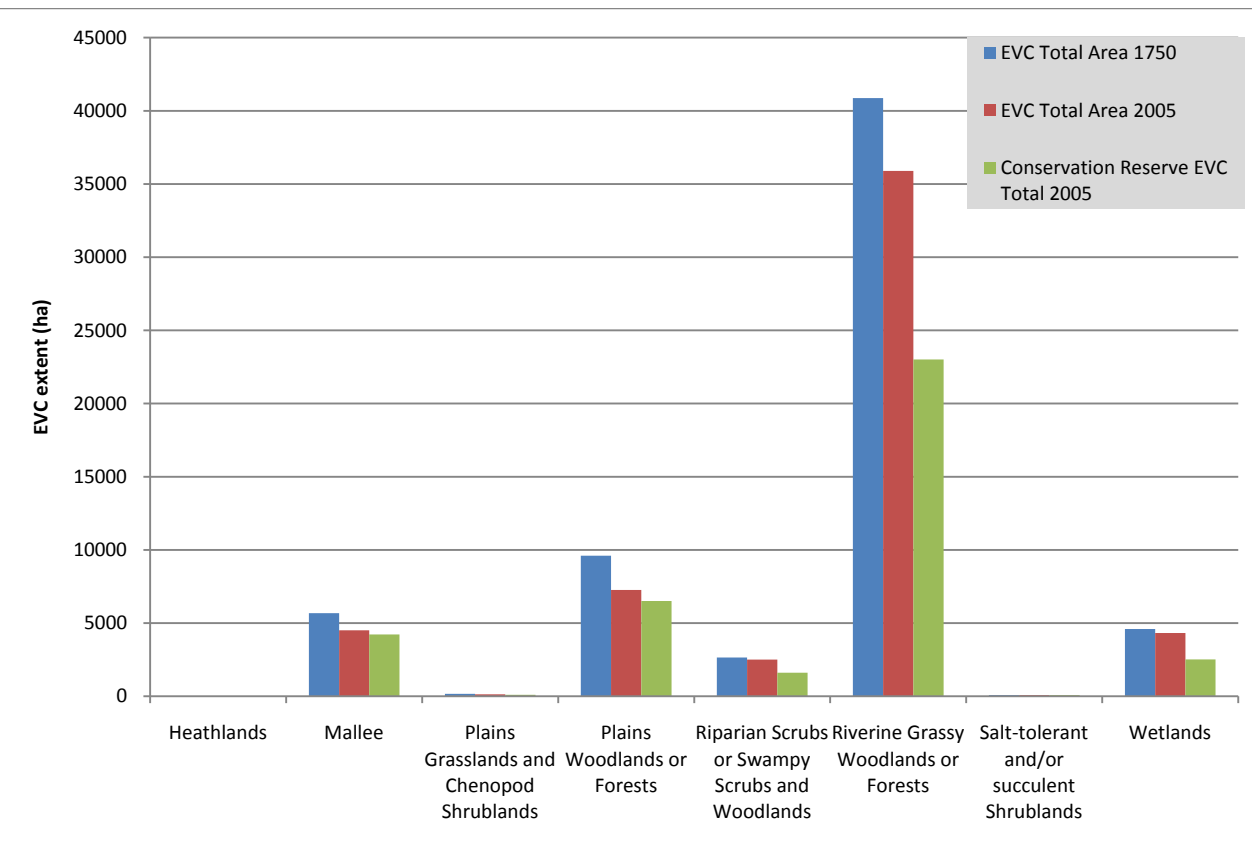
11. Robinvale Plains

Bioregion size: 64 186 ha
 Native vegetation cover: 54 720 ha (86%)
 Conservation reserve cover (excludes State Forests): 38 067 ha (70%)

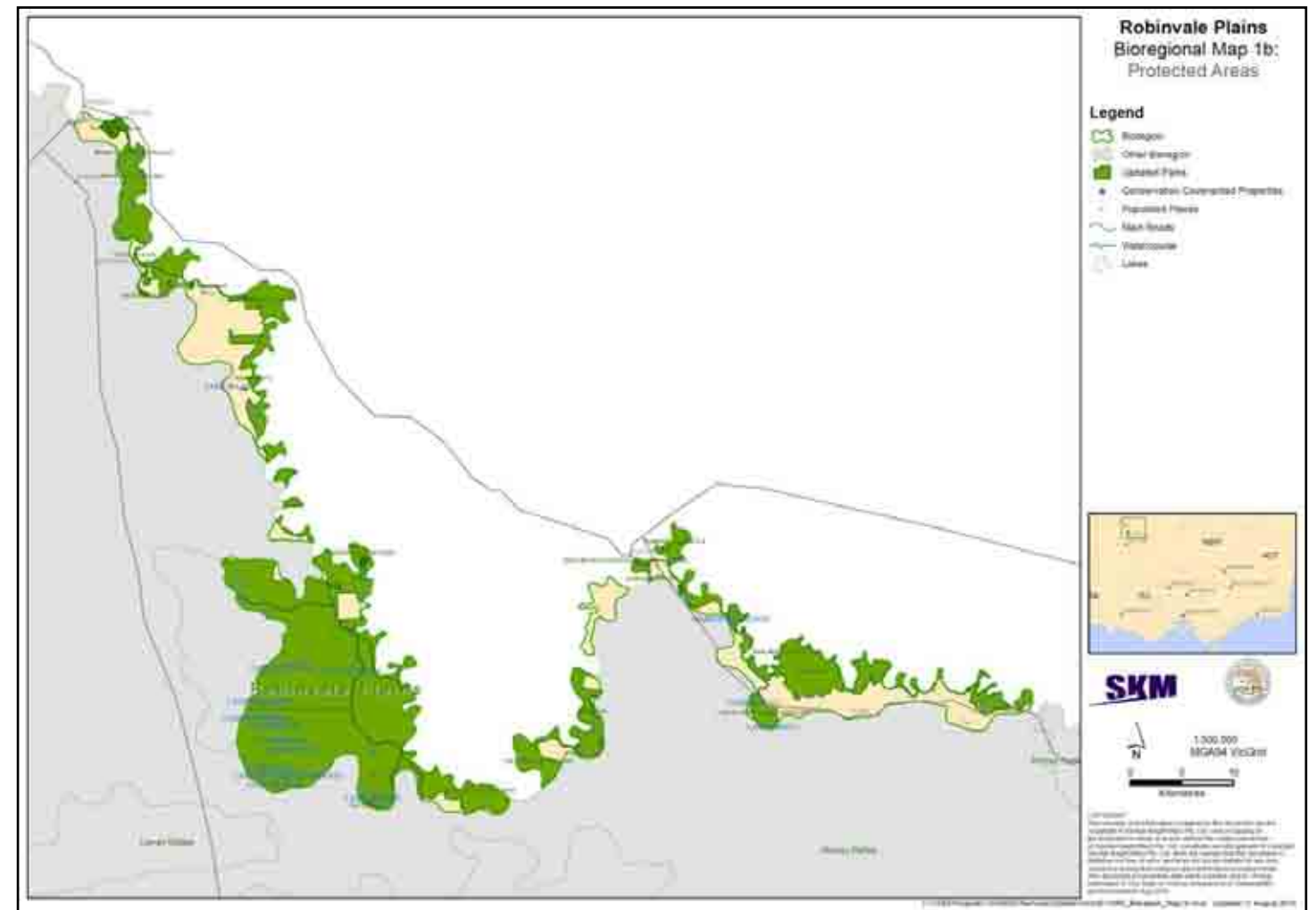
Conservation Priorities

Little native vegetation remains on non-conservation public land in the Bioregion and, of the vegetation that does, no significant areas of Endangered EVCs are present. Some areas of Riverine Grassy Woodlands or Forest EVC groups are available to increase the percentage of these EVCs protected. Additionally, protection of the small areas of remaining Riparian vegetation would improve connectivity between native vegetation patches in the Bioregion.

The Robinvale Plains Bioregion (RobP) covers approximately 64 186 ha, and is predominately a narrow gorge along the Murray River, starting from Mildura, stretching south towards Swan Hill. The Bioregion generally supports Riverine Grassy Forest and Riverine Grassy Chenopod Woodland. The Robinvale Plains Bioregion is Sub-region RIV5 of the Riverina Interim Biogeographic Regionalisation of Australia (IBRA) Bioregion. The region falls entirely within the Mallee Catchment Management Authority (CMA) area. Under the proposed alignment of new Natural Resource & Catchment Authorities (NCRA) to be implemented in 2011, the Mallee CMA will become part of the Wimmera-Mallee NCRA. The Hattah-Kulkyne National Park, which contains the Hattah-Kulkyne Lakes Ramsar site, is also located within the Robinvale Plains Bioregion.

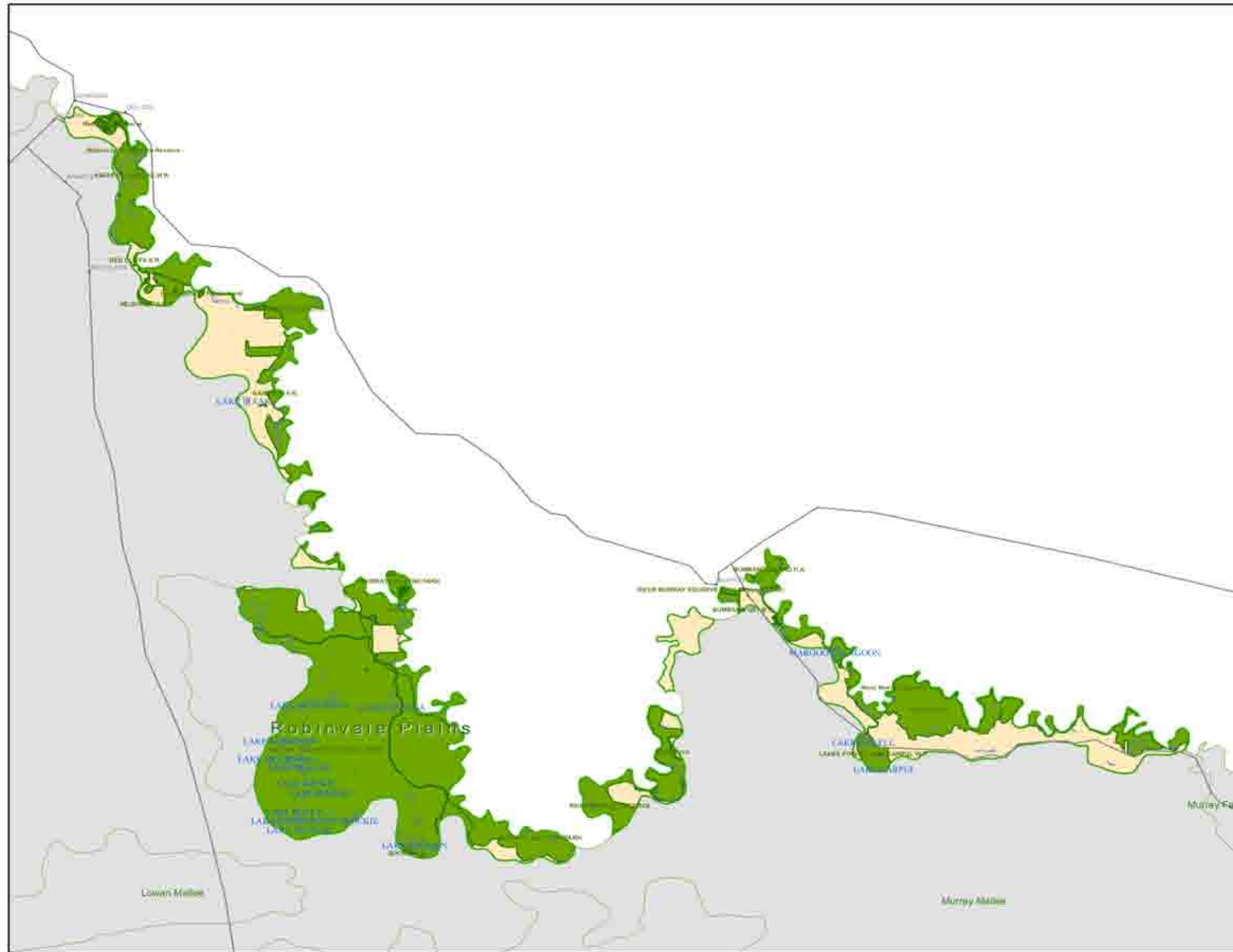


■ Figure 11-1 EVC Group Breakdown



■ Figure 11-2 Protected Areas – Robinvale Plains

The Bioregion supports 27 Ecological Vegetation Classes (EVCs) and one (1) EVC complex. Of the 29 EVCs present, three (3) have a Bioregional Conservation Status (BCS) of Endangered, however, the Endangered EVCs collectively cover only 20 ha of the Bioregion. Due to the high proportion of land conserved in National Parks in the Bioregion, 86% of the pre-1750 EVCs have been retained, with 70% of remaining vegetation on conservation land. The region also provides habitat for several nationally significant communities and species, including the Commonwealth Environment Protection and Biodiversity Conservation (EPBC) Act listed Buloke Woodlands of the Riverina and Murray-Darling Depression Bioregions, Black-eared Miner (*Manorina melanotis*) and Mallee Emu-wren (*Stipiturus mallee*), all listed as Endangered under the EPBC Act, and Growling Grass Frog (*Litoria raniformis*), listed as Vulnerable. Land use within the Bioregion is largely conservation or grazing. The Hattah-Kulkyne National Park also had a long history of grazing use, prior to reservation. Current management practices include routine kangaroo culling and control of rabbits to reduce the threat of grazing pressure on the Bioregion. Climate change will cause the region to become hotter and drier, increase the risk of bushfire and drought and reduce the flow of the Murray River through the region.



**Robinvale Plains
Bioregional Map 1b:
Protected Areas**

Legend

- Bioregion
- Other Bioregion
- Updated Parks
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes



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MGA94 VicGrid

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**Robinvale Plains
Bioregional Map 2a:
Vegetation Conservation
Significance**

Legend

- Bioregion
- Other Bioregion
- Updated Parks
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes

EVC Bioregional Conservation Status

- Endangered
- Vulnerable
- Depleted
- Rare
- Least Concern



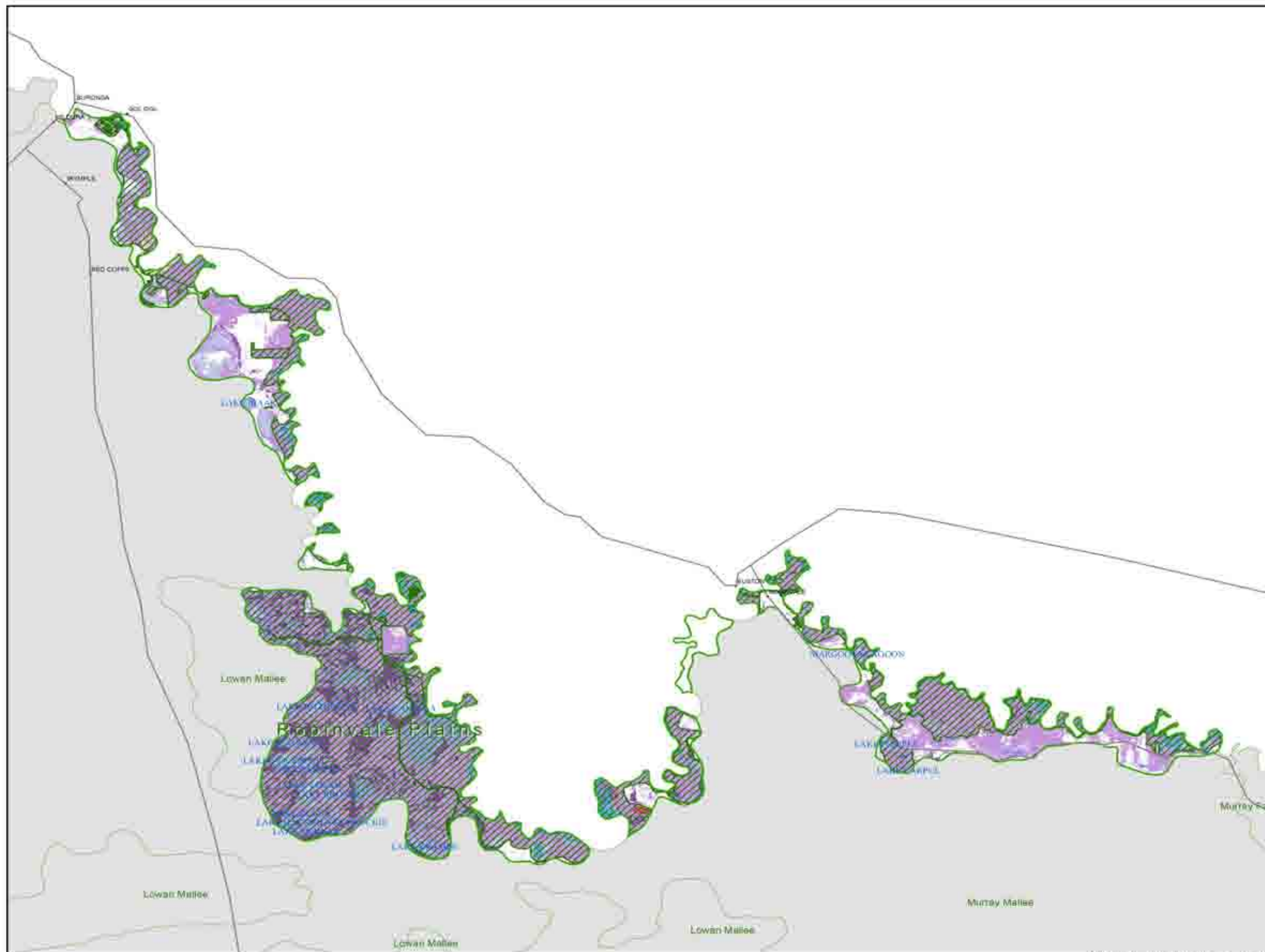
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**Robinvale Plains
Bioregional Map 2b:
EVC Groups**

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- EVC Group**
- Coastal Scrubs Grasslands and Woodlands
 - Heathy Woodlands
 - Lowland Forests
 - Box Ironbark Forests or dry/low fertility Woodlands
 - Lower Slopes of Hills Woodlands
 - Dry Forests
 - Wet or Damp Forests
 - Riparian Scrubs or Swampy Scrubs and Woodlands
 - Rainforests
 - Montana Grasslands, Shrublands or Woodlands
 - Sub-alpine Grasslands, Shrublands or Woodlands
 - Plains Grasslands and Chenopod Shrublands
 - Plains Woodlands or Forests
 - Riverine Grassy Woodlands or Forests
 - Herb-rich Woodlands
 - Heathlands
 - Mallee
 - Wetlands
 - Salt-tolerant and/or succulent Shrublands
 - Rocky Outcrop or Escarpment Scrubs
 - No native vegetation recorded



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Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Rob Plains	86	Woorinen Sands Mallee	17	Mallee	Depleted	2324	2168	1	2169	1	0	2168	0	24	2194	94.4	98.9	93.3
Rob Plains	89	Dunefield Heathland	16	Heathlands		9	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Rob Plains	91	Loamy Sands Mallee	17	Mallee	Least Concern	1266	1234	0	1234	0	0	1234	0	7	1241	98.0	99.4	97.5
Rob Plains	96	Ridged Plains Mallee	17	Mallee	Endangered	0	0	0	0	0	0	0	0	0	0	99.4	100.0	99.4
Rob Plains	97	Semi-arid Woodland	13	Plains Woodlands or Forests	Vulnerable	7385	6310	33	6343	9	0	6310	0	253	6605	89.4	96.0	85.9
Rob Plains	98	Semi-arid Chenopod Woodland	13	Plains Woodlands or Forests	Vulnerable	1698	170	95	265	22	0	170	0	223	510	30.0	52.0	15.6
Rob Plains	102	Low Chenopod Shrubland	12	Plains Grasslands and Chenopod Shrublands	Depleted	80	45	0	45	6	0	45	0	11	61	77.1	73.6	56.8
Rob Plains	103	Riverine Chenopod Woodland	14	Riverine Grassy Woodlands or Forests	Depleted	16230	9524	1231	10755	318	0	9524	0	2499	13572	83.6	79.2	66.3
Rob Plains	104	Lignum Swamp	18	Wetlands	Vulnerable	0	206	235	441	125	0	206	0	957	1523	0.0	28.9	0.0
Rob Plains	104	Lignum Wetland	18	Wetlands		1748	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Rob Plains	106	Grassy Riverine Forest	14	Riverine Grassy Woodlands or Forests	Depleted	1898	1641	48	1689	44	0	1641	0	120	1854	97.7	91.1	89.0
Rob Plains	107	Lake Bed Herbland	18	Wetlands	Depleted	1702	1623	0	1623	74	0	1623	0	4	1701	99.9	95.4	95.3
Rob Plains	132	Plains Grassland	12	Plains Grasslands and Chenopod Shrublands	Endangered	5	1	0	1	0	0	1	0	0	1	18.8	84.8	15.9
Rob Plains	158	Chenopod Mallee	17	Mallee	Vulnerable	1303	174	13	187	3	0	174	0	221	411	31.5	45.5	14.4
Rob Plains	200	Shallow Freshwater Marsh	18	Wetlands	Vulnerable	444	258	156	414	0	0	258	0	12	425	95.7	97.2	93.1
Rob Plains	295	Riverine Grassy Woodland	14	Riverine Grassy Woodlands or Forests	Depleted	4354	3612	284	3896	56	0	3612	0	190	4142	95.1	94.1	89.5
Rob Plains	803	Plains Woodland	13	Plains Woodlands or Forests	Endangered	2	0	2	2	0	0	0	0	0	2	87.5	99.4	87.0
Rob Plains	806	Alluvial Plains Semi-arid Grassland	12	Plains Grasslands and Chenopod Shrublands	Vulnerable	80	53	0	54	18	0	53	0	3	74	93.0	72.5	67.4
Rob Plains	808	Lignum Shrubland	14	Riverine Grassy Woodlands or Forests	Least Concern	4725	1274	1439	2713	138	0	1274	0	1214	4066	86.0	66.7	57.4
Rob Plains	809	Floodplain Grassy Wetland	18	Wetlands	Endangered	17	0	17	17	0	0	0	0	0	17	100.0	100.0	100.0
Rob Plains	810	Floodway Pond Herbland	18	Wetlands	Depleted	488	283	151	434	5	0	283	0	39	479	98.0	90.7	88.9
Rob Plains	811	Grassy Riverine Forest/Floodway Pond Herbland Complex	14	Riverine Grassy Woodlands or Forests	Depleted	729	506	114	620	29	0	506	0	43	692	94.9	89.5	85.0
Rob Plains	813	Intermittent Swampy Woodland	14	Riverine Grassy Woodlands or Forests	Depleted	5157	4054	502	4555	89	0	4054	0	354	4999	96.9	91.1	88.3
Rob Plains	816	Sedgy Riverine Forest	14	Riverine Grassy Woodlands or Forests	Depleted	5	5	0	5	0	0	5	0	0	5	99.7	100.0	99.7
Rob Plains	818	Shrubby Riverine Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	2646	1613	649	2262	152	0	1613	0	93	2507	94.7	90.2	85.5
Rob Plains	819	Spike-sedge Wetland	18	Wetlands	Vulnerable	99	87	13	99	0	0	87	0	0	99	100.0	100.0	100.0
Rob Plains	820	Sub-saline Depression Shrubland	19	Salt-tolerant and/or succulent Shrublands	Depleted	84	84	0	84	0	0	84	0	0	84	99.9	100.0	99.9
Rob Plains	821	Tall Marsh	18	Wetlands	Depleted	100	64	6	70	0	0	64	0	13	83	83.6	84.0	70.3
Rob Plains	823	Lignum Swampy Woodland	14	Riverine Grassy Woodlands or Forests	Depleted	7767	2399	1377	3776	305	0	2399	0	2478	6559	84.4	57.6	48.6
Rob Plains	824	Woorinen Mallee	17	Mallee	Vulnerable	791	644	1	645	1	0	644	0	21	667	84.3	96.7	81.5
Rob Plains	828	Semi-arid Parilla Woodland	13	Plains Woodlands or Forests	Vulnerable	518	35	20	55	23	0	35	0	68	146	28.1	37.8	10.6
Total						63,656	38,067	6,386	44,453	1,418	0	38,067	0	8,849	54,720	86.0%	69.6%	59.8%



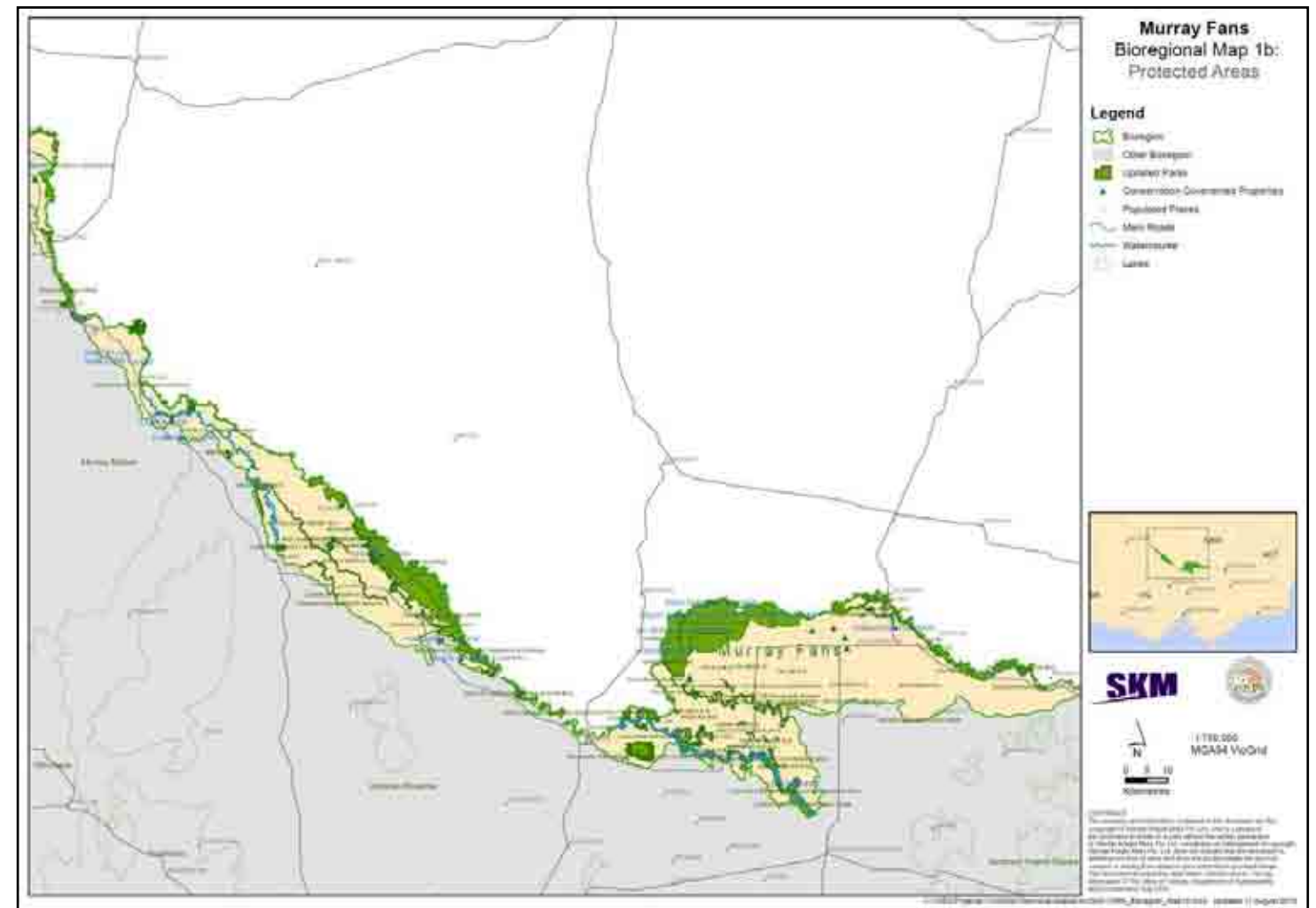
12. Murray Fans

Bioregion size: 266 815 ha
 Native vegetation cover: 173 528 ha (34%)
 Conservation reserve cover (excludes State Forests): 54 319 ha (31%)

Conservation Priorities

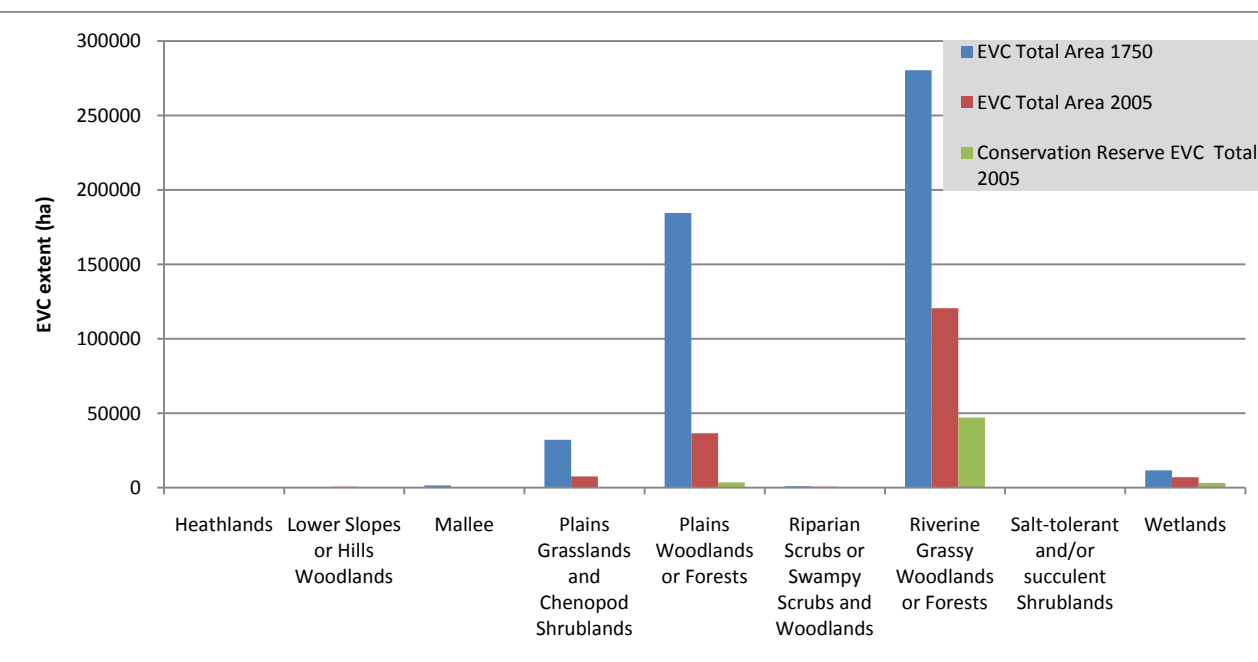
Little native vegetation remains on unprotected public land. What remains is largely in the Riverine Grassy Woodlands or Forests and Plains Woodland or Forest EVC groups located within State Forests. Small areas of Endangered EVCs are present within these groups, so increased conservation protection for these areas are a conservation priority.

The Murray Fans Bioregion (MuF) covers approximately 266 815 ha, running along the Murray River between Swan Hill and Rutherglen, extending north into New South Wales. The area is typified by flat to gently undulating landscapes and broad floodplain areas, supporting a mosaic of Plains Grassy Woodland, Pine Box Woodland, Riverina Plains Grassy Woodland and Riverina Grassy Woodland. The Avoca, Loddon, Campaspe, Goulburn, Ovens and Murray rivers flow through the Bioregion. The Murray Fans is also classified as Sub-region RIV3 of the Riverina Interim Biogeographic Regionalisation of Australia (IBRA). The Victorian portion of the Bioregion falls mostly within the Goulburn Broken Catchment Management Authority (CMA) the North Central CMA areas, with a small part of the region falling within the Mallee CMA area. Under the proposed alignment of new Natural Resource and Catchment Authorities (NRCA) to be implemented in 2011, the Goulburn Broken CMA and the North Central CMA will become part of the Northern Rivers NRCA, while the Mallee CMA will become part of the Wimmera-Mallee NRCA. Until recently, very little public land has existed in the Bioregion. In 2010, three (3) new national parks were established in the region (Barmah, Gunbower and Lower Goulburn National Parks). Grazing and logging will be phased out of the national parks over the next four (4) years, however, recreational shooting will continue to be permitted. Barmah forest and Gunbower forest are Ramsar listed sites within the Bioregion.

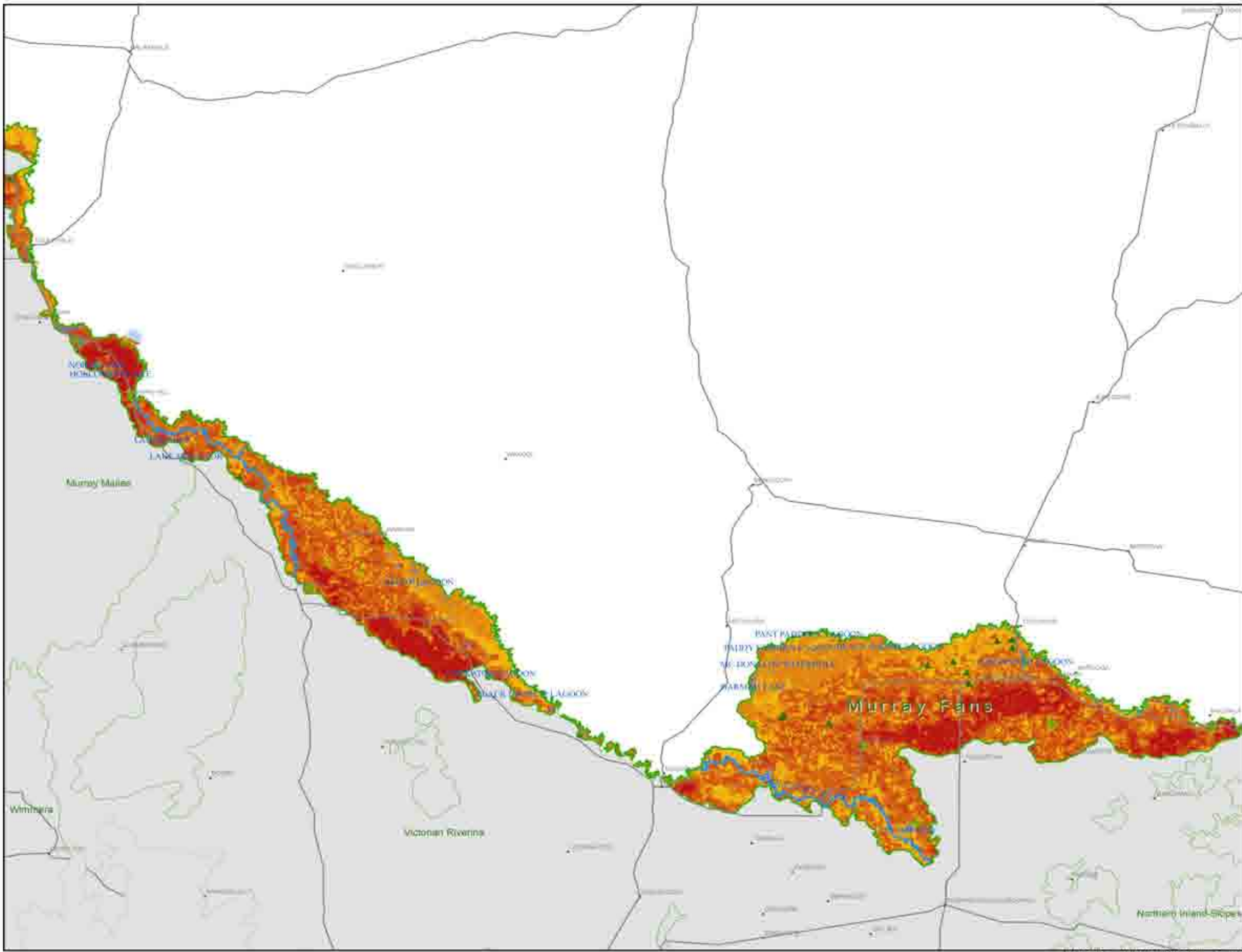


■ **Figure 12-2 Protected Areas – Murray Fans**

There are 42 Ecological Vegetation Class (EVC) Benchmarks for this Bioregion and a further 81 EVC mosaics and complexes. Of the 123 EVCs, 24 are listed with a Bioregional Conservation Status (BCS) of Endangered. Large areas of the Bioregion have been cleared with approximately 34% of pre-1750 EVCs remaining today and only 31% of this is protected on conservation land. EVC 803 – Plains Woodland covers the largest area of the Endangered EVCs, however, only 12% of this EVC is protected. The Bioregion also supports a range of nationally significant communities and species including Commonwealth Environment Protection and Biodiversity Conservation (EPBC) Act listed Buloke Woodlands of the Riverina and Murray-Darling Depression Bioregions, listed as Endangered and Growling Grass Frog (*Litoria raniformis*), listed as Vulnerable. Eight (8) migratory species and 13 listed marine species are known in the area, as well as the State Flora and Fauna Guarantee (FFG) Act listed Brolga (*Grus rubicunda*) and Regent Honeyeater (*Xanthomyza phrygia*). Additionally, *Eucalyptus oxypoma* is endemic to the Murray Fans Bioregion. Land use in the region is predominately agriculture and grazing on native pastures, while extensive River Red Gum logging has taken place over the past century. Major ongoing threats to the Bioregion are continued clearing and fragmentation of habitat and grazing pressure. Irrigation, erosion, salinity and pest animal and plants also pose a threat. The biodiversity losses in the region are likely to be amplified by the effects of climate change, which is expected to cause the region to become hotter and drier and to reduce runoff into all major river system flows between 5% and 50%.



■ **Figure 12-1 EVC Group Breakdown**



Murray Fans
Bioregional Map 1a:
Landscape Priorities

Legend

- Bioregion
- Other Bioregion
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes

Landscape Importance

High : 20
Low : 1



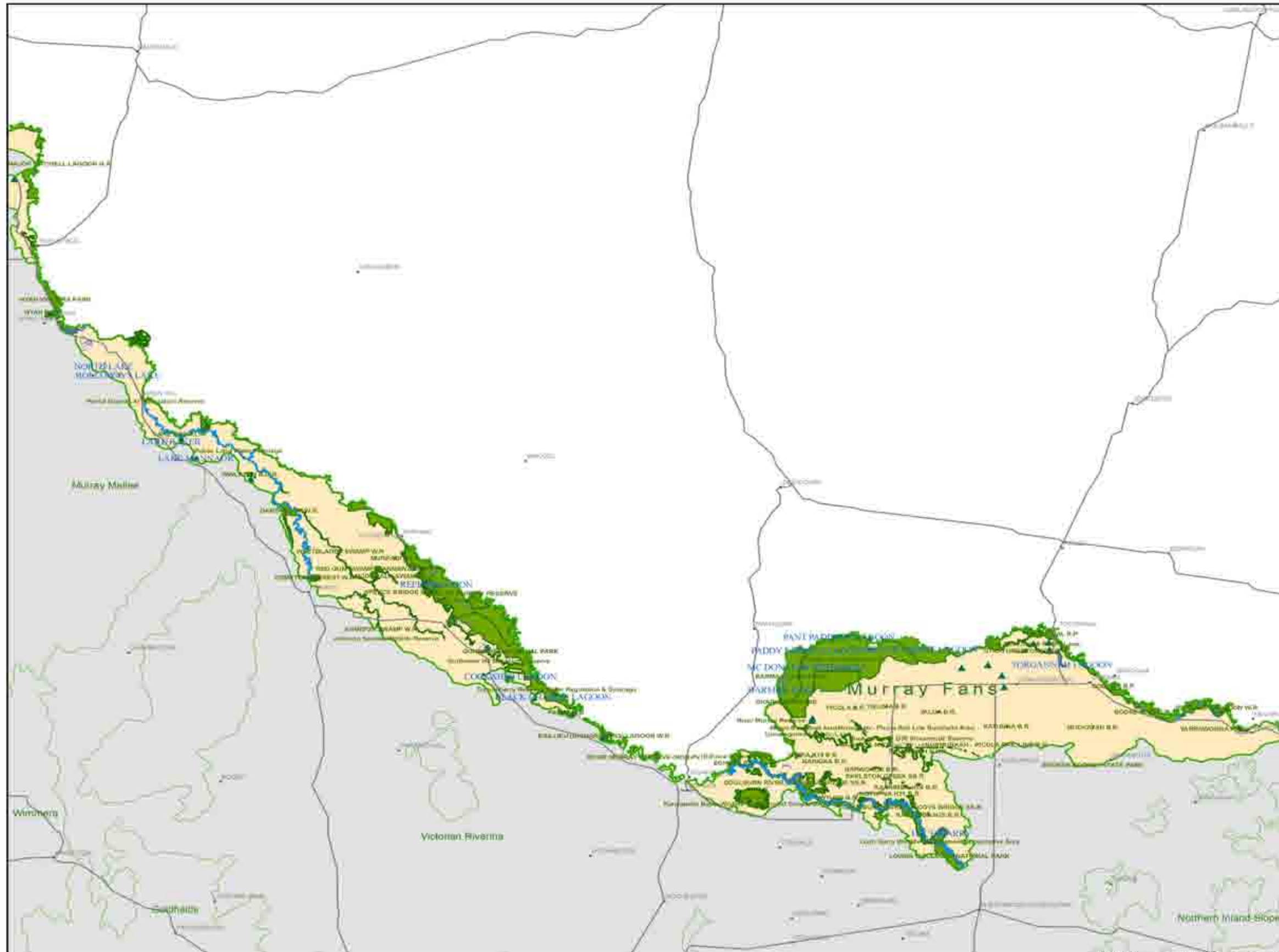
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**Murray Fans
Bioregional Map 1b:
Protected Areas**

Legend

- Bioregion
- Other Bioregion
- Updated Parks
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes



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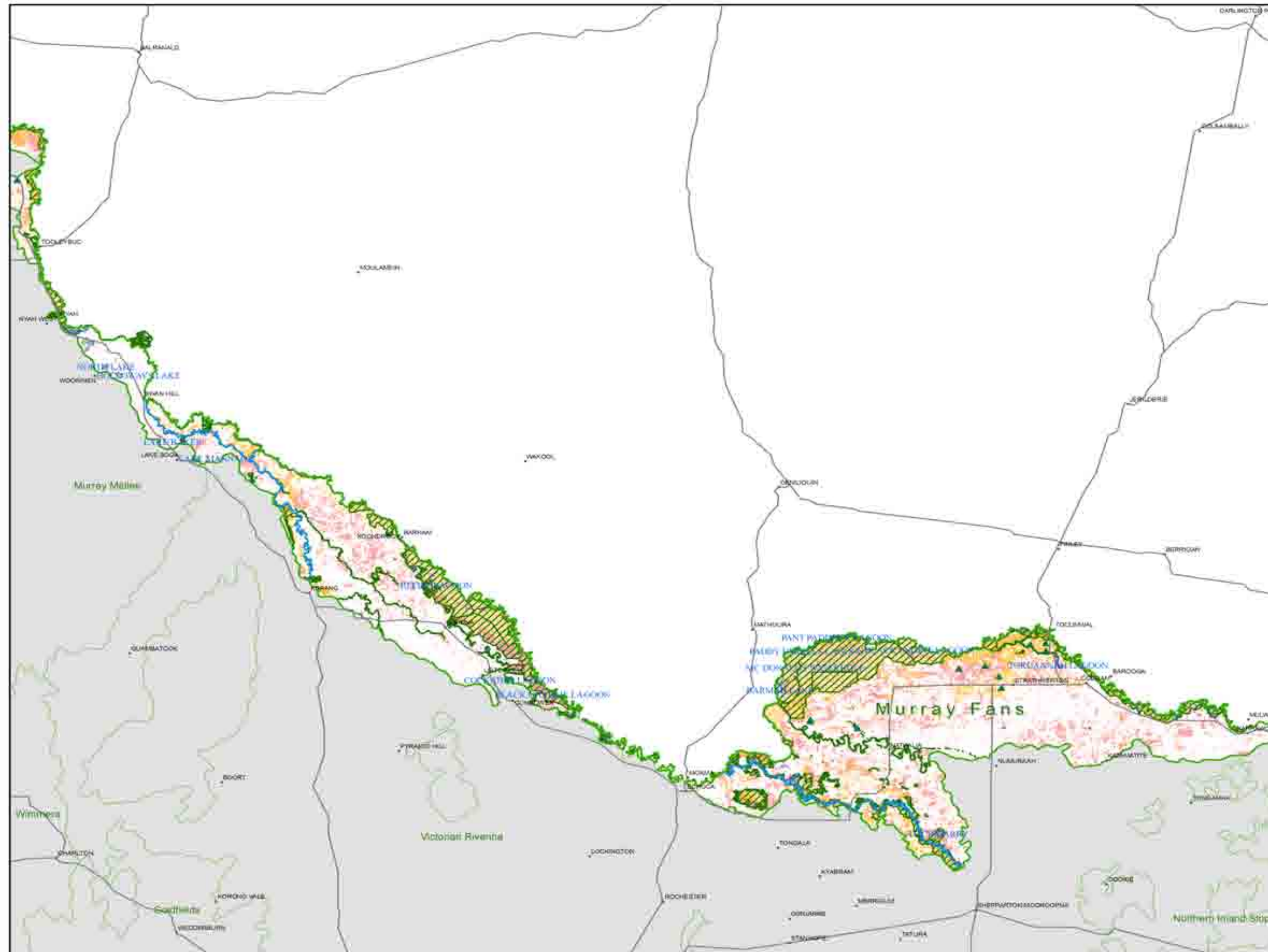


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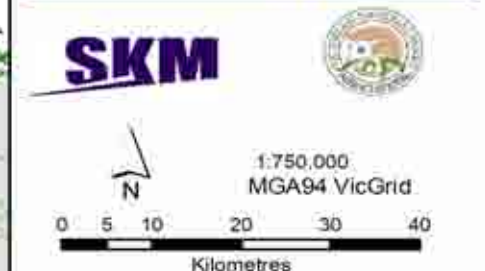
**Murray Fans
Bioregional Map 2a:
Vegetation Conservation
Significance**

Legend

- Bioregion
- Other Bioregion
- Updated Parks
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes

EVC Bioregional Conservation Status

- Exangered
- Vulnerable
- Depleted
- Rare
- Least Concern



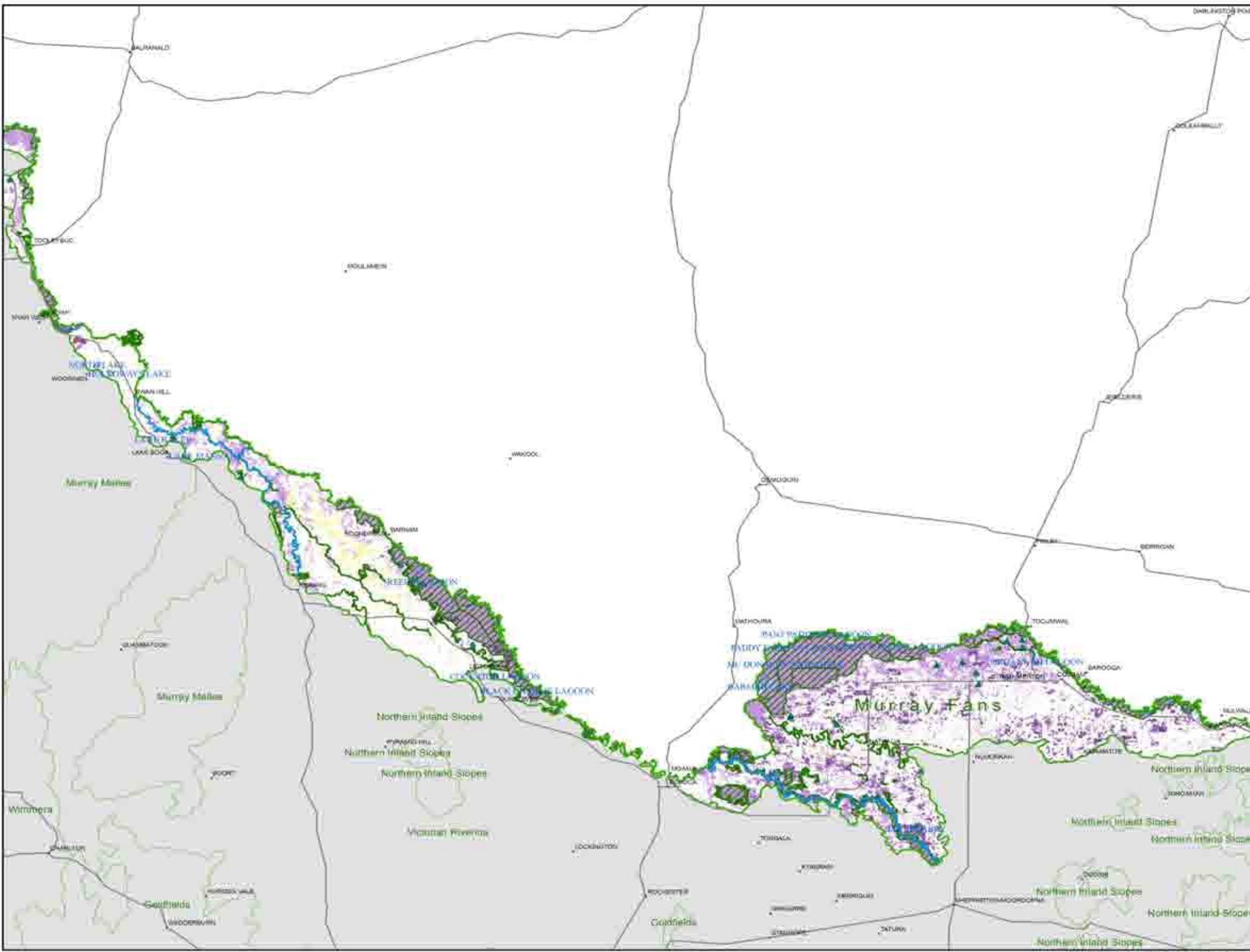
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Terrestrial Biodiversity Review



**Murray Fans
Bioregional Map 2b:
EVC Groups**

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- EVC Group**
- Coastal Scrubs, Grasslands and Woodlands
 - Heathy Woodlands
 - Lowland Forests
 - Box Ironbark Forests or dry/low fertility Woodlands
 - Lower Slopes or Hills Woodlands
 - Dry Forests
 - Wet or Damp Forests
 - Riparian Scrubs or Swampy Scrubs and Woodlands
 - Rainforests
 - Montane Grasslands, Shrublands or Woodlands
 - Sub-alpine Grasslands, Shrublands or Woodlands
 - Plains Grasslands and Chenopod Shrublands
 - Plains Woodlands or Forests
 - Riverine Grassy Woodlands or Forests
 - Herb-rich Woodlands
 - Heathlands
 - Mallee
 - Wetlands
 - Salt-tolerant and/or succulent Shrublands
 - Rocky Outcrop or Escarpment Scrubs
 - No native vegetation recorded



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Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Murray Fans	56	Floodplain Riparian Woodland	14	Riverine Grassy Woodlands or Forests	Depleted	0	2394	287	2680	414	0	2394	0	821	3915	0.0	68.5	0.0
Murray Fans	66	Low Rises Woodland	5	Lower Slopes or Hills Woodlands	Endangered	0	256	22	278	2	0	256	0	352	632	0.0	44.0	0.0
Murray Fans	66	Low Rises Woodland	5	Lower Slopes or Hills Woodlands		7	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Murray Fans	68	Creekline Grassy Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	751	225	0	225	238	0	225	0	98	561	74.6	40.2	30.0
Murray Fans	74	Wetland Formation	18	Wetlands	Endangered	1764	2	1	3	4	0	2	0	586	594	33.7	0.5	0.2
Murray Fans	86	Woorinen Sands Mallee	17	Mallee	Depleted	74	2	0	2	0	0	2	0	27	28	38.2	6.3	2.4
Murray Fans	89	Dunefield Heathland	16	Heathlands		2	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Murray Fans	91	Loamy Sands Mallee	17	Mallee	Least Concern	13	0	0	0	0	0	0	0	7	8	58.8	5.7	3.4
Murray Fans	96	Ridged Plains Mallee	17	Mallee	Endangered	172	5	8	13	0	0	5	0	16	29	16.9	45.9	7.8
Murray Fans	97	Semi-arid Woodland	13	Plains Woodlands or Forests	Vulnerable	1639	21	2	22	3	0	21	0	192	218	13.3	10.2	1.4
Murray Fans	98	Semi-arid Chenopod Woodland	13	Plains Woodlands or Forests	Endangered	1963	7	0	7	15	0	7	0	275	297	15.1	2.3	0.4
Murray Fans	101	Samphire Shrubland	19	Salt-tolerant and/or succulent Shrublands	Least Concern	309	0	0	0	276	0	0	0	12	288	93.1	0.0	0.0
Murray Fans	102	Low Chenopod Shrubland	12	Plains Grasslands and Chenopod Shrublands	Depleted	1	0	0	0	0	0	0	0	0	0	33.3	21.2	7.1
Murray Fans	103	Riverine Chenopod Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	81347	3730	915	4645	2149	0	3730	0	13102	19895	24.5	23.3	5.7
Murray Fans	104	Lignum Swamp	18	Wetlands	Vulnerable	0	32	11	42	162	0	32	0	370	575	0.0	7.4	0.0
Murray Fans	104	Lignum Wetland	18	Wetlands		1010	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Murray Fans	106	Grassy Riverine Forest	14	Riverine Grassy Woodlands or Forests	Depleted	4320	2785	449	3234	209	0	2785	0	2491	5934	137.3	54.5	74.9
Murray Fans	107	Lake Bed Herbland	18	Wetlands	Vulnerable	106	45	0	45	1	0	45	0	0	46	43.3	97.8	42.3
Murray Fans	125	Plains Grassy Wetland	18	Wetlands	Endangered	1502	8	0	8	3	0	8	0	293	304	20.2	2.6	0.5
Murray Fans	132	Plains Grassland	12	Plains Grasslands and Chenopod Shrublands	Endangered	296	4	0	4	1	0	4	0	35	39	13.1	9.5	1.3
Murray Fans	158	Chenopod Mallee	17	Mallee	Vulnerable	870	3	0	3	1	0	3	0	141	145	16.7	1.8	0.3
Murray Fans	168	Drainage-line Aggregate	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	541	90	630	376	0	541	0	1839	2845	0.0	22.2	0.0
Murray Fans	168	Drainage-line Complex	14	Riverine Grassy Woodlands or Forests		4996	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Murray Fans	172	Floodplain Wetland Aggregate	18	Wetlands	Depleted	0	53	56	109	20	0	53	0	27	156	0.0	69.5	0.0
Murray Fans	175	Grassy Woodland	5	Lower Slopes or Hills Woodlands	Endangered	198	0	0	0	0	0	0	25	0	25	12.8	0.0	0.0
Murray Fans	200	Shallow Freshwater Marsh	18	Wetlands	Vulnerable	106	1	105	106	0	0	1	0	0	106	100.0	100.0	100.0
Murray Fans	255	Riverine Grassy Woodland/Sedgy Riverine Forest/Wetland Formation Mosaic	14	Riverine Grassy Woodlands or Forests		51692	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Murray Fans	259	Plains Grassy Woodland/Gilgai Wetland Mosaic	13	Plains Woodlands or Forests	Endangered	1295	0	0	0	0	0	0	0	74	74	5.7	0.0	0.0
Murray Fans	264	Sand Ridge Woodland	13	Plains Woodlands or Forests	Endangered	3614	59	20	79	16	0	59	0	1141	1236	34.2	6.4	2.2
Murray Fans	267	Plains Grassland/Plains Grassy Woodland/Gilgai Wetland Mosaic	13	Plains Woodlands or Forests	Endangered	0	2	0	2	0	0	2	0	209	211	0.0	1.1	0.0
Murray Fans	289	Moirs Plain Wetland	18	Wetlands		2296	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Murray Fans	292	Red Gum Swamp	18	Wetlands	Vulnerable	0	0	0	0	0	0	0	0	202	203	0.0	0.0	0.0
Murray Fans	292	Red Gum Wetland	18	Wetlands		1358	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Murray Fans	295	Riverine Grassy Woodland	14	Riverine Grassy Woodlands or Forests	Vulnerable	32657	6787	1192	7979	1144	0	6787	0	16365	25488	78.0	31.3	24.4
Murray Fans	297	Billabong Wetland/Red Gum Swamp Mosaic	18	Wetlands	Vulnerable	0	0	0	0	0	0	0	13	0	13	0.0	0.0	0.0
Murray Fans	297	Billabong Wetland/Red Gum Wetland Mosaic	18	Wetlands		32	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Murray Fans	300	Reed Swamp	18	Wetlands		461	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Murray Fans	321	Riverine Chenopod Woodland/Lignum Swamp Mosaic	14	Riverine Grassy Woodlands or Forests	Endangered	0	0	0	0	0	0	0	169	0	169	0.0	0.0	0.0
Murray Fans	321	Riverine Chenopod Woodland/Lignum Wetland Mosaic	14	Riverine Grassy Woodlands or Forests		2265	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Murray Fans	333	Red Gum Swamp/Plains Grassy Wetland Mosaic	18	Wetlands	Endangered	0	1	0	1	0	0	1	0	433	435	0.0	0.2	0.0



Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Murray Fans	333	Red Gum Wetland/Plains Grassy Wetland Mosaic	18	Wetlands		1276	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Murray Fans	334	Billabong Wetland Aggregate	18	Wetlands	Depleted	0	188	166	354	157	0	188	0	165	675	0.0	52.4	0.0
Murray Fans	334	Billabong Wetland	18	Wetlands		506	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Murray Fans	641	Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands		260	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Murray Fans	652	Lunette Woodland	13	Plains Woodlands or Forests		192	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Murray Fans	653	Aquatic Herbland	18	Wetlands	Depleted	0	145	0	145	0	0	145	0	0	145	0.0	99.8	0.0
Murray Fans	803	Plains Woodland	13	Plains Woodlands or Forests	Endangered	70879	3342	80	3421	900	0	3342	0	25058	29379	41.5	11.6	4.8
Murray Fans	804	Rushy Riverine Swamp	18	Wetlands	Depleted	0	64	6	70	107	0	64	0	10	187	0.0	37.4	0.0
Murray Fans	808	Lignum Shrubland	14	Riverine Grassy Woodlands or Forests	Vulnerable	1000	156	224	380	0	0	156	0	173	553	55.3	68.8	38.1
Murray Fans	809	Floodplain Grassy Wetland	18	Wetlands	Endangered	51	475	45	520	11	0	475	0	8	539	1055.2	96.4	1017.4
Murray Fans	810	Floodway Pond Herbland	18	Wetlands	Depleted	182	166	119	285	10	0	166	0	39	334	183.5	85.4	156.7
Murray Fans	811	Grassy Riverine Forest/Floodway Pond Herbland Complex	14	Riverine Grassy Woodlands or Forests	Depleted	138	93	21	114	0	0	93	0	18	132	95.4	86.2	82.3
Murray Fans	812	Grassy Riverine Forest/Riverine Swamp Forest Complex	14	Riverine Grassy Woodlands or Forests	Depleted	1745	2318	66	2384	307	0	2318	0	1305	3996	229.0	59.7	136.6
Murray Fans	813	Intermittent Swampy Woodland	14	Riverine Grassy Woodlands or Forests	Depleted	251	80	130	210	4	0	80	0	32	246	98.2	85.2	83.7
Murray Fans	814	Riverine Swamp Forest	14	Riverine Grassy Woodlands or Forests	Depleted	7969	6103	1350	7454	197	0	6103	0	4294	11945	149.9	62.4	93.5
Murray Fans	815	Riverine Swampy Woodland	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	1436	415	1852	306	0	1436	0	2538	4696	0.0	39.4	0.0
Murray Fans	815	Riverine Swampy Woodland	14	Riverine Grassy Woodlands or Forests		3	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Murray Fans	816	Sedgy Riverine Forest	14	Riverine Grassy Woodlands or Forests	Depleted	3736	9236	768	10004	319	0	9236	0	1832	12155	325.4	82.3	267.8
Murray Fans	817	Sedgy Riverine Forest/Riverine Swamp Forest Complex	14	Riverine Grassy Woodlands or Forests	Depleted	575	3980	29	4009	50	0	3980	0	358	4417	768.2	90.8	697.3
Murray Fans	818	Shrubby Riverine Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	715	174	467	640	0	0	174	0	69	709	99.2	90.3	89.5
Murray Fans	819	Spike-sedge Wetland	18	Wetlands	Vulnerable	521	320	49	369	23	0	320	0	202	593	113.8	62.2	70.7
Murray Fans	821	Tall Marsh	18	Wetlands	Least Concern	477	752	40	792	264	0	752	0	112	1168	244.9	67.8	166.0
Murray Fans	823	Lignum Swampy Woodland	14	Riverine Grassy Woodlands or Forests	Vulnerable	15779	1666	478	2144	1613	0	1666	0	4022	7779	49.3	27.6	13.6
Murray Fans	824	Woorinen Mallee	17	Mallee	Vulnerable	374	0	0	0	1	0	0	0	26	27	7.1	0.6	0.0
Murray Fans	826	Plains Savannah	12	Plains Grasslands and Chenopod Shrublands	Endangered	22	0	0	0	0	0	0	0	5	5	24.1	0.1	0.0
Murray Fans	829	Chenopod Grassland	12	Plains Grasslands and Chenopod Shrublands	Endangered	31895	39	8	47	88	0	39	0	7247	7382	23.1	0.6	0.1
Murray Fans	867	Shallow Sands Woodland/Plains Woodland Mosaic	13	Plains Woodlands or Forests		47110	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Murray Fans	870	Riverine Grassy Woodland/Plains Woodland Complex	14	Riverine Grassy Woodlands or Forests		5296	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Murray Fans	870	Riverine Grassy Woodland/Plains Woodland Complex	14	Riverine Grassy Woodlands or Forests	Endangered	5296	0	0	0	84	0	0	0	567	650	12.3	0.0	0.0
Murray Fans	871	Riverine Grassy Woodland/Plains Woodland/Gilgai Wetland Complex	14	Riverine Grassy Woodlands or Forests		11378	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Murray Fans	871	Riverine Grassy Woodland/Plains Woodland/Gilgai Wetland Complex	14	Riverine Grassy Woodlands or Forests	Endangered	11378	17	0	17	0	0	17	0	372	389	3.4	4.3	0.1
Murray Fans	872	Riverine Grassy Woodland/Plains Woodland/Riverine Chenopod Woodland Complex	14	Riverine Grassy Woodlands or Forests		14924	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Murray Fans	872	Riverine Grassy Woodland/Plains Woodland/Riverine Chenopod Woodland Complex	14	Riverine Grassy Woodlands or Forests	Endangered	14924	0	0	0	1	0	0	0	3315	3317	22.2	0.0	0.0
Murray Fans	873	Riverine Grassy Woodland/Riverine Chenopod Woodland/Wetland Mosaic	14	Riverine Grassy Woodlands or Forests	Vulnerable	6100	14	0	14	21	0	14	0	2230	2266	37.1	0.6	0.2
Murray Fans	882	Shallow Sands Woodland	13	Plains Woodlands or Forests	Vulnerable	10716	54	1	55	15	0	54	0	1991	2061	19.2	2.6	0.5
Murray Fans	945	Floodway Pond Herbland/Riverine Swamp Forest Complex	14	Riverine Grassy Woodlands or Forests	Depleted	1999	833	205	1037	3	0	833	0	1492	2532	126.7	41.0	51.9
Murray Fans	975	Riverine Ephemeral Wetland	18	Wetlands	Vulnerable	0	1	0	1	0	0	1	0	0	1	0.0	100.0	0.0
Murray Fans	1015	Grassy Riverine Forest/Drainage-line Aggregate Mosaic	14	Riverine Grassy Woodlands or Forests	Depleted	0	3	0	3	0	0	3	0	0	3	0.0	100.0	0.0
Murray Fans	1016	Grassy Riverine Forest/Plains Grassy Woodland/Grassy Woodland Mosaic	14	Riverine Grassy Woodlands or Forests	Endangered	0	0	0	0	0	0	0	0	0	0	0.0	100.0	0.0
Murray Fans	1017	Grassy Riverine Forest/Riverine Grassy Woodland Mosaic	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	23	0	23	0	0	23	0	0	23	0.0	100.0	0.0



Terrestrial Biodiversity Review



BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Murray Fans	1019	Mosaic of Grassy Riverine Forest/Sedgy Riverine Forest-Riverine Swamp Forest Complex	14	Riverine Grassy Woodlands or Forests	Depleted	0	58	0	58	0	0	58	0	0	58	0.0	100.0	0.0
Murray Fans	1020	Mosaic of Grassy Riverine Forest/Floodway Pond Herbland-Riverine Swamp Forest Complex	14	Riverine Grassy Woodlands or Forests	Depleted	0	23	0	23	0	0	23	0	0	23	0.0	100.0	0.0
Murray Fans	1021	Mosaic of Drainage-line Aggregate/Grassy Riverine Forest-Riverine Swamp Forest Complex	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	147	0	147	0	0	147	0	0	147	0.0	100.0	0.0
Murray Fans	1022	Drainage-line Aggregate/Riverine Swamp Forest Mosaic	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	61	0	61	0	0	61	0	1	62	0.0	98.1	0.0
Murray Fans	1023	Drainage-line Aggregate/Sedgy Riverine Forest Mosaic	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	23	0	23	0	0	23	0	0	23	0.0	100.0	0.0
Murray Fans	1024	Mosaic of Drainage-line Aggregate/Sedgy Riverine Forest-Riverine Swamp Forest Complex	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	19	0	19	0	0	19	0	42	61	0.0	31.8	0.0
Murray Fans	1025	Drainage-line Aggregate/Tall Marsh Mosaic	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	3	0	3	0	0	3	0	0	3	0.0	100.0	0.0
Murray Fans	1027	Riverine Grassy Woodland/Grassy Riverine Forest-Riverine Swamp Forest Complex	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	3	0	3	0	0	3	0	0	3	0.0	100.0	0.0
Murray Fans	1028	Riverine Grassy Woodland/Riverine Swamp Forest Mosaic	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	14	0	14	0	0	14	0	0	14	0.0	100.0	0.0
Murray Fans	1029	Grassy Riverine Forest/Floodway Pond Herbland Mosaic	14	Riverine Grassy Woodlands or Forests	Depleted	0	5	0	5	0	0	5	0	0	5	0.0	100.0	0.0
Murray Fans	1030	Grassy Riverine Forest/Riverine Swamp Forest Mosaic	14	Riverine Grassy Woodlands or Forests	Depleted	0	68	0	68	0	0	68	0	1	68	0.0	98.9	0.0
Murray Fans	1031	Floodplain Riparian Woodland/Grassy Riverine Forest Mosaic	14	Riverine Grassy Woodlands or Forests	Depleted	0	0	0	0	10	0	0	0	18	28	0.0	0.0	0.0
Murray Fans	1032	Floodplain Riparian Woodland/Riverine Grassy Woodland Mosaic	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	6	0	6	0	0	6	0	0	6	0.0	93.9	0.0
Murray Fans	1033	Floodplain Riparian Woodland/Floodway Pond Herbland Mosaic	14	Riverine Grassy Woodlands or Forests	Depleted	0	3	0	3	0	0	3	0	0	3	0.0	85.1	0.0
Murray Fans	1034	Floodplain Riparian Woodland/Riverine Swamp Forest Mosaic	14	Riverine Grassy Woodlands or Forests	Depleted	0	2	43	45	0	0	2	0	2	46	0.0	96.6	0.0
Murray Fans	1035	Floodplain Riparian Woodland/Sedgy Riverine Forest Mosaic	14	Riverine Grassy Woodlands or Forests	Depleted	0	11	82	93	0	0	11	0	12	105	0.0	88.2	0.0
Murray Fans	1036	Mosaic of Floodplain Riparian Woodland/Sedgy Riverine Forest-Riverine Swamp Forest Complex	14	Riverine Grassy Woodlands or Forests	Depleted	0	0	0	0	0	0	0	0	0	0	0.0	15.2	0.0
Murray Fans	1037	Floodplain Riparian Woodland/Tall Marsh Mosaic	14	Riverine Grassy Woodlands or Forests	Depleted	0	1	0	1	0	0	1	0	0	1	0.0	100.0	0.0
Murray Fans	1038	Low Rises Woodland/Riverine Swampy Woodland Mosaic	5	Lower Slopes or Hills Woodlands	Endangered	0	2	0	2	0	0	2	0	0	2	0.0	100.0	0.0
Murray Fans	1039	Mosaic of Drainage-line Aggregate/Floodway Pond Herbland-Riverine Swamp Forest Complex	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	1	0	1	0	0	1	0	0	1	0.0	100.0	0.0
Murray Fans	1040	Riverine Grassy Woodland/Riverine Swampy Woodland Mosaic	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	258	273	531	0	0	258	0	315	846	0.0	62.8	0.0
Murray Fans	1041	Riverine Grassy Woodland/Sedgy Riverine Forest Mosaic	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	178	245	423	43	0	178	0	33	498	0.0	84.8	0.0
Murray Fans	1042	Mosaic of Riverine Grassy Woodland/Floodway Pond Herbland-Riverine Swamp Forest Complex	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	1	0	1	0	0	1	0	0	1	0.0	100.0	0.0
Murray Fans	1043	Aquatic Herbland/Floodplain Grassy Wetland Mosaic	18	Wetlands	Endangered	0	58	0	58	0	0	58	0	0	58	0.0	100.0	0.0
Murray Fans	1044	Aquatic Herbland/Floodway Pond Herbland Mosaic	18	Wetlands	Depleted	0	1	0	1	0	0	1	0	0	1	0.0	100.0	0.0
Murray Fans	1045	Aquatic Herbland/Riverine Swamp Forest Mosaic	18	Wetlands	Depleted	0	1	0	1	0	0	1	0	0	1	0.0	100.0	0.0
Murray Fans	1046	Mosaic of Aquatic Herbland/Sedgy Riverine Forest-Riverine Swamp Forest Complex	18	Wetlands	Depleted	0	0	0	0	0	0	0	0	0	0	0.0	100.0	0.0
Murray Fans	1047	Aquatic Herbland/Tall Marsh Mosaic	18	Wetlands	Depleted	0	68	0	68	0	0	68	0	0	68	0.0	100.0	0.0
Murray Fans	1048	Mosaic of Aquatic Herbland/Floodway Pond Herbland-Riverine Swamp Forest Complex	18	Wetlands	Depleted	0	2	0	2	0	0	2	0	0	2	0.0	100.0	0.0
Murray Fans	1049	Floodplain Grassy Wetland/Floodway Pond Herbland Mosaic	18	Wetlands	Endangered	0	6	0	6	0	0	6	0	0	6	0.0	100.0	0.0
Murray Fans	1050	Mosaic of Floodplain Grassy Wetland/Grassy Riverine Forest-Riverine Swamp Forest Complex	18	Wetlands	Endangered	0	9	0	9	0	0	9	0	14	22	0.0	38.5	0.0
Murray Fans	1051	Floodplain Grassy Wetland/Riverine Swamp Forest Mosaic	18	Wetlands	Endangered	0	104	0	104	0	0	104	0	0	104	0.0	100.0	0.0
Murray Fans	1052	Floodplain Grassy Wetland/Riverine Swampy Woodland Mosaic	18	Wetlands	Endangered	0	1	0	1	0	0	1	0	0	2	0.0	90.1	0.0
Murray Fans	1053	Mosaic of Floodplain Grassy Wetland/Sedgy Riverine Forest-Riverine Swamp Forest Complex	18	Wetlands	Endangered	0	2	0	2	0	0	2	0	0	2	0.0	100.0	0.0
Murray Fans	1054	Floodplain Grassy Wetland/Spike-sedge Wetland Mosaic	18	Wetlands	Endangered	0	22	0	22	0	0	22	0	0	22	0.0	100.0	0.0
Murray Fans	1055	Floodplain Grassy Wetland/Tall Marsh Mosaic	18	Wetlands	Endangered	0	21	0	21	0	0	21	0	0	21	0.0	100.0	0.0
Murray Fans	1056	Mosaic of Floodplain Grassy Wetland/Floodway Pond Herbland-Riverine	18	Wetlands	Endangered	0	1	0	1	0	0	1	0	0	1	0.0	100.0	0.0



Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
		Swamp Forest Complex																
Murray Fans	1057	Mosaic of Floodway Pond Herbland/Grassy Riverine Forest-Riverine Swamp Forest Complex	18	Wetlands	Depleted	0	368	0	368	0	0	368	0	0	368	0.0	100.0	0.0
Murray Fans	1058	Floodway Pond Herbland/Riverine Swamp Forest Mosaic	18	Wetlands	Depleted	0	1	0	1	1	0	1	0	61	62	0.0	1.0	0.0
Murray Fans	1059	Mosaic of Floodway Pond Herbland/Sedgy Riverine Forest-Riverine Swamp Forest Complex	18	Wetlands	Depleted	0	8	0	8	0	0	8	0	0	8	0.0	100.0	0.0
Murray Fans	1060	Floodway Pond Herbland/Tall Marsh Mosaic	18	Wetlands	Depleted	0	7	0	7	0	0	7	0	0	7	0.0	100.0	0.0
Murray Fans	1061	Mosaic of Grassy Riverine Forest-Riverine Swamp Forest Complex/Riverine Swamp Forest	14	Riverine Grassy Woodlands or Forests	Depleted	0	184	0	184	0	0	184	0	7	191	0.0	96.4	0.0
Murray Fans	1062	Grassy Riverine Forest/Riverine Swampy Woodland Mosaic	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	1	0	1	0	0	1	0	0	1	0.0	100.0	0.0
Murray Fans	1063	Grassy Riverine Forest/Sedgy Riverine Forest Mosaic	14	Riverine Grassy Woodlands or Forests	Depleted	0	268	0	268	0	0	268	0	0	268	0.0	100.0	0.0
Murray Fans	1065	Grassy Riverine Forest/Tall Marsh Mosaic	14	Riverine Grassy Woodlands or Forests	Depleted	0	2	0	2	0	0	2	0	0	2	0.0	100.0	0.0
Murray Fans	1067	Riverine Swamp Forest/Riverine Swampy Woodland Mosaic	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	31	0	31	20	0	31	0	3	54	0.0	56.9	0.0
Murray Fans	1068	Riverine Swamp Forest/Sedgy Riverine Forest Mosaic	14	Riverine Grassy Woodlands or Forests	Depleted	0	159	27	186	19	0	159	0	208	413	0.0	45.0	0.0
Murray Fans	1069	Riverine Swamp Forest/Sedgy Riverine Forest-Riverine Swamp Forest Complex	14	Riverine Grassy Woodlands or Forests	Depleted	0	1239	29	1268	13	0	1239	0	49	1330	0.0	95.4	0.0
Murray Fans	1070	Riverine Swamp Forest/Spike-sedge Wetland Mosaic	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	6	0	6	0	0	6	0	0	6	0.0	100.0	0.0
Murray Fans	1071	Riverine Swamp Forest/Tall Marsh Mosaic	14	Riverine Grassy Woodlands or Forests	Depleted	0	574	0	574	0	0	574	0	1	574	0.0	99.9	0.0
Murray Fans	1072	Mosaic of Riverine Swamp Forest/Floodway Pond Herbland-Riverine Swamp Forest Complex	14	Riverine Grassy Woodlands or Forests	Depleted	0	898	0	898	0	0	898	0	1	899	0.0	99.9	0.0
Murray Fans	1073	Riverine Swampy Woodland/Sedgy Riverine Forest Mosaic	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	21	180	201	113	0	21	0	30	344	0.0	58.5	0.0
Murray Fans	1074	Mosaic of Riverine Swampy Woodland/Sedgy Riverine Forest-Riverine Swamp Forest Complex	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	33	0	33	0	0	33	0	0	33	0.0	100.0	0.0
Murray Fans	1075	Mosaic of Sedgy Riverine Forest/Sedgy Riverine Forest-Riverine Swamp Forest Complex	14	Riverine Grassy Woodlands or Forests	Depleted	0	271	0	271	0	0	271	0	84	355	0.0	76.2	0.0
Murray Fans	1076	Sedgy Riverine Forest/Spike-sedge Wetland Mosaic	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	0	0	0	0	0	0	0	0	0	0.0	100.0	0.0
Murray Fans	1077	Sedgy Riverine Forest/Tall Marsh Mosaic	14	Riverine Grassy Woodlands or Forests	Depleted	0	2	0	2	0	0	2	0	0	2	0.0	100.0	0.0
Murray Fans	1078	Mosaic of Sedgy Riverine Forest/Floodway Pond Herbland-Riverine Swamp Forest Complex	14	Riverine Grassy Woodlands or Forests	Depleted	0	30	0	30	0	0	30	0	0	30	0.0	99.4	0.0
Murray Fans	1079	Mosaic of Sedgy Riverine Forest-Riverine Swamp Forest Complex/Tall Marsh	14	Riverine Grassy Woodlands or Forests	Depleted	0	7	0	7	0	0	7	0	0	7	0.0	100.0	0.0
Murray Fans	1080	Mosaic of Sedgy Riverine Forest-Riverine Swamp Forest Complex/Floodway Pond Herbland-Riverine Swamp Forest Complex	14	Riverine Grassy Woodlands or Forests	Depleted	0	77	0	77	0	0	77	0	1	78	0.0	99.1	0.0
Murray Fans	1081	Spike-sedge Wetland/Tall Marsh Mosaic	18	Wetlands	Vulnerable	0	9	0	9	0	0	9	0	0	9	0.0	100.0	0.0
Murray Fans	1082	Tall Marsh/Riverine Swamp Forest Mosaic	18	Wetlands	Depleted	0	3	0	3	0	0	3	0	0	3	0.0	100.0	0.0
Murray Fans	1083	Mosaic of Tall Marsh/Floodway Pond Herbland-Riverine Swamp Forest Complex	18	Wetlands	Depleted	0	83	0	83	0	0	83	0	0	83	0.0	100.0	0.0
Murray Fans	1084	Tall Marsh/Non-Vegetation Mosaic	18	Wetlands	Depleted	0	16	0	16	0	0	16	0	0	16	0.0	100.0	0.0
Murray Fans	1088	Riverine Grassland	12	Plains Grasslands and Chenopod Shrublands	Endangered	0	68	0	68	0	0	68	0	1	69	0.0	98.6	0.0
Murray Fans	1090	Tall Marsh/Open Water Mosaic	18	Wetlands	Least Concern	0	58	0	58	0	0	58	0	4	62	0.0	93.8	0.0
Murray Fans	1099	Riverine Swampy Woodland/Plains Grassy Wetland Mosaic	14	Riverine Grassy Woodlands or Forests	Endangered	0	1	0	1	0	0	1	0	71	72	0.0	1.2	0.0
Total						511,892	54,319	8,702	63,021	9,748	0	54,319	207	100,552	173,528	33.9%	31.3%	10.6%



13. Gippsland Plain

Bioregion size: 713 608 ha
 Native vegetation cover: 321 738 ha (27%)
 Conservation reserve cover (excludes State Forests): 96 460 ha (30%)

Conservation Priorities

Conservation priority in the Bioregion should include increasing the percentage of EVC groups Riparian Scrubs or Swampy Scrubs and Woodlands, Lowland Forests and Plains Woodlands or Forests. These EVC groups have been heavily cleared in the region and areas of these groups remaining on non-conservation public land include several Endangered EVCs.

The Gippsland Plain Bioregion (GipP) covers approximately 713 608 ha, from Melbourne to Lakes Entrance, stretching to the south coast of Victoria, including French and Phillip Islands. The Strezlecki Ranges Bioregion is located centrally, effectively dividing the Gippsland Plain into two (2) areas. The Bioregion is typified by flat low lying coastal and alluvial plains, generally supporting Lowland Forest. Dunes in the region are dominated Heathy Woodland and Damp Sands Herb-rich Woodland, while the floodplains and swamps support Swamp Scrub, Plains Grassy Woodland, Plains Grassy Forest, Plains Grassland and Gilgai Wetland. A number of major river systems drain the region including the Yarra, Bass, La Trobe, Thompson, Macalister and Avon Rivers. The Gippsland Plain is Sub-region SCP1 of the South East Coastal Plain Interim Biogeographic Regionalisation of Australia (IBRA) Bioregion. The majority of the Bioregion falls into either the Port Phillip and Westernport Catchment Management Authority (CMA) area or the West Gippsland CMA area. A small eastern portion of the Bioregion falls in the East Gippsland CMA area. Under the proposed alignment of new Natural Resource & Catchment Authorities (NCRA) to be implemented in 2011, the Port Phillip and Westernport CMA will form part of Melbourne Water & Catchment Authority, while West Gippsland CMA and East Gippsland CMA will become part of the Gippsland NCRA. The coastline is largely comprised of public land, including Mornington Peninsula National Park, however, the majority of the Bioregion is privately owned. Ramsar wetlands in the Bioregion include Westernport Bay, Corner Inlet, Edithvale-Seaford Wetlands and the Gippsland Lakes.

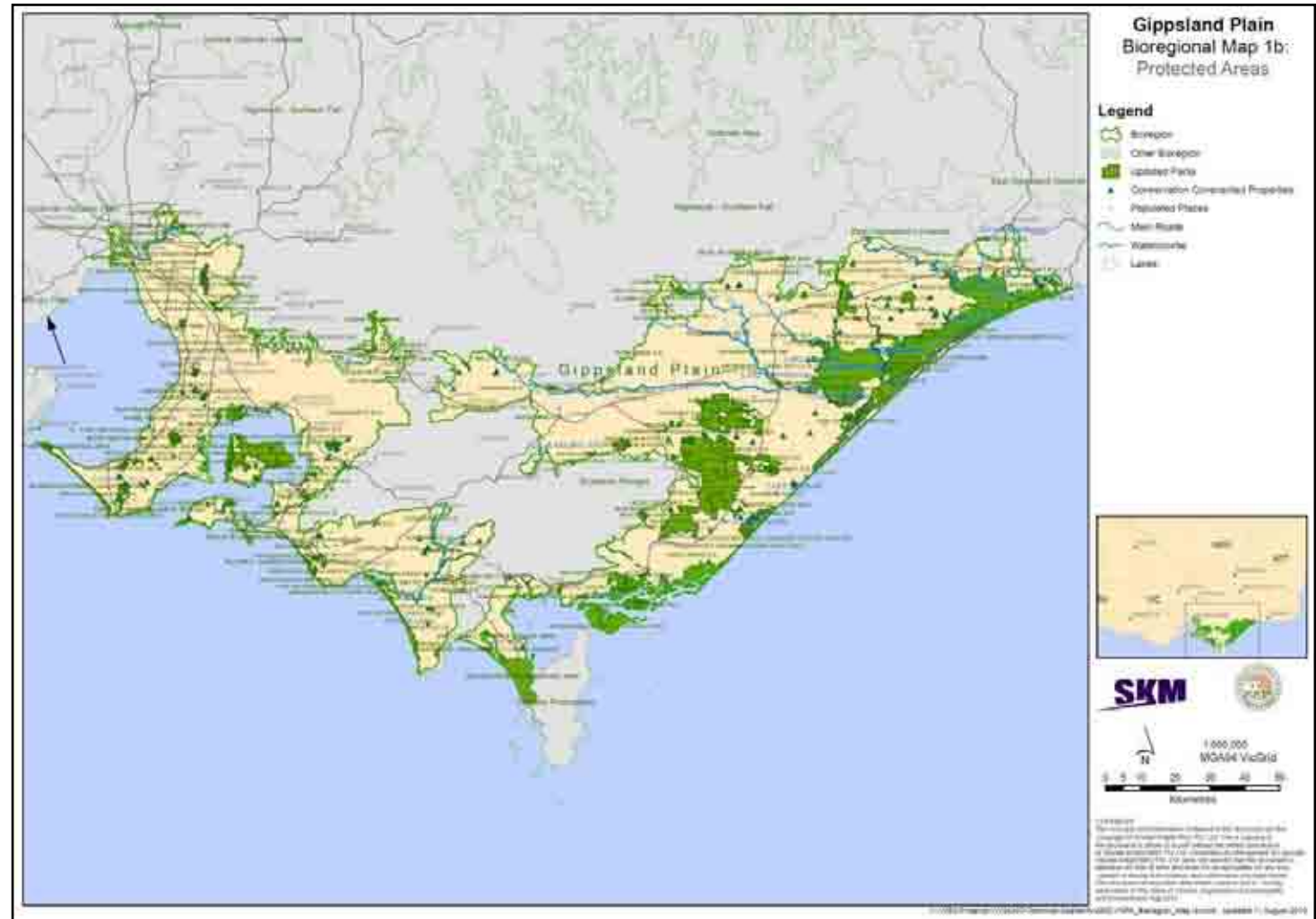


Figure 13-2 Protected Areas – Gippsland Plain

The native vegetation within the Gippsland Plain is varied, supporting 77 Ecological Vegetation Classes (EVCs) and 57 EVC complexes and mosaics. The Bioregion has been largely cleared for urban and agricultural development, with approximately 27% of the pre-1750 EVCs remaining. About 30% of the remaining vegetation is protected on conservation land. A number of Commonwealth Environment Protection and Biodiversity Conservation (EPBC) Act listed communities and species reside on the Gippsland Plain, including the Critically Endangered Grassy Eucalypt Woodland of the Victorian Volcanic Plain, Orange-bellied Parrot (*Neophema chrysogaster*), also Critically Endangered, Southern Right Whale (*Eubalaena australis*), Endangered, Leatherback Turtle (*Dermochelys coriacea*), also Endangered, Growling Grass Frog (*Litoria raniformis*), Vulnerable, and Australian Grayling (*Prototroctes maraena*), also Vulnerable. The Bioregion also supports a range of State Flora and Fauna Guarantee (FFG) Act listed species, including Baw Baw Frog (*Philoria frosti*) and the Giant Gippsland Earthworm (*Megascolides australis*), both also endemic to the region, Hooded Plover (*Thinornis rubricollis*), Little Tern (*Sterna albifrons*), Fairy Tern (*Sterna nereis nereis*), Regent Honeyeater (*Xanthomyza phrygia*), New Holland Mouse (*Pseudomys novaehollandiae*) and Giant Burrowing Frog (*Heleioporus australiacus*). Land use across the Bioregion is highly varied, with large urban settlements as well as agricultural uses, electricity production (La Trobe Valley), hardwood and softwood production and conservation. Ongoing challenges in the Bioregion include the continued clearing of native vegetation on private land, leading to increasing fragmentation of habitat, and changed fire regimes which have led to loss of native grass and herb flora. Introduced predators, particularly foxes, are a serious threat to native fauna. The Bioregion's large coastal area also makes it susceptible to climate change effects, particularly rising sea levels and rising water temperature and acidity.

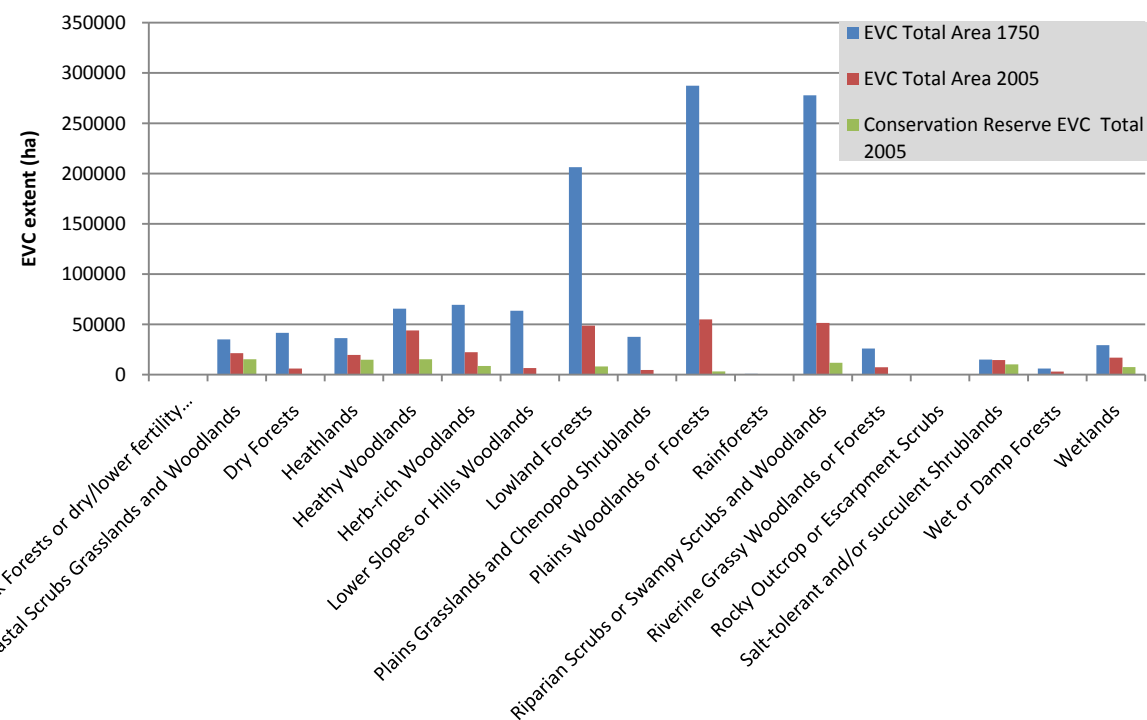
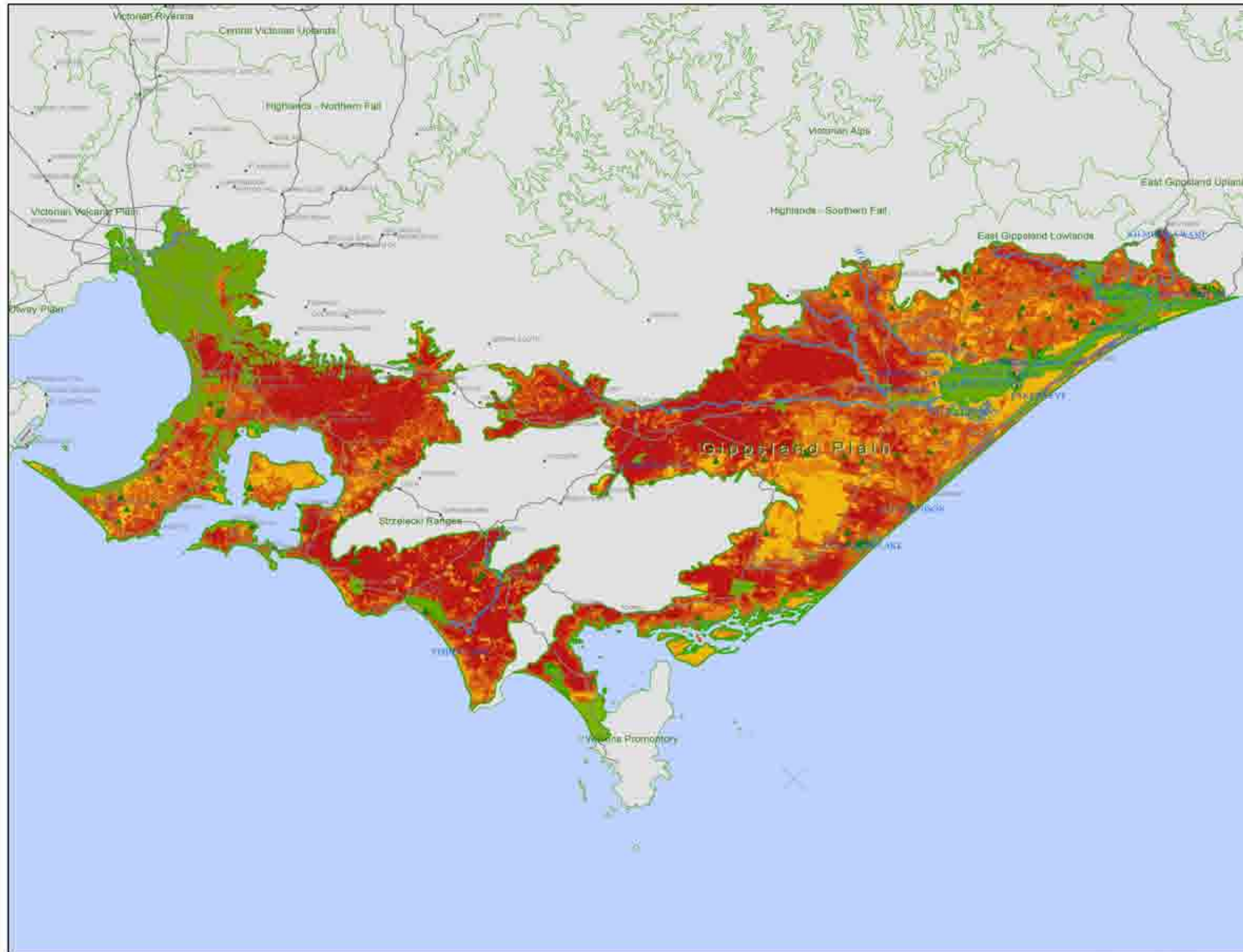


Figure 13-1 EVC Group Breakdown



**Gippsland Plain
Bioregional Map 1a:
Landscape Priorities**

Legend

- Bioregion
 - Other Bioregion
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- Landscape Importance**
- High : 20
 - Low : 1



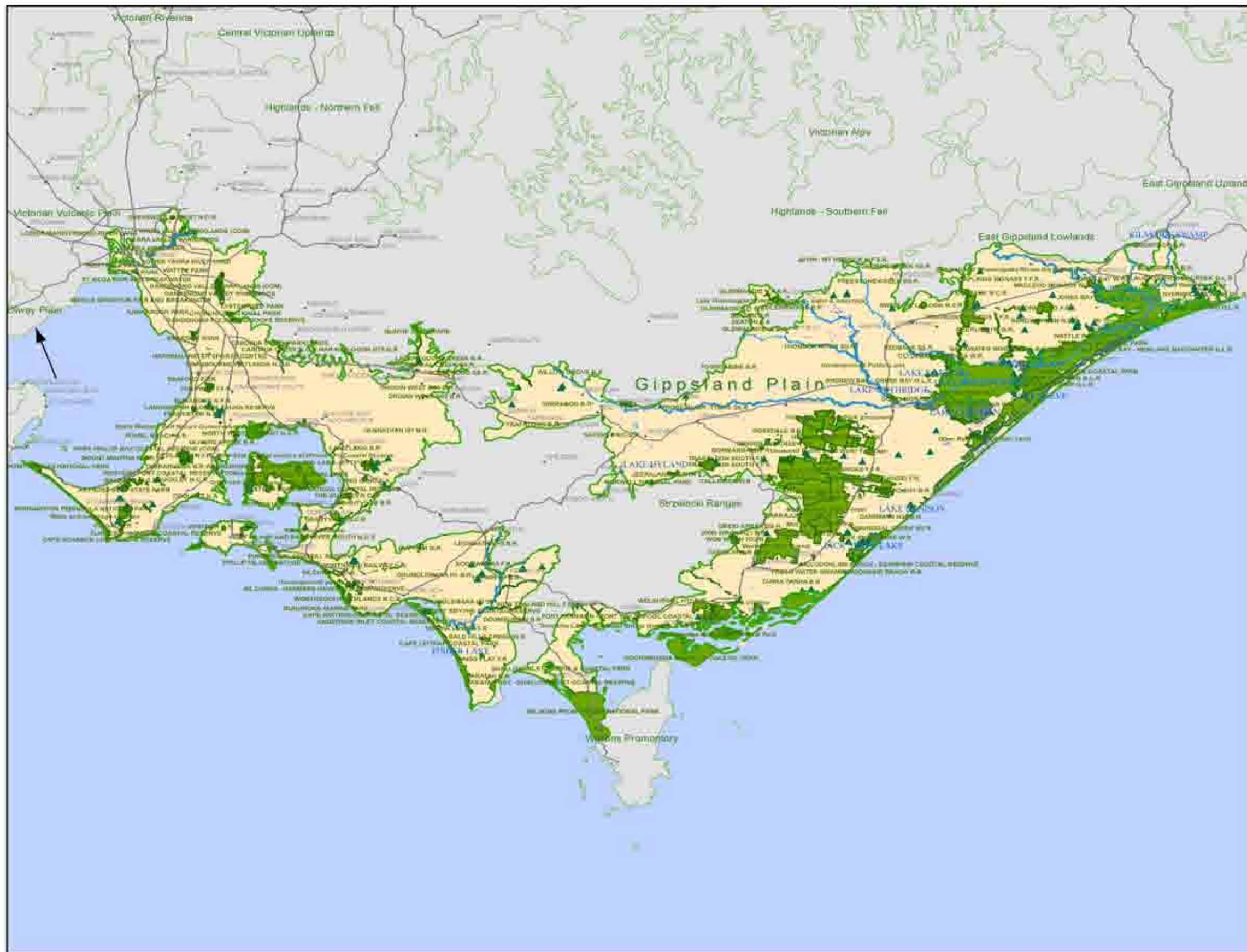
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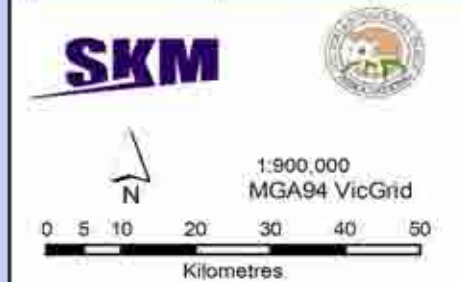




**Gippsland Plain
Bioregional Map 1b:
Protected Areas**

Legend

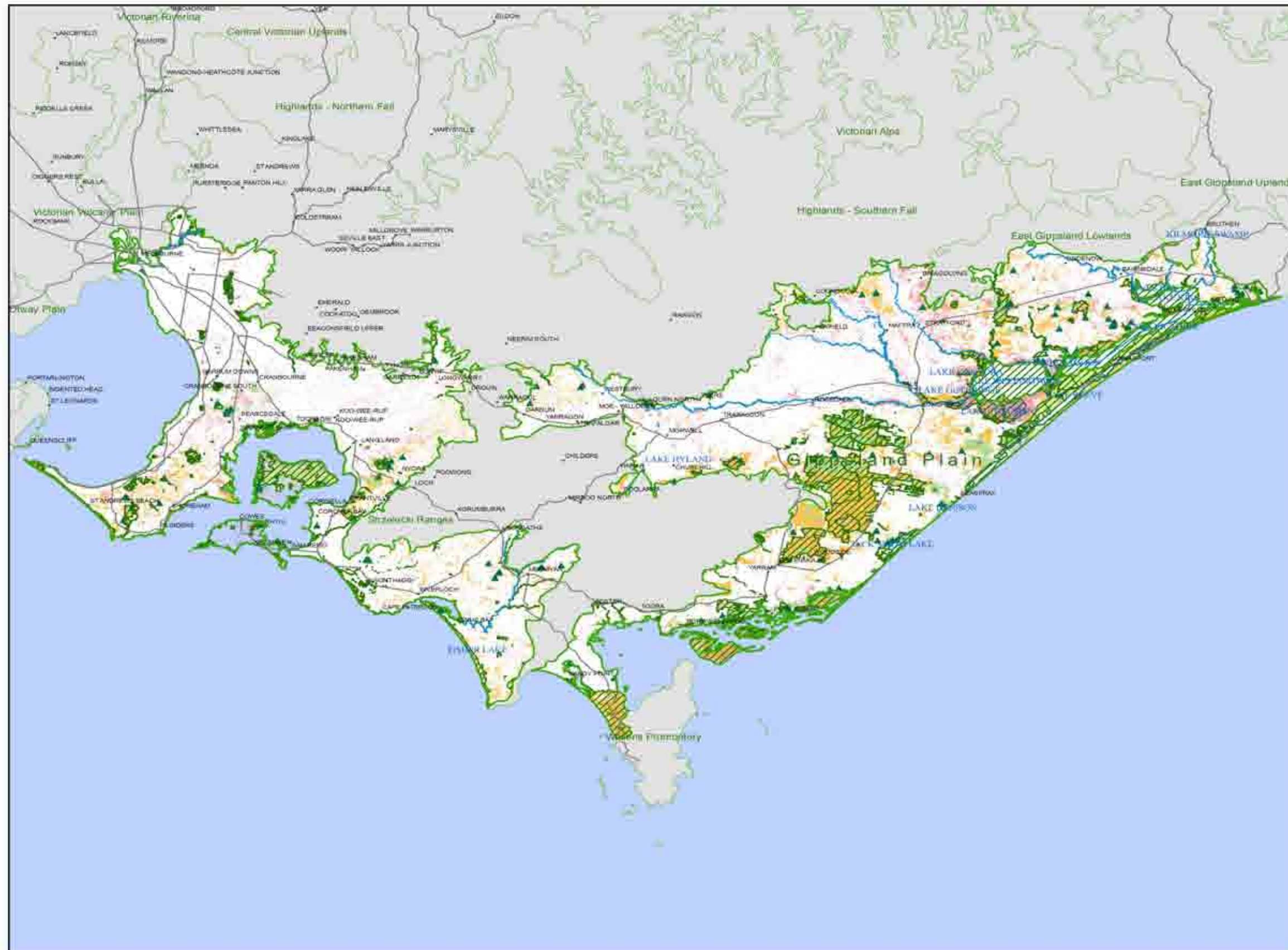
- Bioregion
- Other Bioregion
- Updated Parks
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes



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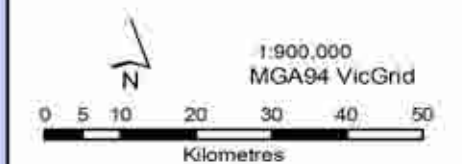
**Gippsland Plain
Bioregional Map 2a:
Vegetation Conservation
Significance**

Legend

- Bioregion
- Other Bioregion
- Updated Parks
- Conservation Covered Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes

EVC Bioregional Conservation Status

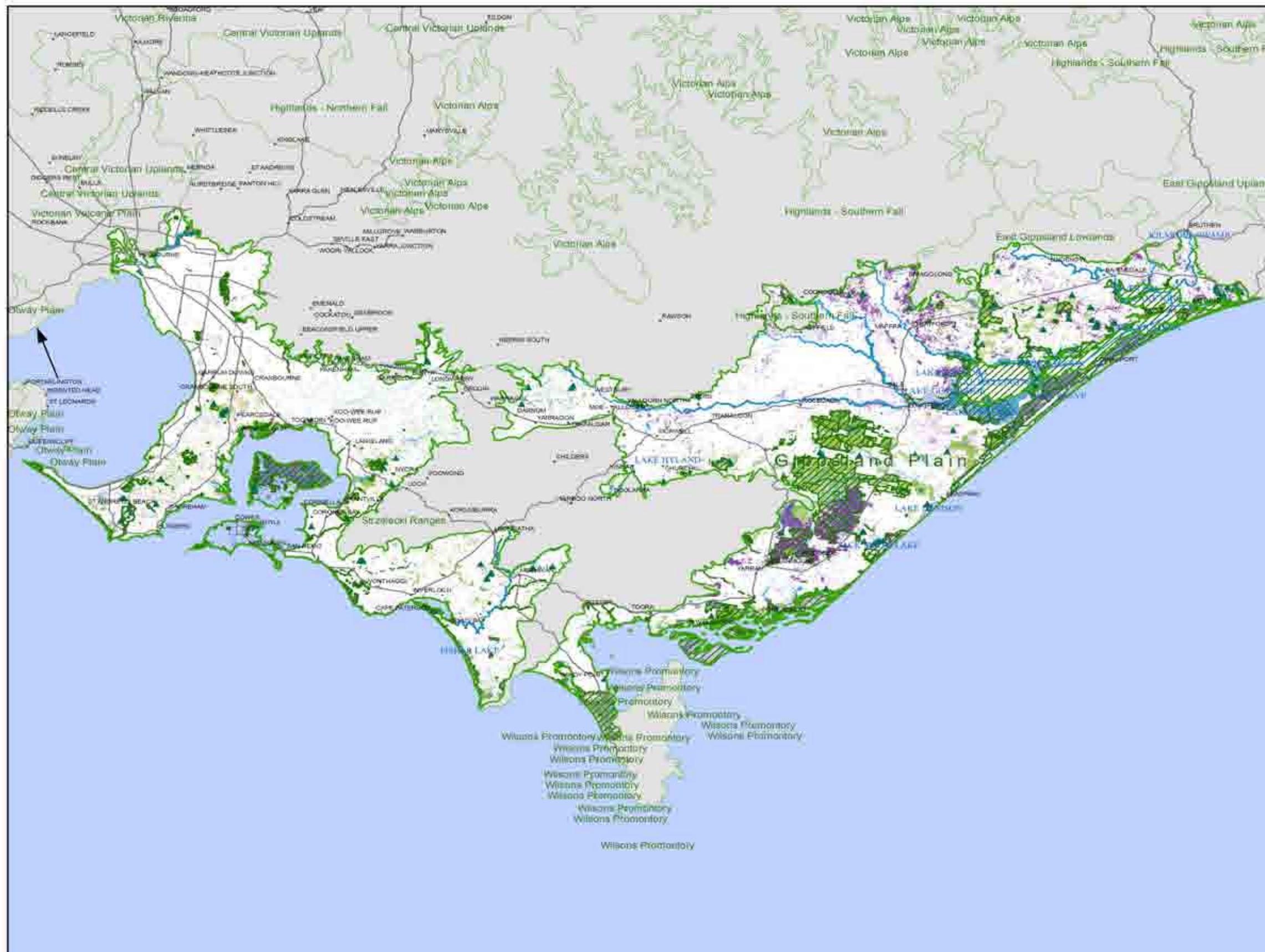
- Endangered
- Vulnerable
- Depleted
- Rare
- Least Concern



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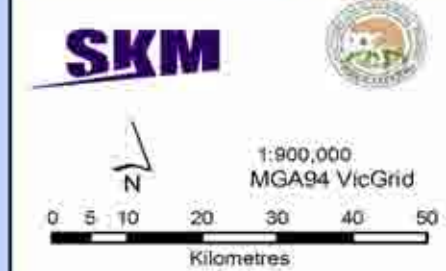
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**Gippsland Plain
Bioregional Map 2b:
EVC Groups**

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lake
- EVC Group**
- Coastal Scrubs Grasslands and Woodlands
 - Healthy Woodlands
 - Lowland Forests
 - Box Ironbark Forests or dry/low fertility Woodlands
 - Lower Slopes or Hills Woodlands
 - Dry Forests
 - Wet or Damp Forests
 - Riparian Scrubs or Swampy Scrubs and Woodlands
 - Rainforests
 - Montane Grasslands, Shrublands or Woodlands
 - Sub-alpine Grasslands, Shrublands or Woodlands
 - Plains Grasslands and Chenopod Shrublands
 - Plains Woodlands or Forests
 - Riverine Grassy Woodlands or Forests
 - Herb-rich Woodlands
 - Heathlands
 - Mallee
 - Wetlands
 - Salt-tolerant and/or succulent Shrublands
 - Rocky Outcrop or Escarpment Scrubs
 - No native vegetation recorded



SKM

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Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Gipps Plain	1	Coastal Dune Scrub/Coastal Dune Grassland Mosaic	1	Coastal Scrubs Grasslands and Woodlands	Depleted	10525	5887	0	5887	113	176	6063	0	2075	8251	78.4	71.3	55.9
Gipps Plain	2	Coast Banksia Woodland	1	Coastal Scrubs Grasslands and Woodlands	Vulnerable	5763	937	0	937	249	25	962	0	970	2180	37.8	43.0	16.3
Gipps Plain	3	Damp Sands Herb-rich Woodland	15	Herb-rich Woodlands	Vulnerable	53747	7977	7	7984	1455	9	7986	0	10913	20361	37.9	39.2	14.9
Gipps Plain	6	Sand Heathland	16	Heathlands	Rare	14607	11287	0	11287	395	0	11287	0	1445	13127	89.9	86.0	77.3
Gipps Plain	7	Clay Heathland	16	Heathlands	Depleted	646	321	193	514	53	0	321	0	79	646	99.9	79.6	79.5
Gipps Plain	8	Wet Heathland	16	Heathlands	Depleted	11101	2488	410	2898	18	0	2488	0	1345	4261	38.4	68.0	26.1
Gipps Plain	9	Coastal Saltmarsh	19	Salt-tolerant and/or succulent Shrublands	Least Concern	10518	6364	0	6364	160	37	6401	0	2734	9294	88.4	68.5	60.5
Gipps Plain	10	Estuarine Wetland	18	Wetlands	Least Concern	7860	3085	0	3085	198	0	3085	0	2473	5756	73.2	53.6	39.3
Gipps Plain	11	Coastal Lagoon Wetland	18	Wetlands	Vulnerable	4	3	0	3	0	0	3	0	1	4	91.4	74.1	67.7
Gipps Plain	12	Wet Swale Herbland	18	Wetlands	Vulnerable	100	100	0	100	0	0	100	0	0	100	100.0	100.0	100.0
Gipps Plain	14	Banksia Woodland	3	Lowland Forests	Least Concern	18	0	0	0	0	18	18	0	0	18	100.0	0.0	0.0
Gipps Plain	15	Limestone Box Forest	3	Lowland Forests	Vulnerable	1167	80	4	84	92	0	80	0	372	548	47.0	15.3	7.2
Gipps Plain	16	Lowland Forest	3	Lowland Forests	Vulnerable	169348	6476	5373	11849	4211	0	6476	0	20493	36553	21.6	32.4	7.0
Gipps Plain	17	Riparian Scrub/Swampy Riparian Woodland Complex	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	2814	1	0	1	1	0	1	0	626	628	22.3	0.1	0.0
Gipps Plain	18	Riparian Forest	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	2647	75	16	91	766	0	75	0	447	1304	49.2	7.0	3.4
Gipps Plain	19	Riparian Shrubland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	2542	23	0	23	224	0	23	0	659	906	35.6	2.6	0.9
Gipps Plain	21	Shrubby Dry Forest	6	Dry Forests	Least Concern	8	0	0	0	0	0	0	0	5	5	61.5	0.0	0.0
Gipps Plain	22	Grassy Dry Forest	6	Dry Forests	Least Concern	438	6	0	6	3	0	6	0	20	29	6.6	19.6	1.3
Gipps Plain	23	Herb-rich Foothill Forest	6	Dry Forests	Vulnerable	9586	266	37	304	78	0	266	0	2780	3162	33.0	9.6	3.2
Gipps Plain	29	Damp Forest	7	Wet or Damp Forests	Endangered	5685	508	281	789	165	0	508	0	1845	2798	49.2	28.2	13.9
Gipps Plain	30	Wet Forest	7	Wet or Damp Forests	Depleted	0	0	0	0	0	0	0	0	76	76	0.0	0.0	0.0
Gipps Plain	30	Wet Forest	7	Wet or Damp Forests	Depleted	89	0	1	1	10	0	0	0	64	76	84.8	1.9	1.6
Gipps Plain	32	Warm Temperate Rainforest	9	Rainforests	Endangered	544	33	19	52	17	0	33	0	242	311	57.2	16.7	9.6
Gipps Plain	34	Dry Rainforest	9	Rainforests	Endangered	19	10	0	10	1	0	10	0	4	15	81.2	65.9	53.5
Gipps Plain	45	Shrubby Foothill Forest	6	Dry Forests	Endangered	2392	3	0	3	41	0	3	0	278	323	13.5	1.0	0.1
Gipps Plain	47	Valley Grassy Forest	6	Dry Forests	Vulnerable	3874	4	0	4	12	0	4	0	488	504	13.0	0.7	0.1
Gipps Plain	48	Heathy Woodland	2	Heathy Woodlands	Least Concern	60541	14803	5264	20067	4069	0	14803	0	13385	37521	62.0	53.5	33.1
Gipps Plain	53	Swamp Scrub	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	163516	8193	108	8301	3350	269	8462	0	15430	27350	16.7	30.3	5.1
Gipps Plain	55	Plains Grassy Woodland	13	Plains Woodlands or Forests	Endangered	151118	1188	3	1191	769	198	1386	0	18356	20514	13.6	5.8	0.8
Gipps Plain	56	Floodplain Riparian Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	20579	126	0	126	2064	0	126	0	4324	6514	31.7	1.9	0.6
Gipps Plain	59	Riparian Thicket	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	3	0	0	0	0	0	0	0	0	0	14.7	0.0	0.0
Gipps Plain	61	Box Ironbark Forest	4	Box Ironbark Forests or dry/lower fertility Woodlands	Vulnerable	243	0	0	0	13	0	0	0	58	71	29.4	0.1	0.0
Gipps Plain	68	Creepline Grassy Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	730	4	0	4	24	0	4	0	20	48	6.6	8.3	0.5
Gipps Plain	73	Rocky Outcrop Shrubland/Rocky Outcrop Herbland Mosaic	20	Rocky Outcrop or Escarpment Scrubs	Rare	3	3	0	3	0	0	3	0	0	3	100.0	95.0	95.0
Gipps Plain	74	Wetland Formation	18	Wetlands	Endangered	1290	465	0	465	0	51	516	0	453	969	75.1	48.0	36.1
Gipps Plain	82	Riverine Escarpment Scrub	20	Rocky Outcrop or Escarpment Scrubs	Endangered	163	6	0	6	1	0	6	0	105	111	68.3	5.0	3.4
Gipps Plain	83	Swampy Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	27310	587	1	588	1208	0	587	0	3485	5280	19.3	11.1	2.2
Gipps Plain	123	Riparian Forest/Warm Temperate Rainforest Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	89	1	0	1	5	0	1	0	9	15	16.5	5.0	0.8
Gipps Plain	125	Plains Grassy Wetland	18	Wetlands	Endangered	5317	11	0	11	23	0	11	0	372	406	7.6	2.8	0.2
Gipps Plain	126	Swampy Riparian Complex	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	20247	16	0	16	70	0	16	0	1120	1206	6.0	1.3	0.1
Gipps Plain	127	Valley Heathy Forest	6	Dry Forests	Endangered	20944	2	0	2	242	0	2	0	1034	1278	6.1	0.2	0.0

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Gipps Plain	128	Grassy Forest	6	Dry Forests	Endangered	2441	14	0	14	8	0	14	0	310	331	13.6	4.2	0.6
Gipps Plain	132	Plains Grassland	12	Plains Grasslands and Chenopod Shrublands	Endangered	37357	350	0	350	86	0	350	0	2145	2580	6.9	13.6	0.9
Gipps Plain	133	Limestone Pomaderris Shrubland	20	Rocky Outcrop or Escarpment Scrubs	Endangered	112	3	0	3	9	0	3	0	22	33	29.6	8.4	2.5
Gipps Plain	135	Gallery Rainforest	9	Rainforests	Endangered	226	8	0	8	12	0	8	0	5	26	11.4	31.9	3.6
Gipps Plain	136	Sedge Wetland	18	Wetlands	Vulnerable	2220	504	77	581	187	0	504	0	716	1484	66.8	39.1	26.2
Gipps Plain	140	Mangrove Shrubland	19	Salt-tolerant and/or succulent Shrublands	Least Concern	3686	3310	0	3310	60	63	3372	0	1218	4650	126.2	71.2	89.8
Gipps Plain	141	Sandy Flood Scrub	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	2448	341	0	341	274	0	341	0	827	1442	58.9	23.6	13.9
Gipps Plain	144	Coast Banksia Woodland/Warm Temperate Rainforest Mosaic	9	Rainforests	Endangered	13	13	0	13	0	0	13	0	0	13	99.0	99.2	98.2
Gipps Plain	151	Plains Grassy Forest	13	Plains Woodlands or Forests	Vulnerable	83414	1814	13866	15680	675	0	1814	0	14066	30421	36.5	51.5	18.8
Gipps Plain	155	Bird Colony Succulent Hermland	1	Coastal Scrubs Grasslands and Woodlands	Rare	133	0	0	0	0	116	116	0	15	131	98.6	0.0	0.0
Gipps Plain	159	Clay Heathland/Wet Heathland/Riparian Scrub Mosaic	16	Heathlands	Depleted	1765	221	0	221	10	0	221	0	404	635	36.0	34.8	12.5
Gipps Plain	160	Coastal Dune Scrub	1	Coastal Scrubs Grasslands and Woodlands	Depleted	229	31	0	31	2	0	31	0	19	52	22.7	59.4	13.5
Gipps Plain	161	Coastal Headland Scrub	1	Coastal Scrubs Grasslands and Woodlands	Depleted	1799	940	0	940	15	159	1099	0	231	1345	74.8	69.9	52.3
Gipps Plain	162	Coastal Headland Scrub/Coastal Tussock Grassland Mosaic	1	Coastal Scrubs Grasslands and Woodlands	Depleted	608	125	0	125	0	18	142	0	116	259	42.5	48.1	20.5
Gipps Plain	163	Coastal Tussock Grassland	1	Coastal Scrubs Grasslands and Woodlands	Vulnerable	1463	905	0	905	3	152	1057	0	150	1211	82.8	74.8	61.9
Gipps Plain	164	Creekline Herb-rich Woodland	15	Herb-rich Woodlands	Endangered	1258	193	682	875	2	0	193	0	36	913	72.6	95.8	69.5
Gipps Plain	169	Dry Valley Forest	6	Dry Forests	Endangered	315	0	0	0	19	0	0	0	66	86	27.2	0.0	0.0
Gipps Plain	172	Floodplain Wetland Aggregate	18	Wetlands	Endangered	0	0	0	0	28	0	0	0	10	38	0.0	0.0	0.0
Gipps Plain	172	Floodplain Wetland Complex	18	Wetlands		49	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Gipps Plain	175	Grassy Woodland	5	Lower Slopes or Hills Woodlands	Endangered	59208	353	2	354	470	0	353	0	5407	6232	10.5	5.7	0.6
Gipps Plain	191	Riparian Scrub	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	11674	1926	2692	4618	1215	0	1926	0	1975	7808	66.9	59.1	39.6
Gipps Plain	195	Seasonally Inundated Shrubby Woodland	5	Lower Slopes or Hills Woodlands	Endangered	131	1	0	1	24	0	1	0	13	37	28.6	1.8	0.5
Gipps Plain	259	Plains Grassy Woodland/Gilgai Wetland Mosaic	13	Plains Woodlands or Forests	Endangered	31031	8	118	126	28	0	8	0	3825	3979	12.8	3.2	0.4
Gipps Plain	300	Reed Swamp	18	Wetlands	Endangered	67	0	0	0	4	0	0	0	1	5	7.1	0.0	0.0
Gipps Plain	302	Coastal Saltmarsh/Mangrove Shrubland Mosaic	19	Salt-tolerant and/or succulent Shrublands	Vulnerable	603	252	0	252	50	5	258	0	170	477	79.1	52.9	41.8
Gipps Plain	307	Sand Heathland/Wet Heathland Mosaic	16	Heathlands	Depleted	1009	397	0	397	0	0	397	0	96	493	48.8	80.5	39.3
Gipps Plain	309	Calcareous Swale Grassland	1	Coastal Scrubs Grasslands and Woodlands	Vulnerable	559	557	0	557	0	0	557	0	0	557	99.6	100.0	99.6
Gipps Plain	311	Berm Grassy Shrubland	1	Coastal Scrubs Grasslands and Woodlands	Endangered	140	87	0	87	1	0	87	0	21	109	77.6	79.9	62.0
Gipps Plain	315	Shrubby Foothill Forest/Damp Forest Complex	6	Dry Forests	Endangered	9	0	0	0	0	0	0	0	2	3	31.9	0.0	0.0
Gipps Plain	316	Shrubby Damp Forest	7	Wet or Damp Forests	Least Concern	244	2	3	5	0	0	2	0	110	115	47.3	4.0	1.9
Gipps Plain	334	Billabong Wetland Aggregate	18	Wetlands	Endangered	0	21	0	21	17	0	21	0	355	393	0.0	5.3	0.0
Gipps Plain	334	Billabong Wetland	18	Wetlands		797	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Gipps Plain	408	Valley Grassy Forest/Herb-rich Foothill Forest Complex	6	Dry Forests	Vulnerable	679	0	0	0	0	0	0	25	0	25	3.7	0.0	0.0
Gipps Plain	418	Damp Sands Herb-rich Woodland/Heathy Woodland Complex	15	Herb-rich Woodlands	Vulnerable	344	0	0	0	0	0	0	0	3	3	1.0	0.0	0.0
Gipps Plain	636	Brackish Lake Aggregate	19	Salt-tolerant and/or succulent Shrublands	Rare	0	0	0	0	13	0	0	0	2	15	0.0	0.0	0.0
Gipps Plain	636	Brackish Lake Mosaic	19	Salt-tolerant and/or succulent Shrublands		98	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Gipps Plain	637	Swamp Scrub/Damp Sands Herb-rich Woodland/Wet Heathland Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	4	0	0	0	0	0	0	4	0	4	92.1	0.0	0.0
Gipps Plain	638	Swamp Scrub/Wet Heathland Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	1404	47	0	47	41	0	47	0	152	239	17.0	19.5	3.3
Gipps Plain	639	Swamp Scrub/Plains Grassy Forest Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	4158	0	0	0	14	0	0	0	125	139	3.4	0.0	0.0
Gipps Plain	641	Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	89	0	0	0	31	0	0	0	12	43	48.6	0.0	0.0
Gipps Plain	651	Plains Swampy Woodland	13	Plains Woodlands or Forests	Endangered	21	0	0	0	0	0	0	2	0	2	8.0	0.0	0.0

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Gipps Plain	656	Brackish Wetland	18	Wetlands	Endangered	304	0	0	0	49	0	0	0	2	51	16.7	0.0	0.0
Gipps Plain	681	Deep Freshwater Marsh	18	Wetlands	Vulnerable	8180	2812	0	2812	1125	0	2812	0	2480	6417	78.4	43.8	34.4
Gipps Plain	686	Wet Heathland/Damp Heathland Mosaic	16	Heathlands	Depleted	7094	98	66	164	1	0	98	0	248	413	5.8	39.7	2.3
Gipps Plain	687	Swamp Scrub/Plains Grassland Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	22245	28	254	282	38	0	28	0	1399	1718	7.7	16.4	1.3
Gipps Plain	688	Swampy Riparian Woodland/Swamp Scrub Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	4086	14	14	27	46	0	14	0	656	729	17.8	3.7	0.7
Gipps Plain	690	Floodplain Riparian Woodland/Billabong Wetland Mosaic	14	Riverine Grassy Woodlands or Forests	Endangered	3059	0	0	0	2	0	0	0	147	149	4.9	0.0	0.0
Gipps Plain	691	Aquatic Herbland/Plains Sedgy Wetland Mosaic	18	Wetlands	Vulnerable	1154	191	0	191	8	0	191	0	565	764	66.2	25.0	16.6
Gipps Plain	693	Plains Woodland/Plains Grassland Mosaic	13	Plains Woodlands or Forests		20345	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Gipps Plain	695	Dry Valley Forest/Swamp Scrub/Warm Temperate Rainforest Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	4460	124	0	124	96	0	124	0	325	546	12.2	22.8	2.8
Gipps Plain	698	Lowland Forest/Heathy Woodland Mosaic	3	Lowland Forests	Vulnerable	9649	46	0	46	10	0	46	0	822	878	9.1	5.3	0.5
Gipps Plain	699	Valley Grassy Forest/Swamp Scrub Mosaic	6	Dry Forests	Endangered	222	1	0	1	2	0	1	0	15	17	7.7	5.6	0.4
Gipps Plain	700	Swamp Scrub/Plains Sedgy Wetland Mosaic	18	Wetlands	Endangered	0	0	0	0	0	0	0	3	0	3	0.0	0.0	0.0
Gipps Plain	700	Swamp Scrub/Plains Sedgy Wetland Mosaic	18	Wetlands		26	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Gipps Plain	701	Swamp Scrub/Warm Temperate Rainforest/Billabong Wetland Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	1816	1	0	1	9	0	1	0	39	49	2.7	1.6	0.0
Gipps Plain	707	Sedgy Swamp Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	192	0	0	0	0	0	0	1	0	1	0.5	0.0	0.0
Gipps Plain	710	Damp Heathland	16	Heathlands	Rare	47	26	0	26	0	0	26	0	16	42	89.0	61.3	54.6
Gipps Plain	719	Grassy Woodland/Damp Sands Herb-rich Woodland Mosaic	15	Herb-rich Woodlands	Endangered	2678	0	0	0	0	0	0	16	0	16	0.6	0.0	0.0
Gipps Plain	793	Damp Heathy Woodland	2	Heathy Woodlands	Vulnerable	3633	339	0	339	39	0	339	0	581	959	26.4	35.4	9.3
Gipps Plain	795	Lowland Forest/Damp Sands Herb-rich Woodland Mosaic	3	Lowland Forests	Vulnerable	24926	1428	0	1428	118	0	1428	0	8736	10283	41.3	13.9	5.7
Gipps Plain	858	Coastal Alkaline Scrub	1	Coastal Scrubs Grasslands and Woodlands	Vulnerable	11320	4434	0	4434	110	0	4434	0	1497	6040	53.4	73.4	39.2
Gipps Plain	863	Floodplain Reedbed	14	Riverine Grassy Woodlands or Forests	Endangered	1618	40	0	40	10	0	40	0	499	549	33.9	7.3	2.5
Gipps Plain	875	Blocked Coastal Stream Swamp	18	Wetlands	Rare	29	29	0	29	0	0	29	0	0	29	100.0	100.0	100.0
Gipps Plain	877	Lowland Herb-rich Forest	3	Lowland Forests	Depleted	1209	25	9	34	13	0	25	0	443	491	40.6	7.0	2.9
Gipps Plain	878	Damp Sands Herb-rich Woodland/Swamp Scrub Complex	15	Herb-rich Woodlands	Vulnerable	5110	324	0	324	3	0	324	0	301	627	12.3	51.6	6.3
Gipps Plain	879	Coastal Dune Grassland	1	Coastal Scrubs Grasslands and Woodlands	Depleted	37	35	0	35	0	0	35	0	3	38	102.1	92.4	94.3
Gipps Plain	881	Damp Sands Herb-rich Woodland/Heathy Woodland Mosaic	15	Herb-rich Woodlands	Vulnerable	1743	0	0	0	24	0	0	0	75	99	5.7	0.0	0.0
Gipps Plain	892	Heathy Woodland/Sand Heathland Mosaic	2	Heathy Woodlands	Least Concern	1318	0	0	0	0	0	0	8	0	8	0.6	0.0	0.0
Gipps Plain	895	Escarpment Shrubland	13	Plains Woodlands or Forests	Endangered	40	0	0	0	13	0	0	0	11	24	61.0	0.0	0.0
Gipps Plain	897	Plains Grassland/Plains Grassy Woodland Mosaic	12	Plains Grasslands and Chenopod Shrublands	Endangered	0	0	0	0	0	0	0	0	1034	1034	0.0	0.0	0.0
Gipps Plain	897	Plains Grassland/Plains Grassy Woodland Mosaic	12	Plains Grasslands and Chenopod Shrublands	Endangered	157	0	0	0	9	0	0	0	1025	1034	657.9	0.0	0.0
Gipps Plain	900	Coastal Saltmarsh/Coastal Dune Grassland/Coastal Dune Scrub/Coastal Headland Scrub Mosaic	1	Coastal Scrubs Grasslands and Woodlands		101	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Gipps Plain	900	Coastal Saltmarsh/Coastal Dune Grassland/Coastal Dune Scrub/Coastal Headland Scrub Mosaic	1	Coastal Scrubs Grasslands and Woodlands	Vulnerable	101	33	0	33	0	0	34	0	39	73	72.2	45.7	33.0
Gipps Plain	902	Gully Woodland	6	Dry Forests	Endangered	635	112	0	112	0	0	112	0	108	220	34.6	50.8	17.6
Gipps Plain	903	Mangrove Shrubland/Estuarine Flats Grassland Mosaic	19	Salt-tolerant and/or succulent Shrublands	Endangered	76	0	0	0	0	54	54	0	22	76	99.9	0.0	0.0
Gipps Plain	904	Coast Banksia Woodland/Swamp Scrub Mosaic	1	Coastal Scrubs Grasslands and Woodlands	Vulnerable	326	7	0	7	0	0	7	0	38	45	13.9	16.3	2.3
Gipps Plain	906	Brackish Grassland/Swamp Scrub Mosaic	18	Wetlands	Endangered	47	0	0	0	0	0	0	3	0	3	6.3	0.0	0.0
Gipps Plain	909	Coastal Dune Scrub/Bird Colony Succulent Herbland Mosaic	1	Coastal Scrubs Grasslands and Woodlands	Depleted	140	0	0	0	0	125	125	0	14	139	99.0	0.0	0.0
Gipps Plain	910	Bird Colony Succulent Herbland/Coastal Tussock Grassland Mosaic	1	Coastal Scrubs Grasslands and Woodlands	Rare	35	3	0	3	0	13	16	0	6	22	62.8	14.8	9.3
Gipps Plain	914	Estuarine Flats Grassland	18	Wetlands	Endangered	551	36	0	36	2	0	36	0	72	109	19.8	33.0	6.5
Gipps Plain	915	Aquatic Herbland/Swamp Scrub Mosaic	18	Wetlands	Endangered	43	38	0	38	0	0	38	0	2	40	91.5	94.8	86.7

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Gipps Plain	919	Coastal Headland Scrub/Coast Banksia Woodland Mosaic	1	Coastal Scrubs Grasslands and Woodlands	Vulnerable	0	0	0	0	0	0	0	63	0	63	0.0	0.0	0.0
Gipps Plain	919	Coastal Headland Scrub/Coast Banksia Woodland Mosaic	1	Coastal Scrubs Grasslands and Woodlands	X	353	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Gipps Plain	921	Coast Banksia Woodland/Coastal Dune Scrub Mosaic	1	Coastal Scrubs Grasslands and Woodlands	Vulnerable	1241	529	0	529	1	6	535	0	177	713	57.4	74.3	42.7
Gipps Plain	922	Coastal Alkaline Scrub/Bird Colony Succulent Herbland Mosaic	1	Coastal Scrubs Grasslands and Woodlands	Vulnerable	107	0	0	0	0	24	24	0	32	56	52.3	0.0	0.0
Gipps Plain	924	Grassy Woodland/Swamp Scrub Mosaic	5	Lower Slopes or Hills Woodlands	Endangered	4226	2	0	2	6	0	2	0	286	293	6.9	0.5	0.0
Gipps Plain	925	Damp Sands Herb-rich Woodland/Swamp Scrub Mosaic	15	Herb-rich Woodlands	X	2260	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Gipps Plain	925	Damp Sands Herb-rich Woodland/Swamp Scrub Mosaic	15	Herb-rich Woodlands	Endangered	2260	57	0	57	120	0	57	0	119	295	13.1	19.3	2.5
Gipps Plain	927	Plains Grassy Woodland/Swamp Scrub/Plains Grassy Wetland Mosaic	13	Plains Woodlands or Forests	Endangered	1411	0	0	0	0	0	0	36	0	36	2.6	0.0	0.0
Gipps Plain	934	Brackish Grassland	18	Wetlands	Endangered	716	0	0	0	39	0	0	0	12	52	7.2	0.0	0.0
Gipps Plain	935	Estuarine Wetland/Estuarine Swamp Scrub Mosaic	18	Wetlands	Depleted	532	114	0	114	9	0	114	0	129	252	47.3	45.2	21.4
Gipps Plain	937	Swampy Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	5994	88	0	88	320	0	88	0	1603	2010	33.5	4.4	1.5
Gipps Plain	1106	Damp Heathy Woodland/Lowland Forest Mosaic	2	Heathy Woodlands	Vulnerable	0	174	0	174	51	0	174	0	5156	5381	0.0	3.2	0.0
Total						1,197,792	94,942	29,501	124,444	25,668	1,517	96,460	162	169,947	321,738	26.9%	30.0%	8.1%

14. Otway Plain

Bioregion size: 237 000 ha
 Native vegetation cover: 84 454 ha (36%)
 Conservation reserve cover (excludes State Forests): 29 836 ha (35%)

Conservation Priorities

Conservation priority in the Bioregion should include increasing the percentage of EVC group Lower Slopes or Hills Woodlands, which was previously the most abundant EVC group in the region and has been extensively cleared. Areas of vegetation remaining on non-conservation public land include Endangered EVCs, from both the Lower Slopes or Hills Woodlands EVC group and the Salt-tolerant and/or succulent Shrublands EVC group, and should also be given conservation priority.

The Otway Plain Bioregion (OtP) covers approximately 237 000 ha, and stretches southwest from Geelong towards Port Campbell, with outliers between Werribee and Little River, Apollo Bay, and the western coastline of Cape Otway to Johanna Falls. The major towns in the region are Geelong and Colac. Elevated areas of the region generally support Lowland Forest and Heathy Woodland, with floodplains and lower areas supporting Grassy Woodlands. Lakes and wetlands in the region include Lake Connewarre, Lake Modewarre, Reedy Lake and Swan Bay. The Otway Plain is also classified as Interim Biogeographic Regionalisation of Australia (IBRA) Sub-region SCP2. The majority of the Bioregion falls within the Corangamite Catchment Management Authority (CMA) area, with the Werribee outlier in the Port Phillip and Westernport CMA. Under the proposed alignment of new Natural Resource and Catchment Authorities (NRCA) to be implemented in 2011, the Corangamite CMA will become part of the Western Districts NRCA, while the Port Phillip and Westernport CMA will be part of the Melbourne Water & Catchment Authority.

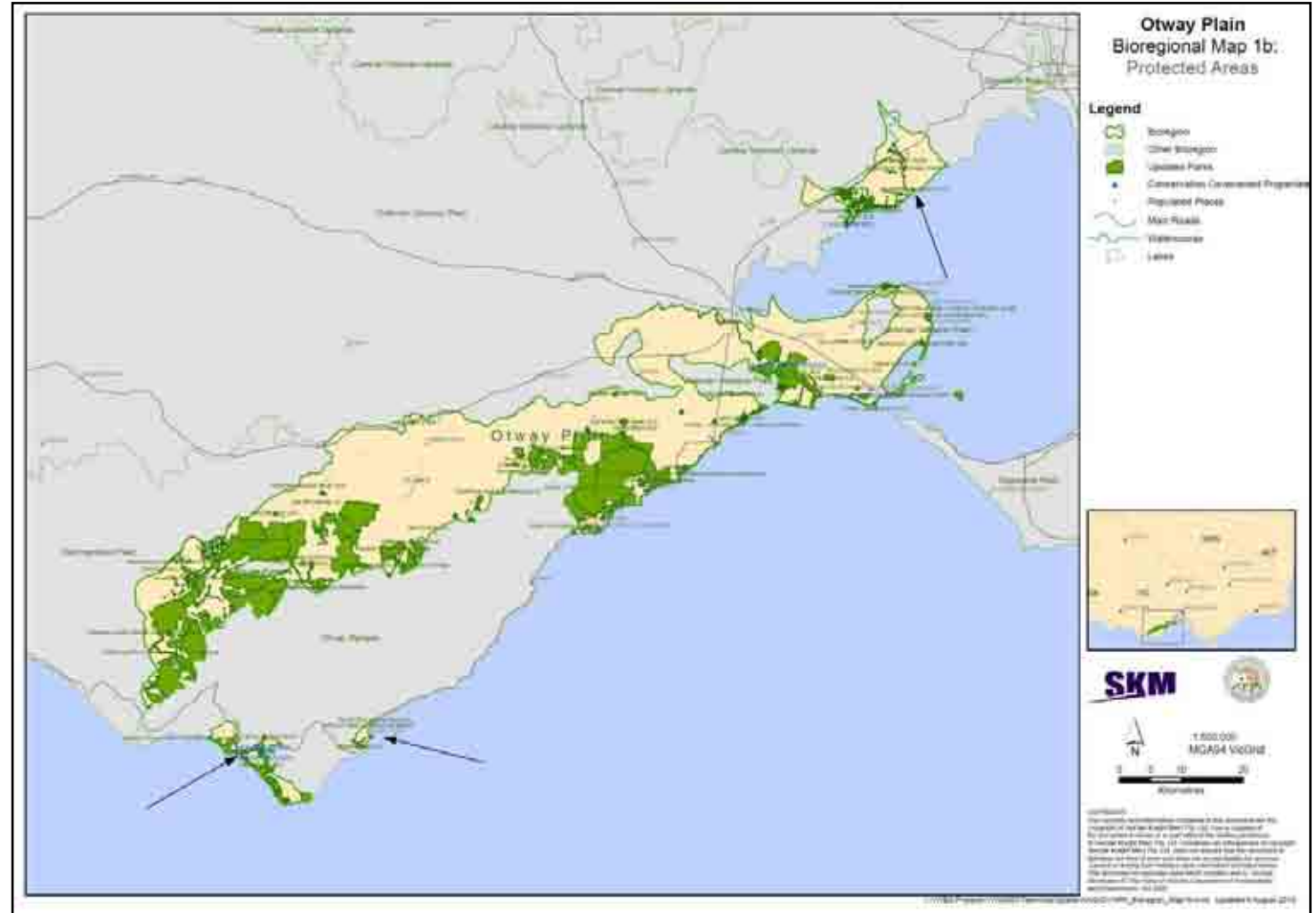


Figure 14-2 Protected Areas - Otway Plain

The Great Otway National Park covers some of the south-western extent of the Bioregion, with a range of medium-sized reserves classified as 'other' Crown Land, such as the Otway Forest Park and Anglesea Heath. The Bioregion also encompasses Port Phillip Bay (Western Shoreline) and Bellarine Peninsula Ramsar site, located near Geelong. The Bioregion supports 49 Ecological Vegetation Classes (EVCs), of which 20 have a Bioregional Conservation Status (BCS) of Endangered. The area has been largely cleared with only 36% of the pre-1750 EVC remaining, of which only 35% is protected on conservation land. Additionally, a number of nationally significant communities and species are present in the area including Commonwealth Environment Protection and Biodiversity Conservation (EPBC) Act listed Spiny Rice-Flower (*Pimelea spinescens* subsp. *spinescens*), Critically Endangered, and Anglesea Grevillea (*Grevillea infecunda*), Growling Grass Frog (*Litoria raniformis*) and Striped Legless Lizard (*Delma impar*), all listed as Vulnerable. Also listed under the EPBC Act is the Endangered Eastern Barred Bandicoot (*Perameles gunnii*), which has been the subject of an active recovery program and has been reintroduced into the region. Ten (10) migratory and 15 listed marine bird species are also known to occur in the area. Land use in the Otway Plains is predominately agriculture, particularly sheep and cattle grazing and dairy farming, with a minor timber and firewood industry. Several urban areas and associated leisure activities also exist within the region. Ongoing threats to this Bioregion include loss of vegetation from riparian zones, the spread and establishment of non-indigenous species and pest animals, particularly weeds of grasslands, feral rabbits, goats, deer and pigs. Climate change also poses an ongoing threat to the region, as it is expected to become hotter and drier, increasing bushfire and drought risk and decreasing flows in the region's river systems.

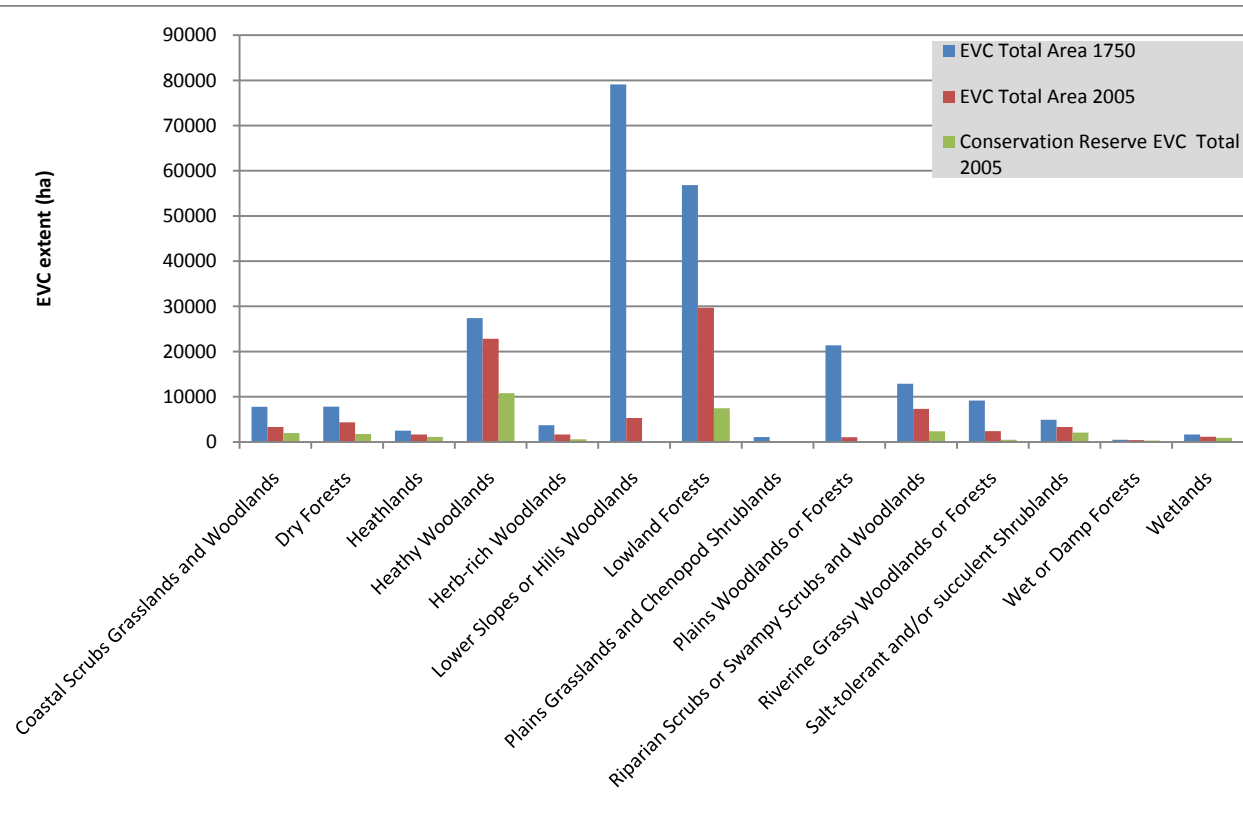
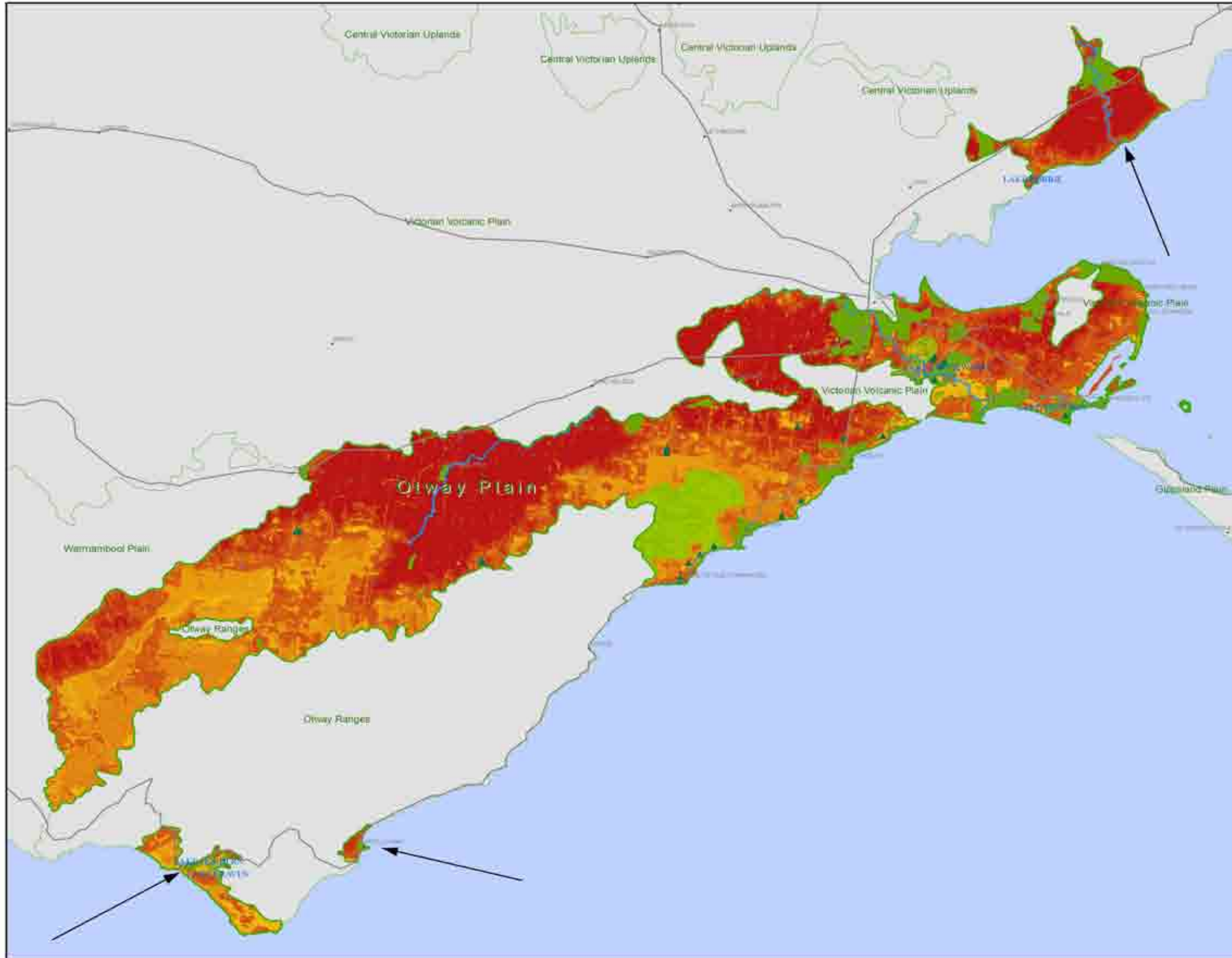


Figure 14-1 EVC Group Breakdown



Otway Plain
Bioregional Map 1a:
Landscape Priorities

Legend

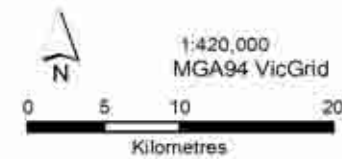
- Bioregion
- Other Bioregion
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes

Landscape Importance

High : 20
Low : 1



SKM



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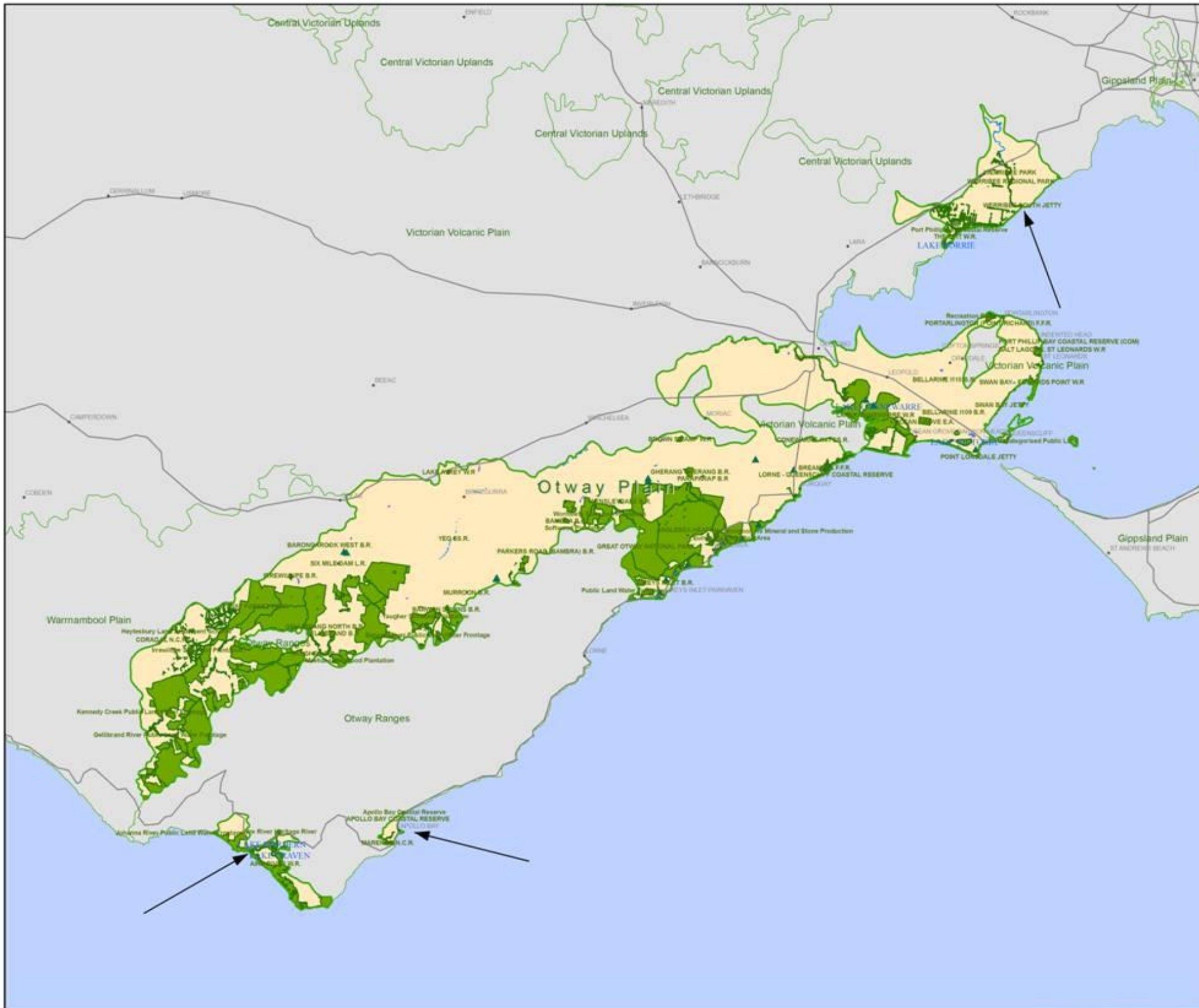
Otway Plain Bioregional Map 1b: Protected Areas

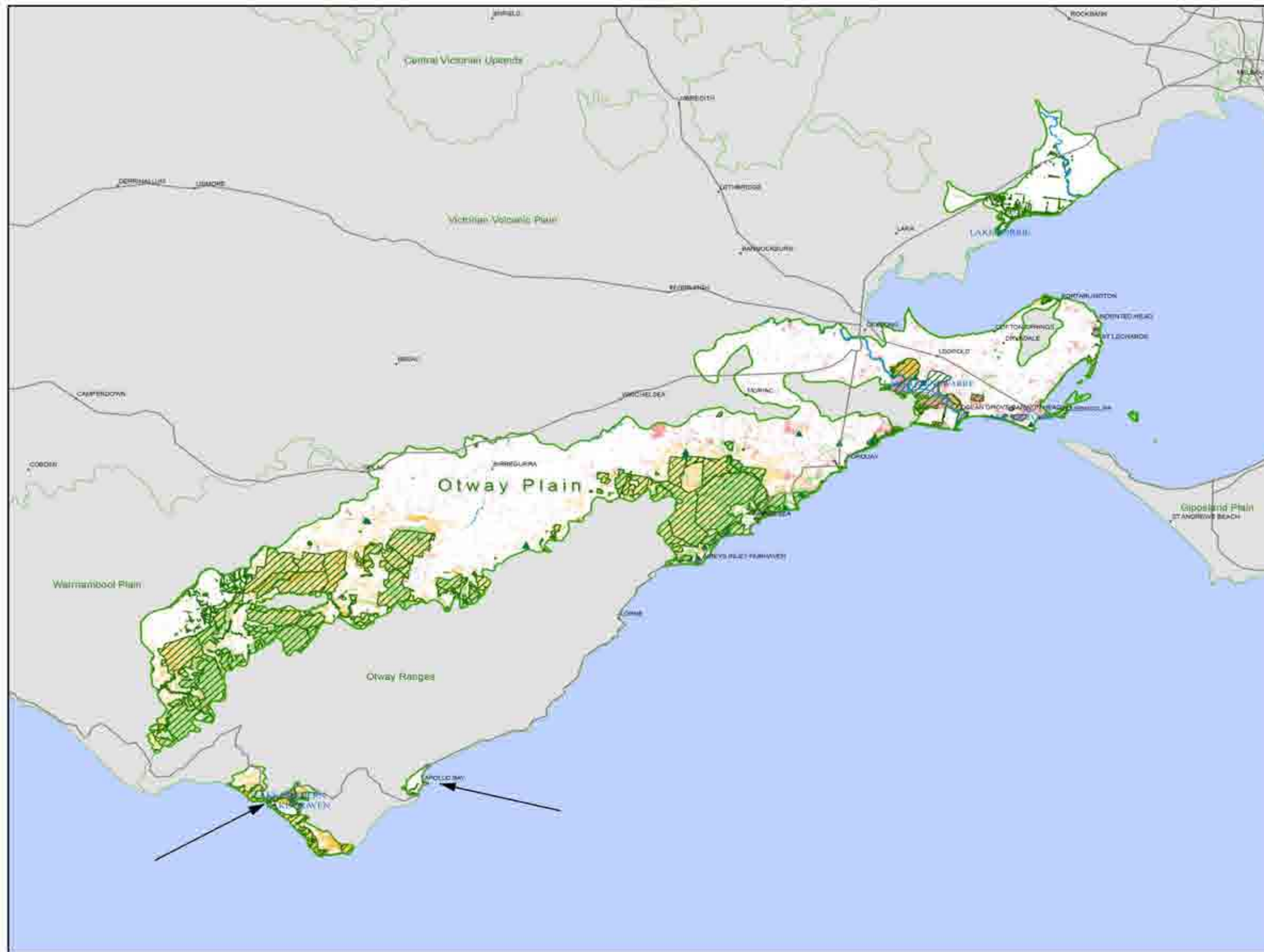
- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes



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MGA94 VicGrid

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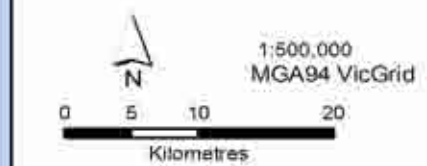
**Otway Plain
Bioregional Map 2a:
Vegetation Conservation
Significance**

Legend

- Bioregion
- Other Bioregion
- Updated Parks
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes

EVC Bioregional Conservation Status

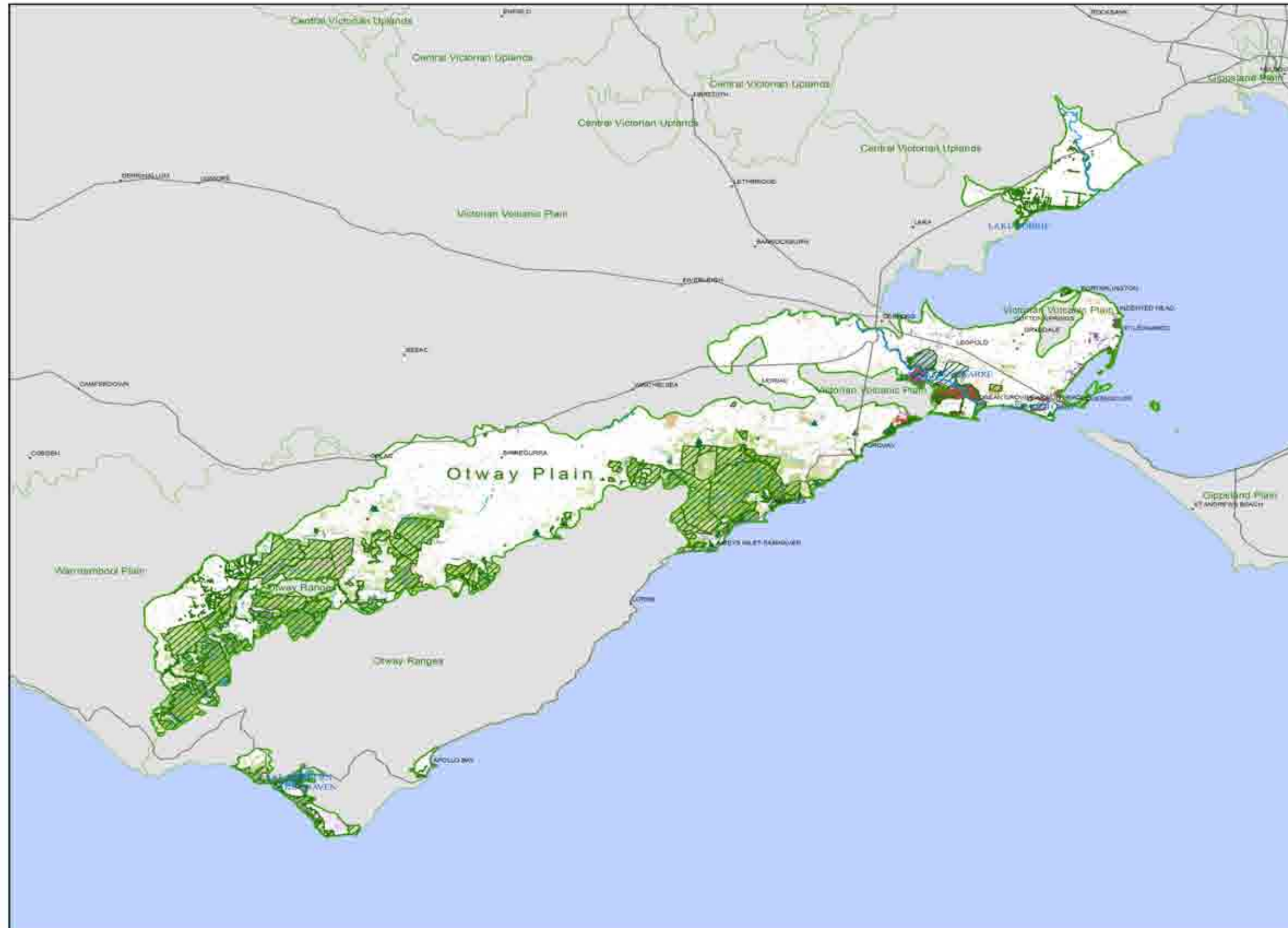
- Endangered
- Vulnerable
- Depleted
- Rare
- Least Concern



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**Otway Plain
Bioregional Map 2b:
EVC Groups**

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- EVC Group**
- Coastal Scrubs Grasslands and Woodlands
 - Heathy Woodlands
 - Lowland Forests
 - Box Ironback Forests or dry/low fertility Woodlands
 - Lower Slopes or Hills Woodlands
 - Dry Forests
 - Wet or Damp Forests
 - Riparian Scrubs or Swampy Scrubs and Woodlands
 - Rainforests
 - Montane Grasslands, Shrublands or Woodlands
 - Sub-alpine Grasslands, Shrublands or Woodlands
 - Plains Grasslands and Chenopod Shrublands
 - Plains Woodlands or Forests
 - Riverine Grassy Woodlands or Forests
 - Herb-rich Woodlands
 - Heathlands
 - Mallee
 - Wetlands
 - Salt-tolerant and/or succulent Shrublands
 - Rocky Outcrop or Escarpment Scrubs
 - No native vegetation recorded



1:500,000
MGA94 VicGrid

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Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Otway Plain	1	Coastal Dune Scrub/Coastal Dune Grassland Mosaic	1	Coastal Scrubs Grasslands and Woodlands	Depleted	2051	1146	0	1146	79	0	1146	0	138	1363	66.5	84.1	55.9
Otway Plain	3	Damp Sands Herb-rich Woodland	15	Herb-rich Woodlands	Vulnerable	3711	568	0	568	141	0	568	0	924	1633	44.0	34.8	15.3
Otway Plain	6	Sand Heathland	16	Heathlands	Rare	176	152	0	152	2	0	152	0	18	172	97.8	88.6	86.6
Otway Plain	7	Clay Heathland	16	Heathlands	Vulnerable	32	2	0	2	30	0	2	0	0	32	100.0	5.4	5.4
Otway Plain	8	Wet Heathland	16	Heathlands	Least Concern	1781	924	0	924	297	0	924	0	127	1348	75.7	68.5	51.9
Otway Plain	9	Coastal Saltmarsh	19	Salt-tolerant and/or succulent Shrublands	Endangered	726	7	0	7	75	0	7	0	40	122	16.8	6.0	1.0
Otway Plain	10	Estuarine Wetland	18	Wetlands	Endangered	81	44	0	44	0	0	44	0	31	74	91.4	58.6	53.6
Otway Plain	16	Lowland Forest	3	Lowland Forests	Depleted	56816	7447	0	7447	9846	0	7447	0	12401	29694	52.3	25.1	13.1
Otway Plain	17	Riparian Scrub/Swampy Riparian Woodland Complex	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Depleted	5662	1692	0	1692	1647	0	1692	0	941	4281	75.6	39.5	29.9
Otway Plain	18	Riparian Forest	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	2031	220	0	220	542	0	220	0	593	1355	66.7	16.2	10.8
Otway Plain	21	Shrubby Dry Forest	6	Dry Forests	Least Concern	1062	368	0	368	0	0	368	0	478	846	79.6	43.5	34.6
Otway Plain	23	Herb-rich Foothill Forest	6	Dry Forests	Vulnerable	3330	834	0	834	498	0	834	0	656	1989	59.7	42.0	25.1
Otway Plain	30	Wet Forest	7	Wet or Damp Forests	Least Concern	308	222	0	222	12	0	222	0	41	275	89.3	80.7	72.0
Otway Plain	45	Shrubby Foothill Forest	6	Dry Forests	Least Concern	1625	534	0	534	144	0	534	0	523	1201	73.9	44.5	32.9
Otway Plain	48	Heathy Woodland	2	Heathy Woodlands	Least Concern	26522	10799	0	10799	7596	0	10799	0	4222	22617	85.3	47.7	40.7
Otway Plain	53	Swamp Scrub	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	1888	144	0	144	23	0	144	0	557	724	38.4	19.9	7.6
Otway Plain	55	Plains Grassy Woodland	13	Plains Woodlands or Forests	Endangered	20538	44	0	44	224	0	44	0	749	1016	4.9	4.3	0.2
Otway Plain	56	Floodplain Riparian Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	6562	3	0	3	240	0	3	0	380	623	9.5	0.5	0.0
Otway Plain	68	Creekline Grassy Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	111	0	0	0	19	0	0	0	31	50	45.2	0.0	0.0
Otway Plain	74	Wetland Formation	18	Wetlands	Endangered	233	178	0	178	6	0	178	0	36	220	94.5	81.0	76.5
Otway Plain	83	Swampy Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	2798	0	0	0	55	0	0	0	461	516	18.4	0.1	0.0
Otway Plain	104	Lignum Swamp	18	Wetlands	Endangered	0	0	0	0	2	0	0	0	40	42	0.0	0.0	0.0
Otway Plain	104	Lignum Wetland	18	Wetlands		80	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Otway Plain	125	Plains Grassy Wetland	18	Wetlands	Endangered	31	0	0	0	0	0	0	1	0	1	2.4	0.0	0.0
Otway Plain	128	Grassy Forest	6	Dry Forests	Endangered	1593	1	0	1	0	0	1	0	219	220	13.8	0.3	0.0
Otway Plain	132	Plains Grassland	12	Plains Grasslands and Chenopod Shrublands	Endangered	1071	3	0	3	14	0	3	0	124	142	13.2	2.1	0.3
Otway Plain	140	Mangrove Shrubland	19	Salt-tolerant and/or succulent Shrublands	Vulnerable	64	45	0	45	0	0	45	0	15	59	92.4	75.4	69.7
Otway Plain	154	Bird Colony Shrubland	1	Coastal Scrubs Grasslands and Woodlands	Rare	4	0	0	0	0	0	0	2	0	2	64.4	0.0	0.0
Otway Plain	161	Coastal Headland Scrub	1	Coastal Scrubs Grasslands and Woodlands	Vulnerable	799	558	0	558	2	0	558	0	105	666	83.3	83.8	69.8
Otway Plain	163	Coastal Tussock Grassland	1	Coastal Scrubs Grasslands and Woodlands	Vulnerable	113	35	0	35	0	0	35	0	41	76	67.5	45.8	30.9
Otway Plain	165	Damp Heath Scrub	16	Heathlands	Endangered	497	26	0	26	7	0	26	0	51	84	17.0	31.2	5.3
Otway Plain	175	Grassy Woodland	5	Lower Slopes or Hills Woodlands	Endangered	79101	30	0	30	528	0	30	0	4753	5311	6.7	0.6	0.0
Otway Plain	178	Herb-rich Foothill Forest/Shrubby Foothill Forest Complex	6	Dry Forests	Vulnerable	206	8	0	8	21	0	8	0	40	69	33.5	12.3	4.1
Otway Plain	196	Seasonally Inundated Sub-saline Herbland	19	Salt-tolerant and/or succulent Shrublands	Rare	58	52	0	52	0	0	52	0	0	52	89.7	100.0	89.7
Otway Plain	198	Sedgy Riparian Woodland	14	Riverine Grassy Woodlands or Forests	Depleted	2381	405	0	405	675	0	405	0	545	1626	68.3	24.9	17.0
Otway Plain	200	Shallow Freshwater Marsh	18	Wetlands	Endangered	4	0	0	0	4	0	0	0	0	4	100.0	0.0	0.0
Otway Plain	201	Shrubby Wet Forest	7	Wet or Damp Forests	Least Concern	155	66	0	66	39	0	66	0	29	134	86.4	49.3	42.6
Otway Plain	203	Stony Rises Woodland	13	Plains Woodlands or Forests		423	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Otway Plain	203	Stony Rises Woodland	13	Plains Woodlands or Forests	Vulnerable	423	0	0	0	0	0	0	0	17	17	4.0	0.5	0.0
Otway Plain	233	Wet Sands Thicket	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Rare	453	289	0	289	78	0	289	0	51	418	92.4	69.2	63.9
Otway Plain	300	Reed Swamp	18	Wetlands	Vulnerable	564	546	0	546	0	0	546	0	6	552	97.8	99.0	96.8

Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Otway Plain	302	Coastal Saltmarsh/Mangrove Shrubland Mosaic	19	Salt-tolerant and/or succulent Shrublands	Endangered	4048	1966	0	1966	90	0	1966	0	1011	3067	75.8	64.1	48.6
Otway Plain	311	Berm Grassy Shrubland	1	Coastal Scrubs Grasslands and Woodlands		13	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Otway Plain	647	Plains Sedgy Wetland	18	Wetlands	Endangered	405	13	0	13	30	0	13	0	32	75	18.6	17.4	3.2
Otway Plain	691	Aquatic Herbland/Plains Sedgy Wetland Mosaic	18	Wetlands	Endangered	115	32	0	32	8	0	32	0	17	56	49.3	56.2	27.7
Otway Plain	851	Stream Bank Shrubland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	30	0	0	0	8	0	0	0	5	13	44.3	0.0	0.0
Otway Plain	858	Coastal Alkaline Scrub	1	Coastal Scrubs Grasslands and Woodlands	Endangered	4656	168	0	168	134	0	168	0	806	1108	23.8	15.2	3.6
Otway Plain	863	Floodplain Reedbed	14	Riverine Grassy Woodlands or Forests	Endangered	107	83	0	83	0	0	83	0	22	105	98.5	78.9	77.7
Otway Plain	891	Plains Brackish Sedge Wetland	18	Wetlands	Vulnerable	29	22	0	22	0	0	22	0	6	29	98.6	77.8	76.7
Otway Plain	892	Heathy Woodland/Sand Heathland Mosaic	2	Heathy Woodlands	Least Concern	869	0	0	0	0	0	0	207	0	207	23.9	0.0	0.0
Otway Plain	898	Cane Grass-Lignum Halophytic Herbland	1	Coastal Scrubs Grasslands and Woodlands	Vulnerable	137	77	0	77	1	0	77	0	5	83	60.3	93.1	56.1
Otway Plain	899	Plains Freshwater Sedge Wetland	18	Wetlands	Vulnerable	91	81	0	81	0	0	81	0	3	84	92.3	96.8	89.4
Total						236,563	29,836	0	29,836	23,117	0	29,836	211	31,290	84,454	35.7%	35.3%	12.6%

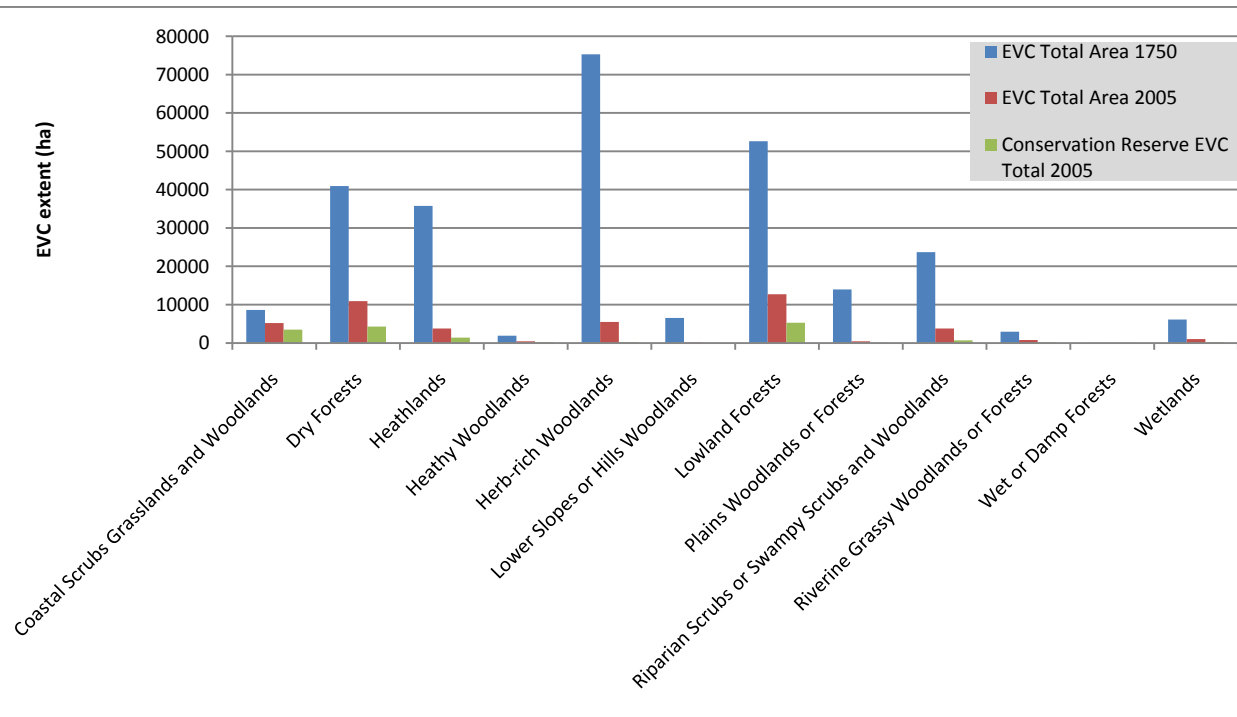
15. Warrnambool Plain

Bioregion size: 258 672 ha
 Native vegetation cover: 44 759 ha (17%)
 Conservation reserve cover (excludes State Forests): 16 040 ha (36%)

Conservation Priorities

Very little native vegetation is located on non-conservation public land in the Bioregion. Of the vegetation available, several small areas of EVC group Herb-rich Woodlands exist, which is the most extensively cleared group in the Bioregion and also includes Endangered EVCs. Protection of small areas of the Riparian Scrubs or Swampy Scrubs and Woodlands EVC group also exist, which includes Endangered EVCs would improve connectivity between native vegetation patches.

The Warrnambool Plain (WaP) covers approximately 258 672 ha along the Victorian south coast, from Portland stretching east towards the Otway Ranges. The Bioregion is typified by a distinctive cliffed coastline and low calcareous dune formations, dissected by rivers, inlets and swamplands, dominated by Lowland Forest and Herb-rich Foothill Forest ecosystems. Warrnambool and Portland are the major municipalities in the region. The Warrnambool Plain is Sub-region SCP3 of the South East Coastal Plain Interim Biogeographic Regionalisation of Australia (IBRA) Bioregion. The Bioregion is divided between the Glenelg Hopkins Catchment Management Authority (CMA) area and the Corangamite CMA area. Under the proposed alignment of new Natural Resource & Catchment Authorities (NCRA) to be implemented in 2011, the Glenelg Hopkins CMA and the Corangamite CMA will form part of the Western Districts NCRA. Port Campbell National Park is located within the Bioregion. Native vegetation in the bioregion consists of 40 Ecological Vegetation Classes (EVCs) and EVC complexes and mosaics. Twenty-two (22) of the EVCs present have a Bioregional Conservation Status (BCS) of Endangered. The area has been largely cleared of native vegetation for agricultural purposes, with 17% of the pre-1750 EVCs remaining in the area. Of the remaining vegetation, only 36% is protected on conservation land.

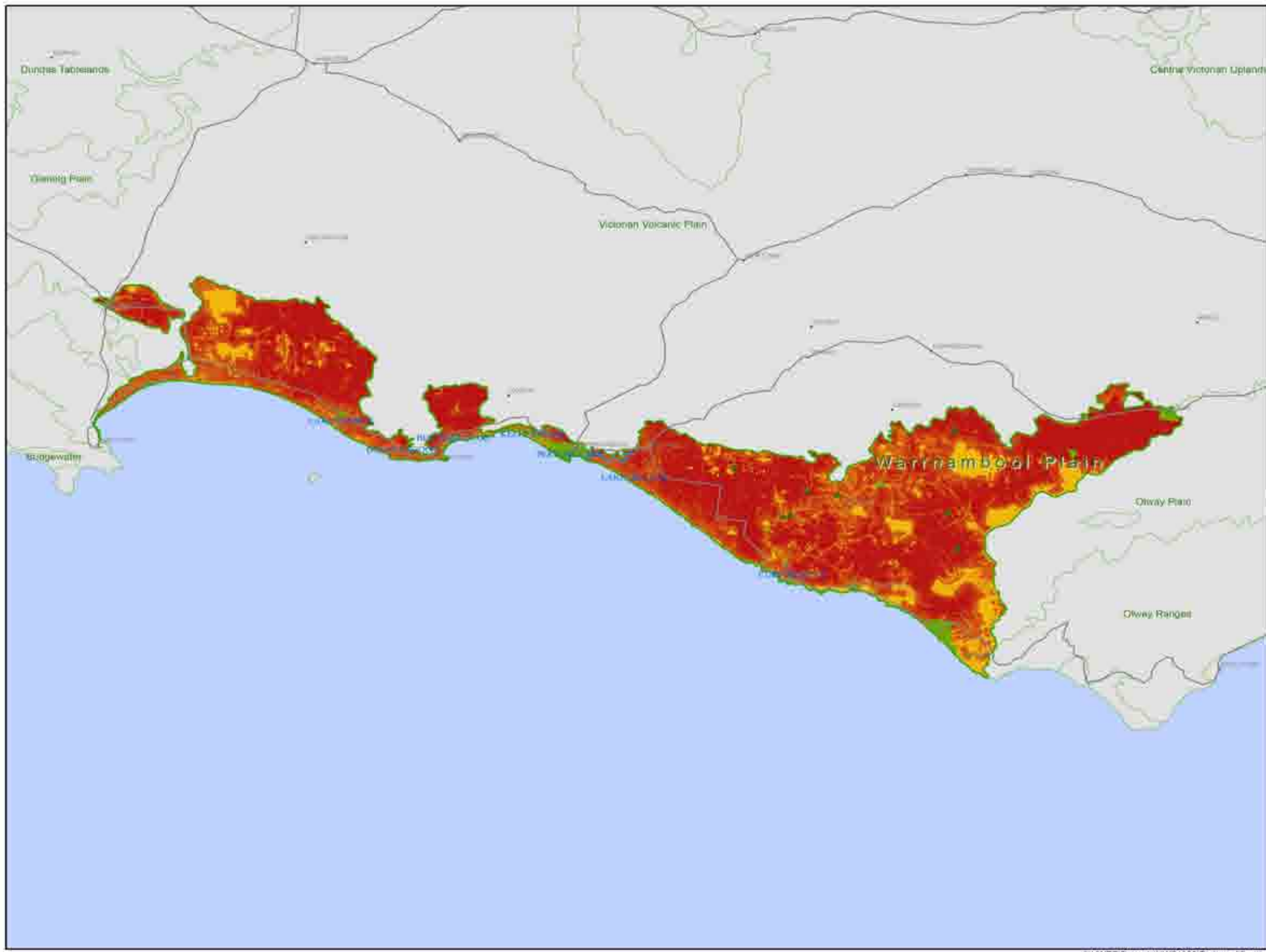


■ Figure 15-1 EVC Group Breakdown



■ Figure 15-2 Protected Areas – Warrnambool Plain

Of note, EVC 713 - Damp Sands Herb-rich Woodland/Damp Heathland/Damp Heathy Woodland Mosaic, listed as Endangered, covered the largest area of the pre-1750 EVCs and now has less than 7% of the vegetation remaining. A number of Commonwealth Environment Protection and Biodiversity Conservation (EPBC) Act listed species are known to occur within the Bioregion, including Orange-bellied Parrot (*Neophema chrysogaster*), listed as Critically Endangered, Growling Grass Frog (*Litoria raniformis*), listed as Vulnerable and Australian Grayling (*Prototocotes maraena*), also listed as Vulnerable. The region also provides habitat for a large number of State Flora and Fauna Guarantee (FFG) Act listed fauna and flora, including Brolga (*Grus rubicunda*), Rufous Bristlebird, (*Dasyornis broadbenti*), Swamp Antechinus (*Antechinus minimus maritimus*), Australasian Bittern (*Botaurus poiciloptilus*), Lewins Rail (*Rallus pectoralis*), Swamp Skink (*Egernia coventryi*), Clover Glycine (*Glycine latrobeana*) and Metallic Sun-orchid (*Thelymitra epipactoides*). Of particular interest are the Common Bent-wing Bat (*Miniopterus schreibersii*) maternity cave located at Lake Gilleard, one of only three in south-east Australia, and a Southern Right Whale (*Eubalaena australis*) calving nursery located at Logans Beach near Warrnambool. Both species are also FFG Act listed. Land use in the Bioregion is predominately tourism, recreation and agriculture, particularly dairying and some beef production. Ongoing threats to the region are weed invasion, introduced predator species and increasing fragmentation of native habitats. As a largely coastal Bioregion, it is also susceptible to the effects of climate change, particularly rising sea levels and rising sea temperature and acidity.



**Warrnambool Plain
Bioregional Map 1a:
Landscape Priorities**

Legend

- Bioregion
- Other Bioregion
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes

Landscape Importance

High : 20
Low : 1



1:600,000
MGA94 VicGrid

0 5 10 20 30
Kilometres

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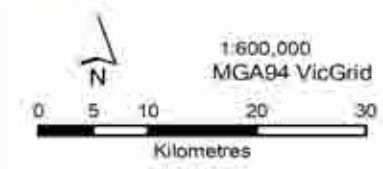
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Warrnambool Plain Bioregional Map 1b: Protected Areas

Legend

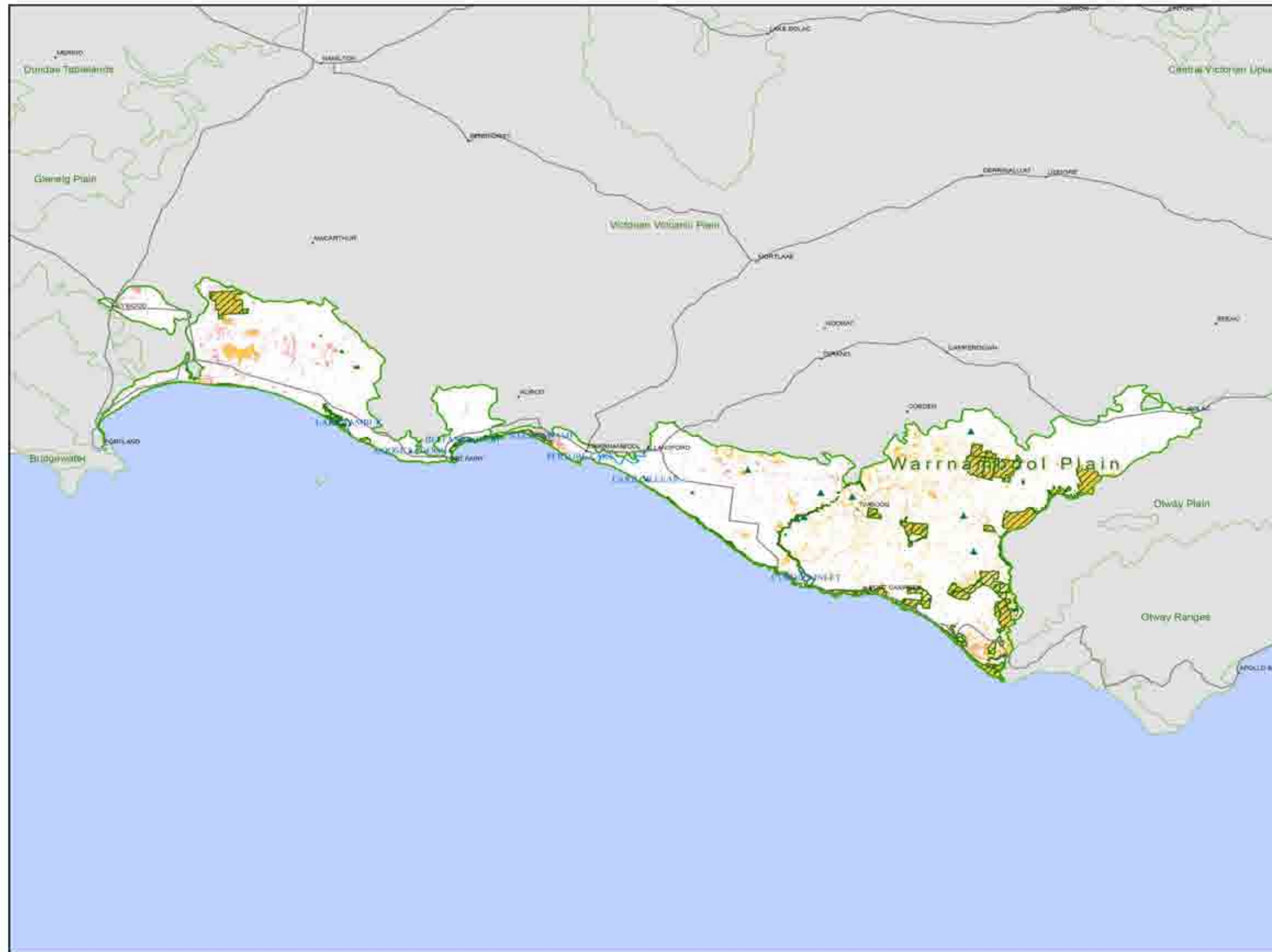
- Bioregion
- Other Bioregion
- Updated Parks
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes



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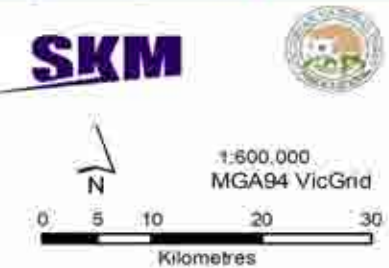
**Warrnambool Plain
Bioregional Map 2a:
Vegetation Conservation
Significance**

Legend

- Bioregion
- Other Bioregion
- Updated Parks
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes

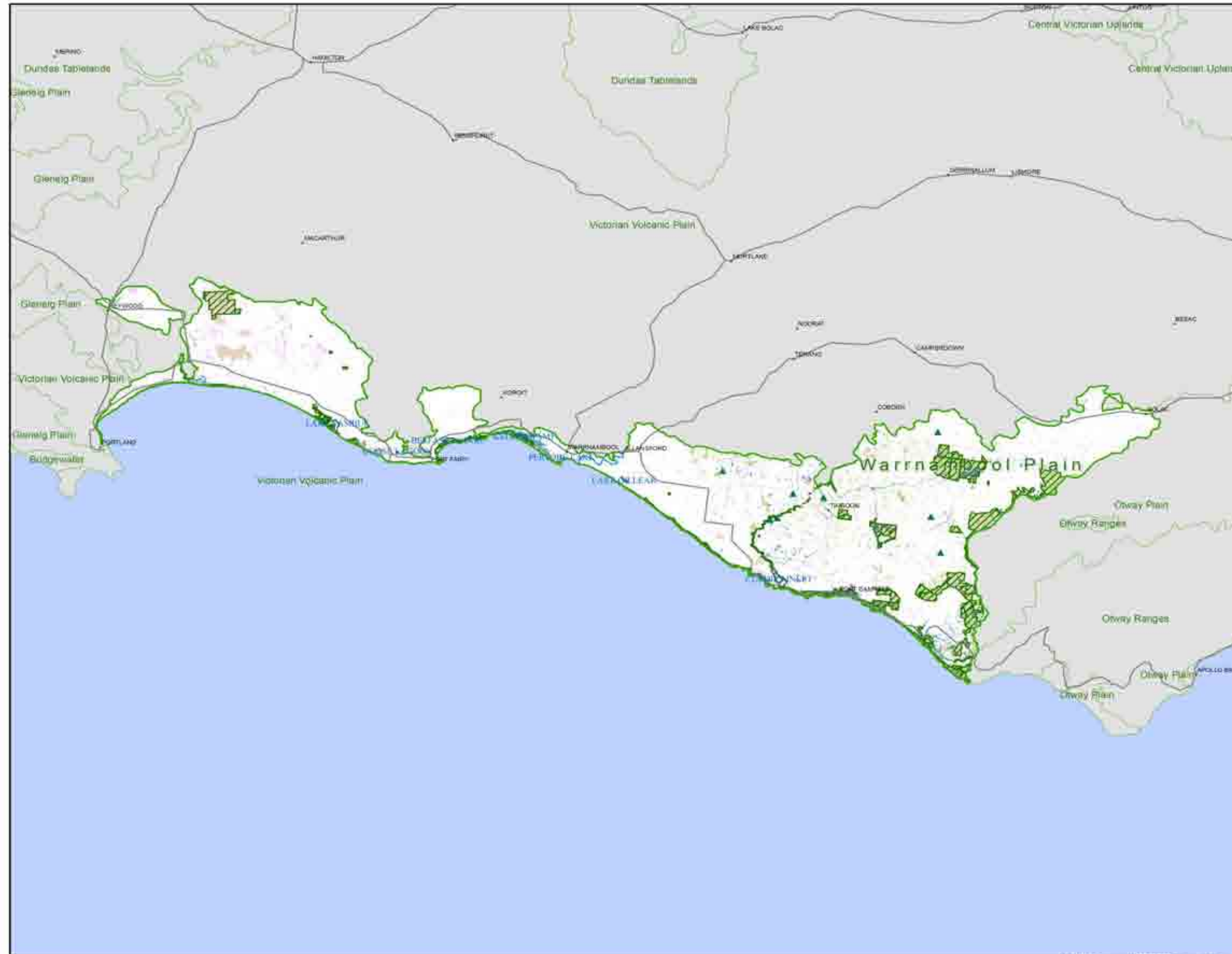
EVC Bioregional Conservation Status

- Endangered
- Vulnerable
- Depleted
- Rare
- Least Concern



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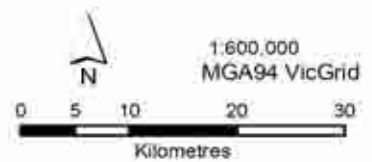


**Warrnambool Plain
Bioregional Map 2b:
EVC Groups**

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- EVC Group**
- Coastal Scrubs Grasslands and Woodlands
 - Heathy Woodlands
 - Lowland Forests
 - Box Ironbark Forests or dry/lower fertility Woodlands
 - Lower Slopes or Hills Woodlands
 - Dry Forests
 - Wet or Damp Forests
 - Riparian Scrubs or Swampy Scrubs and Woodlands
 - Rainforests
 - Montane Grasslands, Shrublands or Woodlands
 - Sub-alpine Grasslands, Shrublands or Woodlands
 - Plains Grasslands and Chenopod Shrublands
 - Plains Woodlands or Forests
 - Rivine Grassy Woodlands or Forests
 - Herb-rich Woodlands
 - Heathlands
 - Mallee
 - Wetlands
 - Salt-tolerant and/or succulent Shrublands
 - Rocky Outcrop or Escarpment Scrubs
 - No native vegetation recorded



SKM



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Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Warrnambool Plain	1	Coastal Dune Scrub/Coastal Dune Grassland Mosaic	1	Coastal Scrubs Grasslands and Woodlands	Vulnerable	608	289	0	289	0	0	289	0	71	360	59.2	80.3	47.5
Warrnambool Plain	3	Damp Sands Herb-rich Woodland	15	Herb-rich Woodlands	Endangered	12685	72	0	72	92	0	72	0	871	1035	8.2	7.0	0.6
Warrnambool Plain	8	Wet Heathland	16	Heathlands	Endangered	3121	262	0	262	74	0	262	0	300	636	20.4	41.2	8.4
Warrnambool Plain	10	Estuarine Wetland	18	Wetlands	Depleted	1201	206	0	206	191	0	206	0	402	799	66.5	25.8	17.1
Warrnambool Plain	16	Lowland Forest	3	Lowland Forests	Vulnerable	52622	5278	0	5278	1706	0	5278	0	5738	12722	24.2	41.5	10.0
Warrnambool Plain	17	Riparian Scrub/Swampy Riparian Woodland Complex	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	1000	131	0	131	127	0	131	0	368	626	62.6	21.0	13.1
Warrnambool Plain	18	Riparian Forest	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	2697	264	0	264	385	0	264	0	541	1191	44.1	22.2	9.8
Warrnambool Plain	23	Herb-rich Foothill Forest	6	Dry Forests	Vulnerable	38192	3123	750	3873	697	0	3123	0	4847	9417	24.7	41.1	10.1
Warrnambool Plain	45	Shrubby Foothill Forest	6	Dry Forests	Depleted	2744	1142	0	1142	156	0	1142	0	195	1492	54.4	76.5	41.6
Warrnambool Plain	48	Heathy Woodland	2	Heathy Woodlands	Vulnerable	1899	214	0	214	42	0	214	0	184	440	23.2	48.7	11.3
Warrnambool Plain	53	Swamp Scrub	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	17229	53	0	53	110	0	53	0	987	1149	6.7	4.6	0.3
Warrnambool Plain	55	Plains Grassy Woodland	13	Plains Woodlands or Forests	Endangered	4956	0	0	0	0	0	0	0	71	71	1.4	0.1	0.0
Warrnambool Plain	83	Swampy Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands		104	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Warrnambool Plain	125	Plains Grassy Wetland	18	Wetlands	Endangered	33	0	0	0	0	0	0	2	0	2	5.5	0.0	0.0
Warrnambool Plain	136	Sedge Wetland	18	Wetlands	Endangered	13	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Warrnambool Plain	154	Bird Colony Shrubland	1	Coastal Scrubs Grasslands and Woodlands	Rare	0	3	0	3	0	0	3	0	1	3	0.0	72.3	0.0
Warrnambool Plain	155	Bird Colony Succulent Herbland	1	Coastal Scrubs Grasslands and Woodlands	Vulnerable	2	0	0	0	0	0	0	2	0	2	88.9	0.0	0.0
Warrnambool Plain	160	Coastal Dune Scrub	1	Coastal Scrubs Grasslands and Woodlands	Depleted	3413	958	0	958	75	0	958	0	1007	2040	59.8	47.0	28.1
Warrnambool Plain	161	Coastal Headland Scrub	1	Coastal Scrubs Grasslands and Woodlands	Vulnerable	2286	1102	0	1102	25	0	1102	0	220	1346	58.9	81.9	48.2
Warrnambool Plain	162	Coastal Headland Scrub/Coastal Tussock Grassland Mosaic	1	Coastal Scrubs Grasslands and Woodlands	Vulnerable	1491	584	0	584	0	0	584	0	225	808	54.2	72.2	39.1
Warrnambool Plain	163	Coastal Tussock Grassland	1	Coastal Scrubs Grasslands and Woodlands	Vulnerable	470	387	0	387	0	0	387	0	33	420	89.4	92.2	82.4
Warrnambool Plain	165	Damp Heath Scrub	16	Heathlands	Vulnerable	15837	1114	0	1114	11	0	1114	0	1068	2193	13.9	50.8	7.0
Warrnambool Plain	175	Grassy Woodland	5	Lower Slopes or Hills Woodlands	Endangered	6433	0	0	0	22	0	0	0	132	154	2.4	0.1	0.0
Warrnambool Plain	181	Coast Gully Thicket	1	Coastal Scrubs Grasslands and Woodlands	Endangered	346	158	0	158	9	0	158	0	35	202	58.4	78.1	45.6
Warrnambool Plain	198	Sedgy Riparian Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	2929	209	0	209	160	0	209	0	397	766	26.2	27.3	7.1
Warrnambool Plain	200	Shallow Freshwater Marsh	18	Wetlands	Endangered	1315	0	0	0	0	0	0	0	58	58	4.4	0.0	0.0
Warrnambool Plain	201	Shrubby Wet Forest	7	Wet or Damp Forests	Least Concern	25	12	0	12	0	0	12	0	13	25	99.2	48.8	48.4
Warrnambool Plain	203	Stony Rises Woodland	13	Plains Woodlands or Forests	Vulnerable	369	54	0	54	29	0	54	0	139	222	60.2	24.5	14.7
Warrnambool Plain	300	Reed Swamp	18	Wetlands	Endangered	39	0	0	0	21	0	0	0	12	33	85.0	0.0	0.0
Warrnambool Plain	642	Basalt Shrubby Woodland	13	Plains Woodlands or Forests	Endangered	273	0	0	0	0	0	0	22	0	22	8.0	0.0	0.0

Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Warrnambool Plain	647	Plains Sedgy Wetland	18	Wetlands	Endangered	701	0	0	0	0	0	0	0	8	8	1.1	1.4	0.0
Warrnambool Plain	651	Plains Swampy Woodland	13	Plains Woodlands or Forests		3938	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Warrnambool Plain	651	Plains Swampy Woodland	13	Plains Woodlands or Forests	Endangered	3938	0	0	0	12	0	0	0	120	132	3.4	0.0	0.0
Warrnambool Plain	653	Aquatic Herbland	18	Wetlands	Endangered	218	17	0	17	5	0	17	0	10	32	14.9	53.3	7.9
Warrnambool Plain	680	Freshwater Meadow	18	Wetlands		395	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Warrnambool Plain	680	Freshwater Meadow	18	Wetlands	Endangered	395	0	0	0	4	0	0	0	22	26	6.6	0.0	0.0
Warrnambool Plain	681	Deep Freshwater Marsh	18	Wetlands	Endangered	855	0	0	0	2	0	0	0	75	77	9.0	0.0	0.0
Warrnambool Plain	691	Aquatic Herbland/Plains Sedgy Wetland Mosaic	18	Wetlands		944	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Warrnambool Plain	705	Basalt Creekline Shrubby Woodland	13	Plains Woodlands or Forests	Endangered	1	0	0	0	0	0	0	0	0	0	15.6	0.0	0.0
Warrnambool Plain	713	Damp Sands Herb-rich Woodland/Damp Heathland/Damp Heathy Woodland Mosaic	15	Herb-rich Woodlands	Endangered	55376	132	201	332	80	0	132	0	3431	3844	6.9	8.6	0.6
Warrnambool Plain	714	Stony Knoll Shrubland/Plains Grassy Woodland/Plains Grassy Wetland Mosaic	13	Plains Woodlands or Forests		476	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Warrnambool Plain	720	Swamp Scrub/Aquatic Herbland Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	2304	238	0	238	39	0	238	0	551	827	35.9	28.8	10.3
Warrnambool Plain	732	Damp Sands Herb-rich Woodland/Plains Swampy Woodland/Aquatic Herbland Mosaic	15	Herb-rich Woodlands	Endangered	7238	17	0	17	42	0	17	0	567	626	8.7	2.7	0.2
Warrnambool Plain	733	Swamp Scrub/Plains Sedgy Wetland/Aquatic Herbland Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands		174	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Warrnambool Plain	733	Swamp Scrub/Plains Sedgy Wetland/Aquatic Herbland Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	174	0	0	0	1	0	0	0	1	2	0.9	0.0	0.0
Warrnambool Plain	746	Damp Heathland/Damp Heathy Woodland Mosaic	16	Heathlands	Endangered	16785	7	0	7	1	0	7	0	914	922	5.5	0.8	0.0
Warrnambool Plain	836	Damp Heath Scrub/Heathy Woodland Complex	16	Heathlands	Vulnerable	16	15	0	15	0	0	15	0	2	16	100.0	90.6	90.6
Warrnambool Plain	894	Scoria Cone Woodland	5	Lower Slopes or Hills Woodlands	Endangered	0	0	0	0	0	0	0	12	0	12	0.0	0.0	0.0
Warrnambool Plain	894	Scoria Cone Woodland	5	Lower Slopes or Hills Woodlands		111	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Total						268,371	16,040	951	16,991	4,118	0	16,040	38	23,612	44,759	16.7%	35.8%	6.0%

16. Goldfields

Bioregion size: 1 325 762 ha
 Native vegetation cover: 742 170 ha (56%)
 Conservation reserve cover (excludes State Forests): 127 312 ha (17%)

Conservation Priority

Conservation priority in the Bioregion should include increasing the percentage of EVC group Lower Slopes or Hills Woodlands, which was previously the most abundant EVC group in the region and has been extensively cleared. Areas of vegetation from this EVC group remaining on non-conservation public land include Endangered EVCs and should also be given conservation priority. Significant areas of Box Ironbark Forests or dry/lower fertility Woodlands are also available for further conservation, given the small percentage of protected vegetation from this group, and include also Endangered EVCs.

The Goldfields (Gold) Bioregion extends across central Victoria, from Stawell to Seymour, surrounding Greater Bendigo and Ararat. The Bioregion covers approximately 1 325 762 ha, approximately 44% of which has been cleared. The Goldfields are dominated by dissected uplands, dissected by low-lying alluvial valleys and basaltic plains, supporting Grassy Woodland, Dry Forests and Box-Ironbark Forests. The Goldfields Bioregion is also classified in the Interim Bioregionalisation of Australia (IBRA) as sub-region VM1. Most of the Bioregion is within the North Central Catchment Management Authority (CMA), with the eastern extent within the Goulburn Broken CMA, and the western extent within the Wimmera CMA. The planned mergers of CMAs in 2011 will mean much of the Bioregion will be within the Northern Rivers Natural Resources and Catchment Authority (NRCA), with the eastern extent around Ararat being managed by the Wimmera-Mallee NRCA.

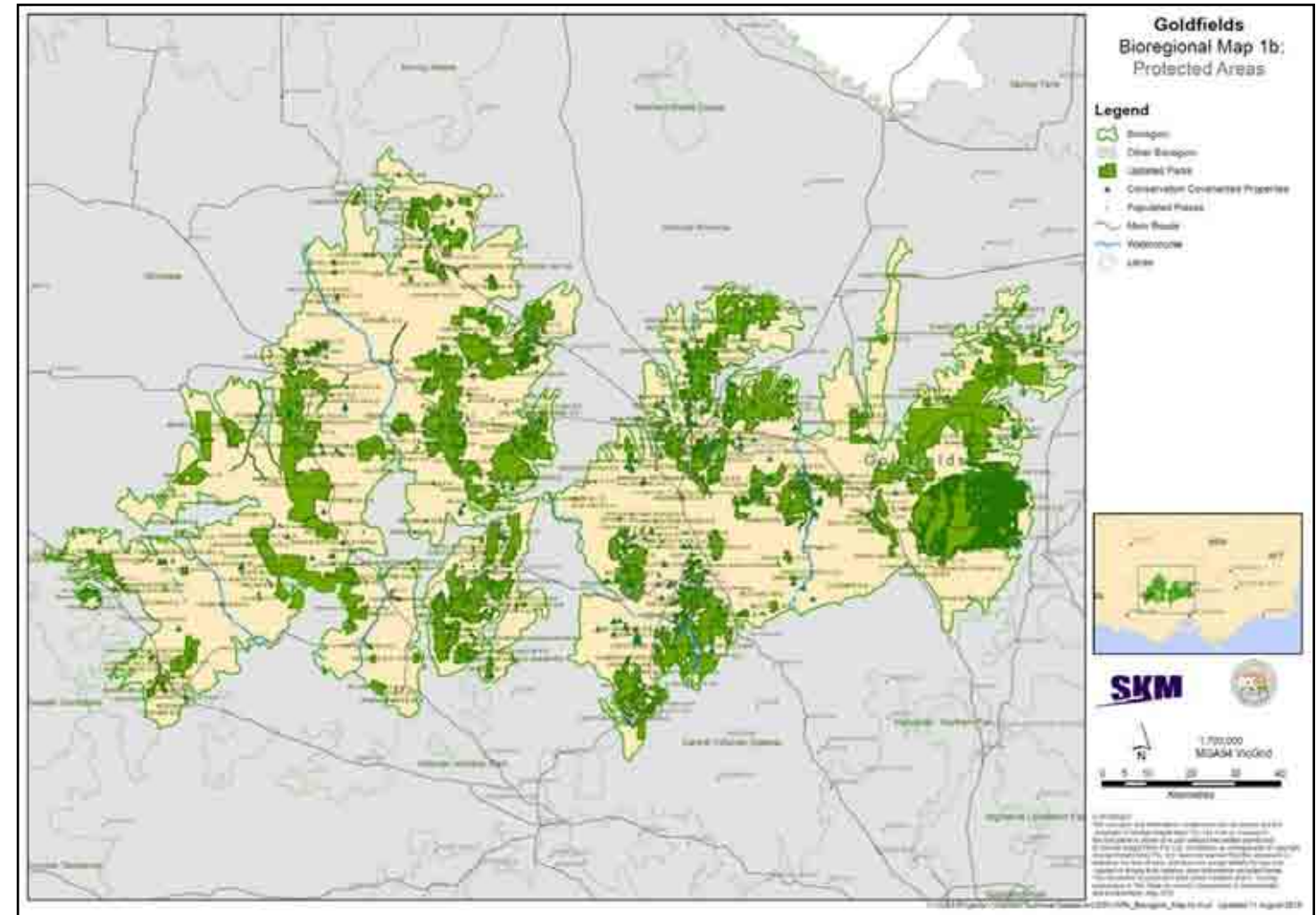


Figure 16-2 Protected Areas – Goldfields

There are no Ramsar sites within the Bioregion, however, the Loddon and Avoca Rivers supply the Kerang Wetlands Ramsar site. The Campaspe River flows through the eastern section of the Bioregion, meeting the Murray River immediately upstream of the Gunbower Forest Ramsar site. Despite important reserves such as the Greater Bendigo National Park, only 17% of the Bioregion is protected within Crown conservation reserves. Of the 68 Ecological Vegetation Classes (EVCs), including mosaics and complexes, 34 are classified as Endangered. EPBC Act listed threatened ecological communities, including a suite of dependent threatened species, are present across the Bioregion include 'Grey Box (*Eucalyptus microcarpa*) Grassy Woodlands and Derived Native Grasslands of South-eastern Australia' and 'White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland', as well as Victorian Flora and Fauna Guarantee (FFG) Act listed communities of flora and fauna: Brush-tailed Phascogale (*Phascogale tapoatafa*), Regent Honeyeater (*Xanthomyza phrygia*), 'Creekline Grassy Woodland (Goldfields) Community', 'Grey Box - Buloke Grassy Woodland Community', 'Northern Plains Grassland Community', and the 'Victorian Temperate Woodland Bird Community'. Much of the soil in the Bioregion, particularly within drainage lines, was heavily disturbed by gold mining, and woodland logging has also had a significant impact. The major land uses today is grazing, and the Loddon Irrigation Scheme running across the eastern half of the Bioregion. The major threats to biodiversity in the Bioregion come from mismanagement of roadside remnants, particularly where this leads to increased fragmentation, as well as inappropriate fire regimes, impacts from pest plants, animals and diseases, and water management in a hotter, drier climate change scenario.

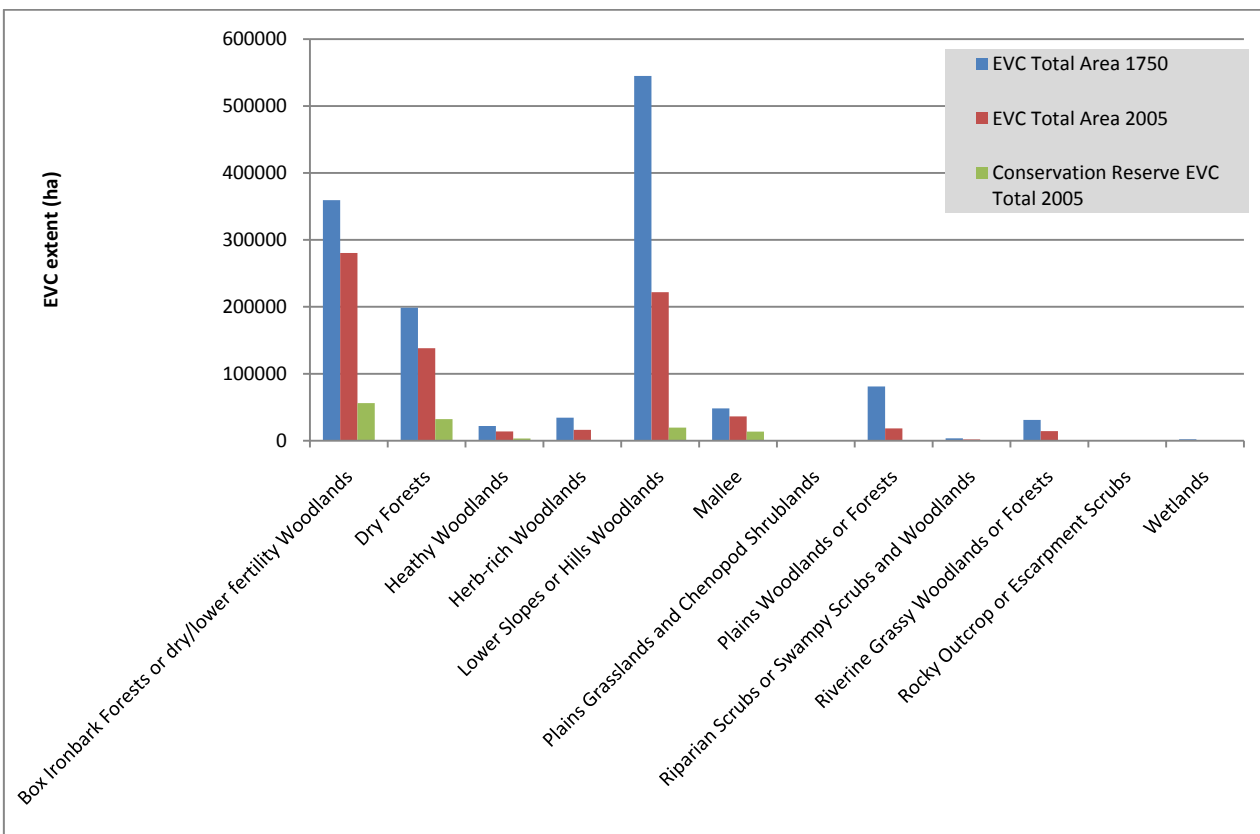
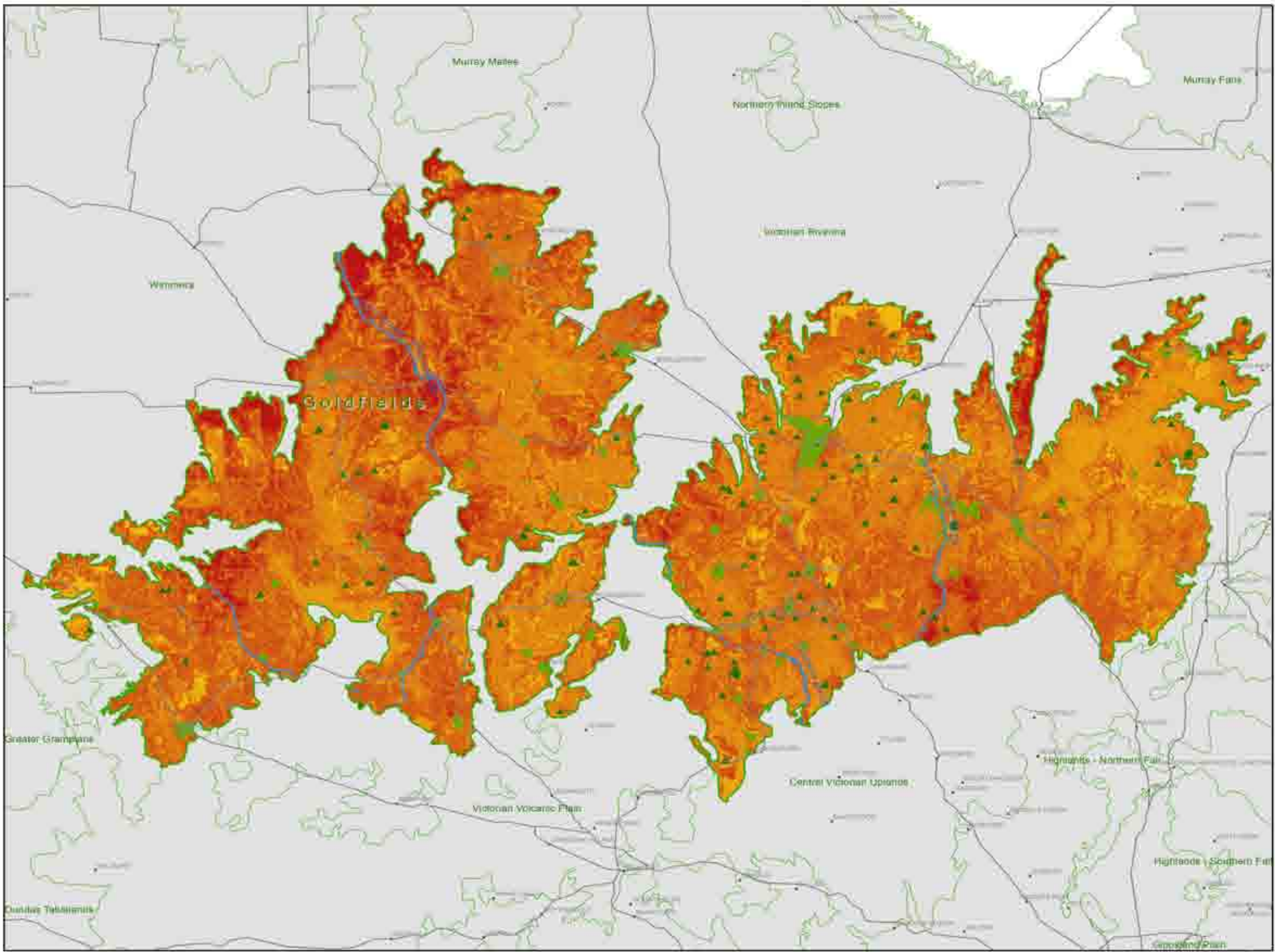


Figure 16-1 EVC Group Breakdown

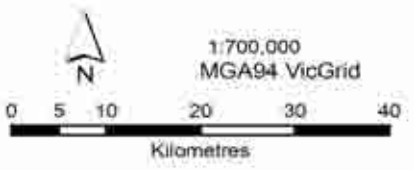
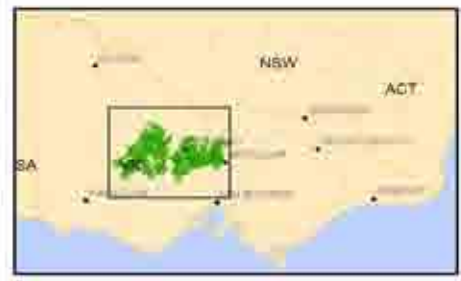


Terrestrial Biodiversity Review



Goldfields Bioregional Map 1a: Landscape Priorities

- Legend**
- Bioregion
 - Other Bioregion
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- Landscape Importance**
- High : 20
- Low : 1



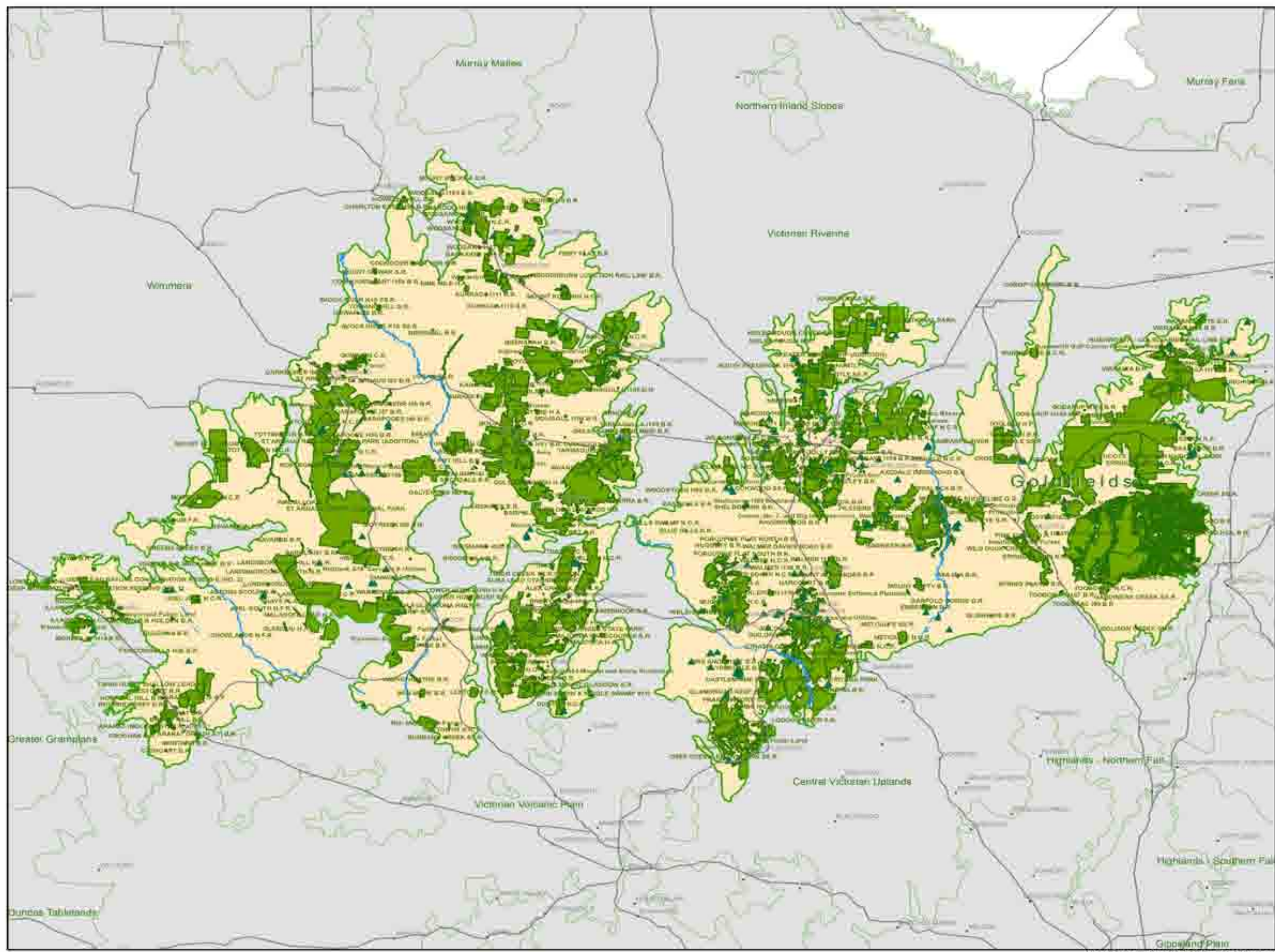
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Terrestrial Biodiversity Review



Goldfields
Bioregional Map 1b:
Protected Areas

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes



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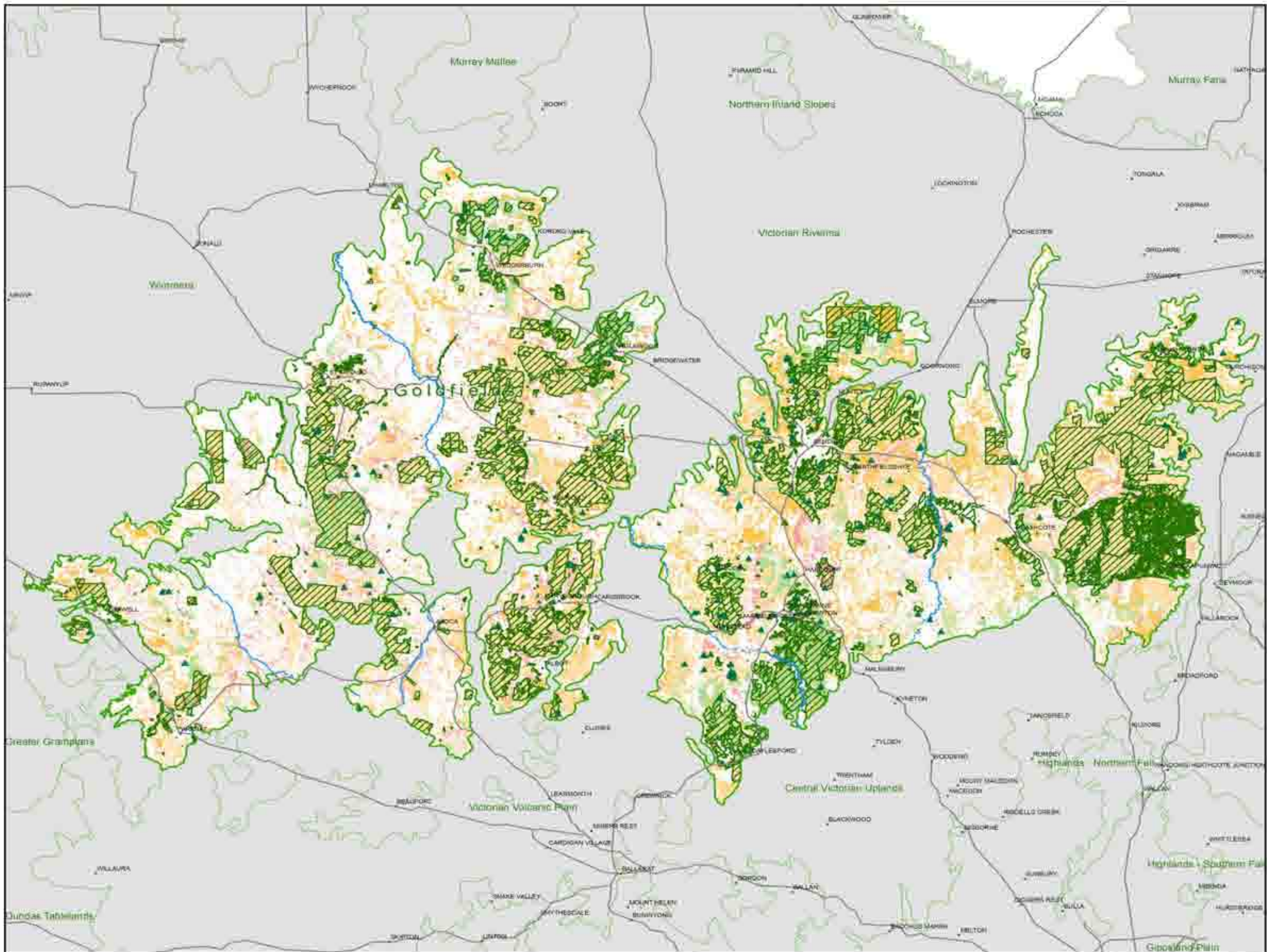
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Terrestrial Biodiversity Review



**Goldfields
Bioregional Map 2a:
Vegetation Conservation
Significance**

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- EVC Bioregional Conservation Status**
- Endangered
 - Vulnerable
 - Depleted
 - Rare
 - Least Concern



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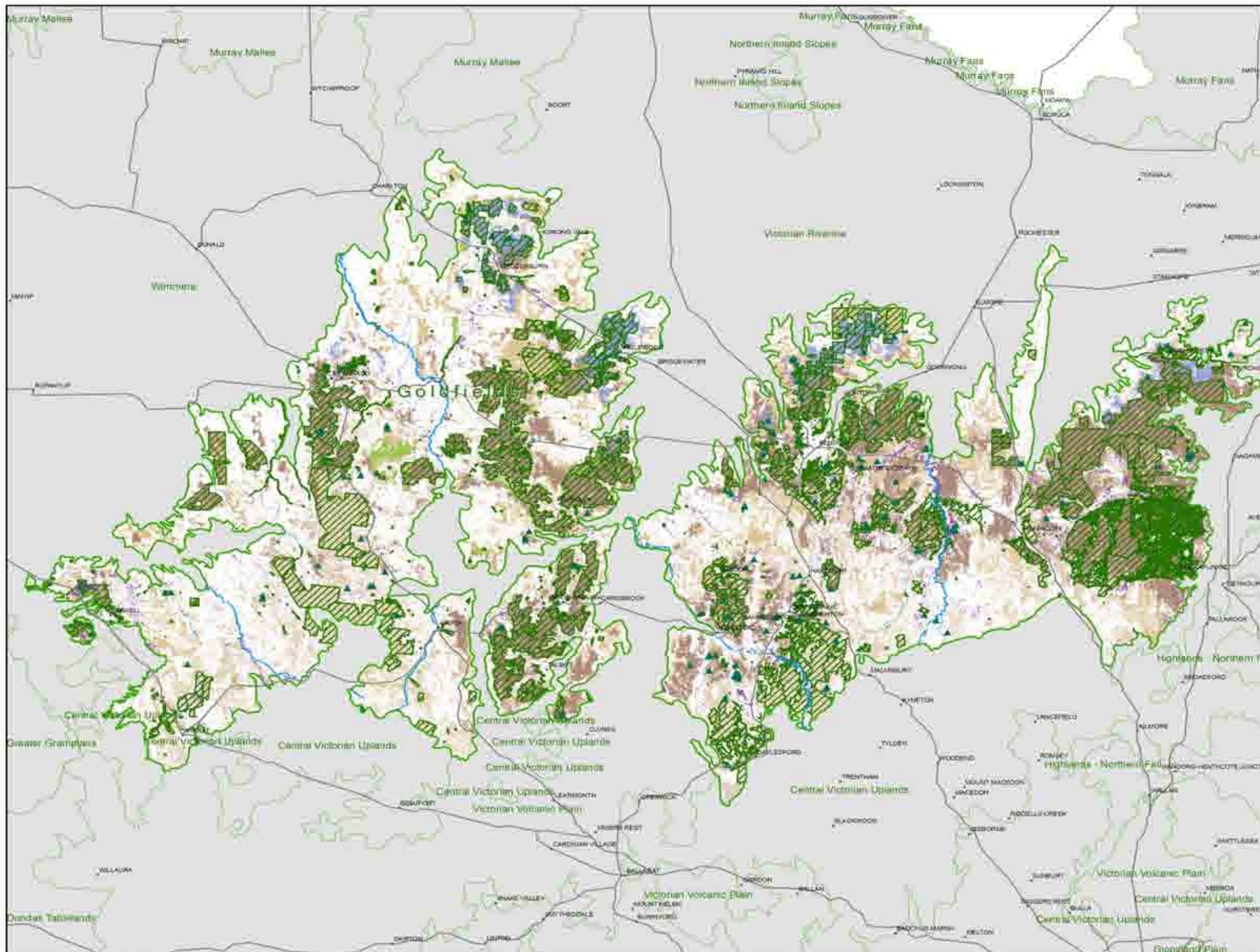
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I:\VWES\Projects\VW04893\Technical\Spatial\ArcGIS\VNPA_Bioregion_Map2a.mxd Updated 13 August 2010

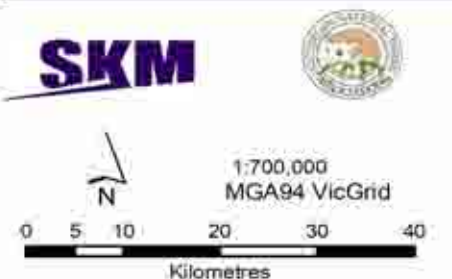


Terrestrial Biodiversity Review



Goldfields
Bioregional Map 2b:
EVC Groups

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- EVC Group**
- Coastal Scrubs Grasslands and Woodlands
 - Healthy Woodlands
 - Lowland Forests
 - Box Ironbark Forests or dry/lower fertility Woodlands
 - Lower Slopes of Hills Woodlands
 - Dry Forests
 - Wet or Damp Forests
 - Riparian Scrubs or Swampy Scrubs and Woodlands
 - Rainforests
 - Montane Grasslands, Shrublands or Woodlands
 - Sub-alpine Grasslands, Shrublands or Woodlands
 - Plains Grasslands and Chenopod Shrublands
 - Plains Woodlands or Forests
 - Riverine Grassy Woodlands or Forests
 - Herb-rich Woodlands
 - Heathlands
 - Mallee
 - Wetlands
 - Salt-tolerant and/or succulent Shrublands
 - Rocky Outcrop or Escarpment Scrubs
 - No native vegetation recorded



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Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Goldfields	3	Damp Sands Herb-rich Woodland	15	Herb-rich Woodlands	Endangered	5	0	0	0	0	0	0	2	0	2	38.1	0.0	0.0
Goldfields	19	Riparian Shrubland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Depleted	13	0	0	0	3	0	0	0	6	9	71.2	0.0	0.0
Goldfields	20	Heathy Dry Forest	6	Dry Forests	Least Concern	98877	21996	14897	36893	6584	0	21996	0	33077	76555	77.4	48.2	37.3
Goldfields	21	Shrubby Dry Forest	6	Dry Forests	Vulnerable	230	0	128	128	14	0	0	0	11	153	66.8	83.6	55.8
Goldfields	22	Grassy Dry Forest	6	Dry Forests	Depleted	66895	8203	9359	17561	3255	0	8203	0	23443	44260	66.2	39.7	26.3
Goldfields	23	Herb-rich Foothill Forest	6	Dry Forests	Depleted	3329	185	1692	1877	290	0	185	0	465	2633	79.1	71.3	56.4
Goldfields	28	Rocky Outcrop Shrubland	20	Rocky Outcrop or Escarpment Scrubs	Least Concern	3	0	0	0	0	0	0	2	0	2	90.9	0.0	0.0
Goldfields	47	Valley Grassy Forest	6	Dry Forests	Vulnerable	21411	1534	1328	2861	930	0	1534	0	7231	11022	51.5	26.0	13.4
Goldfields	48	Heathy Woodland	2	Heathy Woodlands	Depleted	15955	1541	726	2267	199	0	1541	0	6167	8634	54.1	26.3	14.2
Goldfields	53	Swamp Scrub	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	380	5	0	5	4	0	5	0	133	141	37.2	3.7	1.4
Goldfields	55	Plains Grassy Woodland	13	Plains Woodlands or Forests	Endangered	33424	355	119	474	1769	0	355	0	6188	8431	25.2	5.6	1.4
Goldfields	56	Floodplain Riparian Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	4720	46	4	51	370	0	46	0	887	1308	27.7	3.9	1.1
Goldfields	61	Box Ironbark Forest	4	Box Ironbark Forests or dry/lower fertility Woodlands	Depleted	353749	55980	78773	134753	37358	66	56046	0	104854	277030	78.3	48.6	38.1
Goldfields	65	Sedge-rich Woodland	5	Lower Slopes or Hills Woodlands	Endangered	130	3	7	10	0	0	3	0	104	114	87.5	8.6	7.5
Goldfields	67	Alluvial Terraces Herb-rich Woodland	15	Herb-rich Woodlands	Endangered	18115	685	486	1170	1901	0	685	0	5763	8834	48.8	13.2	6.5
Goldfields	68	Creekline Grassy Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	25844	622	199	821	3311	0	622	0	8409	12541	48.5	6.5	3.2
Goldfields	69	Metamorphic Slopes Shrubby Woodland	2	Heathy Woodlands	Depleted	5834	1550	886	2435	12	165	1715	0	2573	5186	88.9	47.0	41.7
Goldfields	70	Hillcrest Herb-rich Woodland	5	Lower Slopes or Hills Woodlands	Depleted	13453	2263	457	2720	1089	416	2679	0	5846	10070	74.9	27.0	20.2
Goldfields	71	Hills Herb-rich Woodland	5	Lower Slopes or Hills Woodlands	Depleted	11234	3648	2	3650	295	0	3648	0	4942	8887	79.1	41.1	32.5
Goldfields	72	Granitic Hills Woodland	4	Box Ironbark Forests or dry/lower fertility Woodlands	Endangered	5728	0	0	0	1172	0	0	0	2245	3417	59.6	0.0	0.0
Goldfields	73	Rocky Outcrop Shrubland/Rocky Outcrop Herbland Mosaic	20	Rocky Outcrop or Escarpment Scrubs	Vulnerable	928	43	0	43	0	0	43	0	177	219	23.7	19.5	4.6
Goldfields	74	Wetland Formation	18	Wetlands	Endangered	858	76	0	76	158	0	76	0	183	416	48.5	18.1	8.8
Goldfields	75	Sandstone Ridge Shrubland/Heathy Woodland Mosaic	17	Mallee	Vulnerable	137	0	135	135	0	0	0	0	0	135	98.0	100.0	98.0
Goldfields	76	Grassy Woodland/Alluvial Terraces Herb-rich Woodland Mosaic	5	Lower Slopes or Hills Woodlands	Endangered	103219	2224	791	3014	1328	0	2224	0	24980	29322	28.4	10.3	2.9
Goldfields	77	Alluvial Terraces Herb-rich Woodland/Plains Grassy Woodland Mosaic	15	Herb-rich Woodlands	Endangered	240	1	0	1	0	0	1	0	83	84	34.9	0.7	0.2
Goldfields	79	Alluvial Terraces Herb-rich Woodland/Heathy Dry Forest Mosaic	15	Herb-rich Woodlands	Vulnerable	4	0	0	0	3	0	0	0	0	3	86.5	0.0	0.0
Goldfields	81	Alluvial Terraces Herb-rich Woodland/Creekline Grassy Woodland Mosaic	15	Herb-rich Woodlands	Vulnerable	13654	141	46	186	658	0	141	0	5759	6603	48.4	2.8	1.4
Goldfields	83	Swampy Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	417	0	0	0	36	0	0	0	130	166	39.7	0.0	0.0
Goldfields	92	Scrub-pine Woodland	17	Mallee	not applicable	5	0	0	0	3	0	0	0	0	3	68.3	0.0	0.0
Goldfields	93	Sandstone Ridge Shrubland	17	Mallee	Least Concern	43332	13519	6268	19787	305	59	13577	0	12820	32971	76.1	60.0	45.7
Goldfields	97	Semi-arid Woodland	13	Plains Woodlands or Forests		384	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Goldfields	104	Lignum Swamp	18	Wetlands	Vulnerable	0	0	0	0	0	0	0	2	0	2	0.0	0.0	0.0
Goldfields	104	Lignum Wetland	18	Wetlands		21	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Goldfields	125	Plains Grassy Wetland	18	Wetlands	Endangered	13	0	0	0	2	0	0	0	0	2	17.8	0.0	0.0
Goldfields	127	Valley Heathy Forest	6	Dry Forests	Endangered	675	0	0	0	29	0	0	0	362	392	58.0	0.0	0.0
Goldfields	132	Plains Grassland	12	Plains Grasslands and Chenopod Shrublands	Endangered	0	0	0	0	1	0	0	0	0	1	0.0	0.0	0.0
Goldfields	132	Plains Grassland	12	Plains Grasslands and Chenopod Shrublands		24	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Goldfields	152	Alluvial Terraces Herb-rich Woodland/Plains Grassy Woodland Complex	15	Herb-rich Woodlands	Endangered	1753	0	0	0	8	0	0	0	356	364	20.8	0.0	0.0
Goldfields	164	Creekline Herb-rich Woodland	15	Herb-rich Woodlands	Endangered	419	0	49	49	84	0	0	0	147	281	67.0	17.6	11.8
Goldfields	175	Grassy Woodland	5	Lower Slopes or Hills Woodlands	Vulnerable	411150	8701	5907	14609	3238	28	8729	0	124139	142013	34.5	10.3	3.6
Goldfields	178	Herb-rich Foothill Forest/Shrubby Foothill Forest Complex	6	Dry Forests	Depleted	8	0	8	8	0	0	0	0	0	8	100.1	99.9	100.0



Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Goldfields	198	Sedgy Riparian Woodland	14	Riverine Grassy Woodlands or Forests	Vulnerable	173	0	86	86	6	0	0	0	40	133	76.6	65.2	49.9
Goldfields	235	Plains Woodland/Herb-rich Gilgai Wetland Mosaic	13	Plains Woodlands or Forests	Endangered	0	3	0	3	1176	0	3	0	196	1374	0.0	0.2	0.0
Goldfields	235	Gilgai Plain Woodland/Wetland Mosaic	13	Plains Woodlands or Forests		1853	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Goldfields	252	Grassy Woodland/Alluvial Terraces Herb-rich Woodland Complex	5	Lower Slopes or Hills Woodlands	Endangered	55	0	0	0	40	0	0	0	0	40	72.8	0.0	0.0
Goldfields	255	Riverine Grassy Woodland/Sedgy Riverine Forest/Wetland Formation Mosaic	14	Riverine Grassy Woodlands or Forests	Depleted	67	0	0	0	63	0	0	0	0	63	94.7	0.0	0.0
Goldfields	257	Sandstone Ridge Shrubland/Box Ironbark Forest Mosaic	17	Mallee	Vulnerable	4584	20	120	140	34	0	20	0	2904	3078	67.2	4.5	3.0
Goldfields	258	Alluvial Terraces Herb-rich Woodland/Plains Woodland/Gilgai Wetland Complex	15	Herb-rich Woodlands	Endangered	0	1	0	1	0	0	1	0	39	40	0.0	1.9	0.0
Goldfields	258	Alluvial Terraces Herb-rich Woodland/Gilgai Plain Woodland/Wetland Complex	15	Herb-rich Woodlands		225	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Goldfields	259	Plains Grassy Woodland/Gilgai Wetland Mosaic	13	Plains Woodlands or Forests	Endangered	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Goldfields	259	Plains Grassy Woodland/Gilgai Wetland Mosaic	13	Plains Woodlands or Forests		13	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Goldfields	261	Plains Grassy Woodland/Creekline Grassy Woodland Mosaic	13	Plains Woodlands or Forests	Endangered	256	0	0	0	0	0	0	163	0	163	63.7	0.0	0.0
Goldfields	263	Plains Grassy Woodland/Plains Grassland/Plains Grassy Wetland Mosaic	13	Plains Woodlands or Forests	Endangered	101	0	0	0	4	0	0	0	32	36	35.3	0.0	0.0
Goldfields	264	Sand Ridge Woodland	13	Plains Woodlands or Forests	Endangered	136	0	0	0	91	0	0	0	0	91	66.9	0.0	0.0
Goldfields	266	Sedge-rich Woodland/Spring Soak Woodland Mosaic	5	Lower Slopes or Hills Woodlands	Endangered	0	0	0	0	0	0	0	0	0	0	100.0	90.1	90.1
Goldfields	267	Plains Grassland/Plains Grassy Woodland/Gilgai Wetland Mosaic	13	Plains Woodlands or Forests	Endangered	17	0	0	0	0	0	0	0	0	0	1.7	0.0	0.0
Goldfields	269	Riparian Shrubland/Swampy Riparian Woodland Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Depleted	1	0	0	0	0	0	0	1	0	1	99.2	0.0	0.0
Goldfields	273	Plains Woodland/Plains Grassland/Gilgai Wetland Mosaic	13	Plains Woodlands or Forests	Endangered	138	0	0	0	0	0	0	10	0	10	7.1	0.0	0.0
Goldfields	282	Shrubby Woodland	2	Heathy Woodlands	Least Concern	1	0	0	0	0	0	0	0	0	0	33.0	0.0	0.0
Goldfields	292	Red Gum Swamp	18	Wetlands	Endangered	0	2	1	3	116	0	2	0	346	464	0.0	0.6	0.0
Goldfields	292	Red Gum Wetland	18	Wetlands		1065	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Goldfields	295	Riverine Grassy Woodland	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	0	0	0	0	0	0	0	1	1	0.0	0.0	0.0
Goldfields	320	Grassy Dry Forest/Heathy Dry Forest Complex	6	Dry Forests	Depleted	6520	160	0	160	0	0	160	0	2655	2815	43.2	5.7	2.5
Goldfields	321	Riverine Chenopod Woodland/Lignum Swamp Mosaic	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	0	0	0	0	0	0	3	0	3	0.0	0.0	0.0
Goldfields	321	Riverine Chenopod Woodland/Lignum Wetland Mosaic	14	Riverine Grassy Woodlands or Forests	x	32	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Goldfields	333	Red Gum Swamp/Plains Grassy Wetland Mosaic	18	Wetlands	Endangered	0	0	0	0	7	0	0	0	0	7	0.0	0.0	0.0
Goldfields	333	Red Gum Wetland/Plains Grassy Wetland Mosaic	18	Wetlands	x	8	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Goldfields	334	Billabong Wetland Aggregate	18	Wetlands	Vulnerable	0	0	0	0	2	0	0	0	0	2	0.0	0.0	0.0
Goldfields	641	Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	680	3	0	3	88	0	3	0	167	258	37.9	1.3	0.5
Goldfields	679	Drainage-line Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	122	0	0	0	7	0	0	0	68	74	61.0	0.0	0.0
Goldfields	694	Sandstone Ridge Shrubland/Low Rises Woodland Mosaic	17	Mallee	Vulnerable	61	0	0	0	0	0	0	21	0	21	34.6	0.0	0.0
Goldfields	697	Grassy Woodland/Alluvial Terraces Herb-rich Woodland Mosaic	5	Lower Slopes or Hills Woodlands	Endangered	601	2224	0	2224	0	0	2224	0	27099	29322	4881.9	7.6	370.2
Goldfields	704	Lateritic Woodland	2	Heathy Woodlands	Endangered	14	10	0	10	0	0	10	0	0	11	76.2	96.0	73.1
Goldfields	711	Shallow Sands Woodland/Plains Sedgy Woodland Mosaic	13	Plains Woodlands or Forests	Vulnerable	1111	559	0	559	2	0	559	0	332	893	80.3	62.6	50.3
Goldfields	802	Grassy Woodland/Heathy Woodland Mosaic	5	Lower Slopes or Hills Woodlands	Vulnerable	4028	73	0	73	28	0	73	0	1755	1857	46.1	4.0	1.8
Goldfields	803	Plains Woodland	13	Plains Woodlands or Forests	Endangered	43527	49	5	54	362	0	49	0	6982	7399	17.0	0.7	0.1
Goldfields	815	Riverine Swampy Woodland	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	0	0	0	0	0	0	2	0	2	0.0	0.0	0.0
Goldfields	851	Stream Bank Shrubland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	1945	155	59	215	293	0	155	0	696	1204	61.9	17.8	11.1
Goldfields	890	Valley Grassy Forest/Creekline Grassy Woodland Mosaic	6	Dry Forests	Endangered	655	0	0	0	63	0	0	0	182	245	37.4	0.1	0.1
Goldfields	894	Scoria Cone Woodland	5	Lower Slopes or Hills Woodlands	Endangered	363	0	0	0	6	0	0	0	36	41	11.3	0.2	0.0
Goldfields	896	Grassy Woodland/Heathy Dry Forest Complex	5	Lower Slopes or Hills Woodlands	Vulnerable	836	0	0	0	0	0	0	0	306	307	36.7	0.0	0.0

Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Goldfields	897	Plains Grassland/Plains Grassy Woodland Mosaic	12	Plains Grasslands and Chenopod Shrublands	Endangered	3	0	0	0	0	0	0	0	0	0	3.7	0.0	0.0
Goldfields	320	Grassy Dry Forest/Heathy Dry Forest Complex	6	Dry Forests	Depleted	6520	160	0	160	0	0	160	0	2655	2815	43.2	5.7	2.5
Goldfields	321	Riverine Chenopod Woodland/Lignum Swamp Mosaic	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	0	0	0	0	0	0	3	0	3	0.0	0.0	0.0
Goldfields	321	Riverine Chenopod Woodland/Lignum Wetland Mosaic	14	Riverine Grassy Woodlands or Forests	x	32	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Goldfields	333	Red Gum Swamp/Plains Grassy Wetland Mosaic	18	Wetlands	Endangered	0	0	0	0	7	0	0	0	0	7	0.0	0.0	0.0
Goldfields	333	Red Gum Wetland/Plains Grassy Wetland Mosaic	18	Wetlands	x	8	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Goldfields	334	Billabong Wetland Aggregate	18	Wetlands	Vulnerable	0	0	0	0	2	0	0	0	0	2	0.0	0.0	0.0
Goldfields	641	Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	680	3	0	3	88	0	3	0	167	258	37.9	1.3	0.5
Goldfields	679	Drainage-line Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	122	0	0	0	7	0	0	0	68	74	61.0	0.0	0.0
Goldfields	694	Sandstone Ridge Shrubland/Low Rises Woodland Mosaic	17	Mallee	Vulnerable	61	0	0	0	0	0	0	21	0	21	34.6	0.0	0.0
Goldfields	697	Grassy Woodland/Alluvial Terraces Herb-rich Woodland Mosaic	5	Lower Slopes or Hills Woodlands	Endangered	601	2224	0	2224	0	0	2224	0	27099	29322	4881.9	7.6	370.2
Goldfields	704	Lateritic Woodland	2	Heathy Woodlands	Endangered	14	10	0	10	0	0	10	0	0	11	76.2	96.0	73.1
Goldfields	711	Shallow Sands Woodland/Plains Sedgy Woodland Mosaic	13	Plains Woodlands or Forests	Vulnerable	1111	559	0	559	2	0	559	0	332	893	80.3	62.6	50.3
Goldfields	802	Grassy Woodland/Heathy Woodland Mosaic	5	Lower Slopes or Hills Woodlands	Vulnerable	4028	73	0	73	28	0	73	0	1755	1857	46.1	4.0	1.8
Goldfields	803	Plains Woodland	13	Plains Woodlands or Forests	Endangered	43527	49	5	54	362	0	49	0	6982	7399	17.0	0.7	0.1
Goldfields	815	Riverine Swampy Woodland	14	Riverine Grassy Woodlands or Forests	Vulnerable	0	0	0	0	0	0	0	2	0	2	0.0	0.0	0.0
Goldfields	851	Stream Bank Shrubland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	1945	155	59	215	293	0	155	0	696	1204	61.9	17.8	11.1
Goldfields	890	Valley Grassy Forest/Creekline Grassy Woodland Mosaic	6	Dry Forests	Endangered	655	0	0	0	63	0	0	0	182	245	37.4	0.1	0.1
Goldfields	894	Scoria Cone Woodland	5	Lower Slopes or Hills Woodlands	Endangered	363	0	0	0	6	0	0	0	36	41	11.3	0.2	0.0
Goldfields	896	Grassy Woodland/Heathy Dry Forest Complex	5	Lower Slopes or Hills Woodlands	Vulnerable	836	0	0	0	0	0	0	0	306	307	36.7	0.0	0.0
Goldfields	897	Plains Grassland/Plains Grassy Woodland Mosaic	12	Plains Grasslands and Chenopod Shrublands	Endangered	3	0	0	0	0	0	0	0	0	0	3.7	0.0	0.0
Total						1,325,761	126,579	122,538	249,116	66,798	733	127,312	206	425,316	742,170	56.0%	17.2%	9.6%



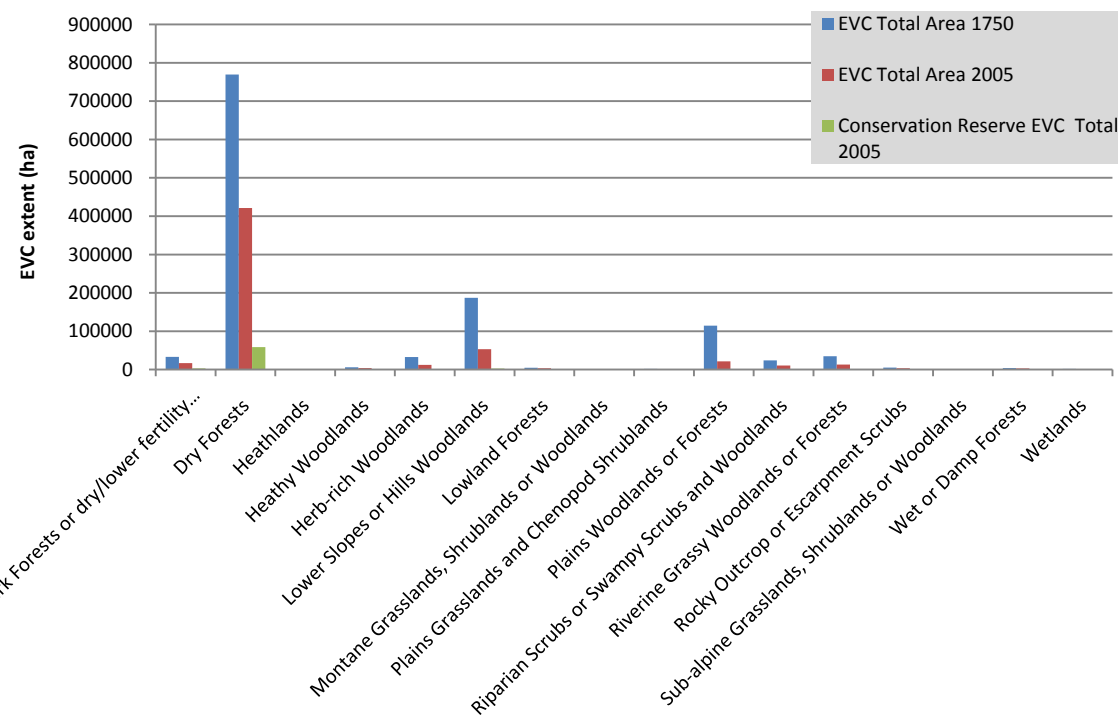
17. Central Victorian Uplands

Bioregion size: 1 217 609 ha
 Native vegetation cover: 562 527 ha (46%)
 Conservation reserve cover (excludes State Forests): 72 461 ha (13%)

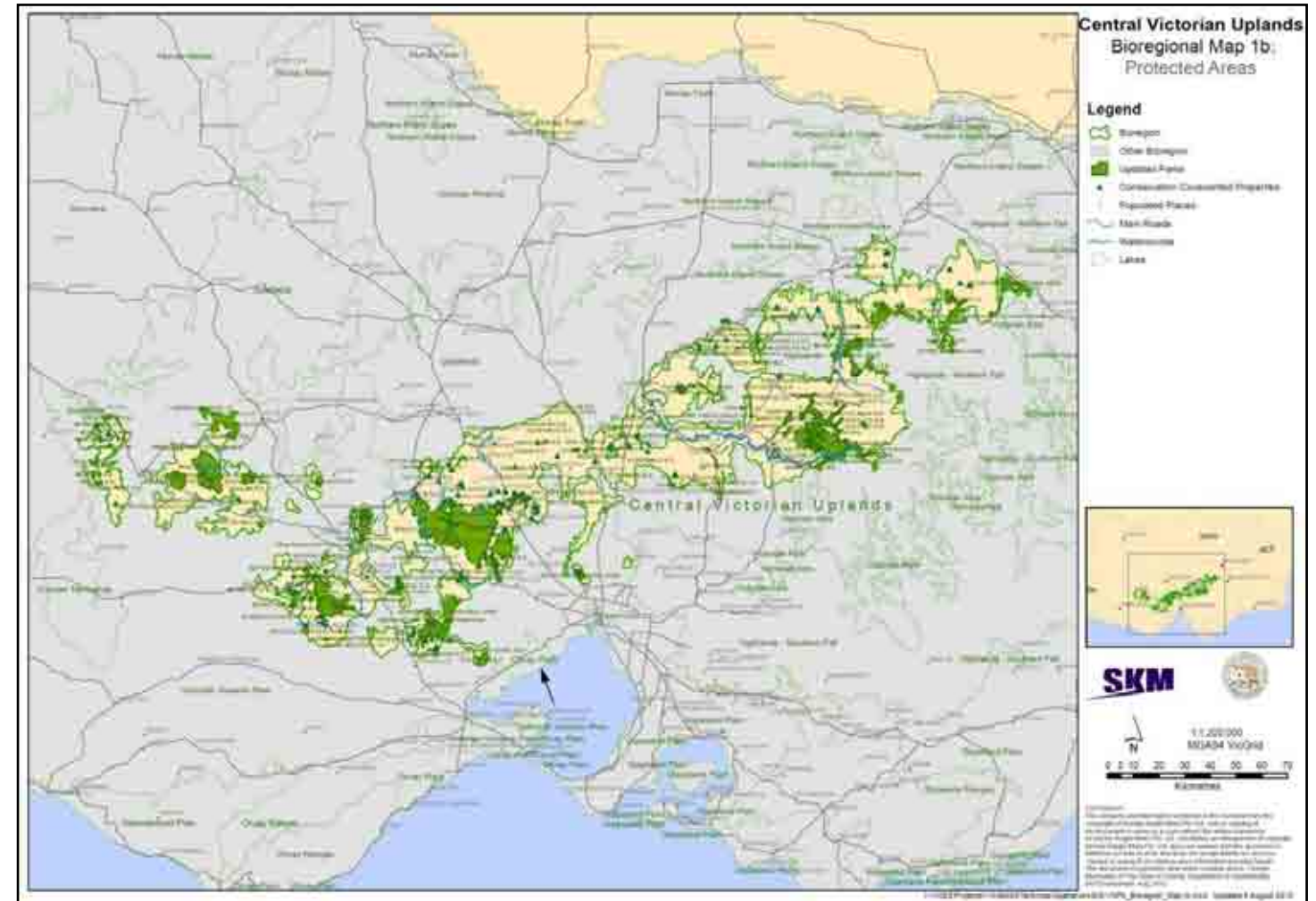
Conservation Priorities

Significant areas of native vegetation in the Bioregion are located on non-conservation public land, mostly in State Forests, and are largely represented by EVCs in the Dry Forests EVC group. Little Endangered EVC remains in the Bioregion. The Bioregion would benefit from increasing the conservation protection for vegetation in State Forests and protected the small areas of Riparian vegetation present to increase connectivity in the fragmented Bioregion.

The Central Victorian Uplands (CVU) Bioregion covers approximately 1.2 million hectares, and spans the centre of Victoria in a narrow band from the eastern slopes of the Grampians through Ballarat, extending to south of Wangaratta. Valleys are typically fertile, with alluvial deposits below less fertile hills and steep peaks and ridges comprised of metamorphic and volcanic rocks. The CVU is mostly located in the Goulburn Broken Catchment, although it also spans areas under the auspices of the Wimmera, Glenelg Hopkins, Corangamite, Port Phillip and Westernport, Goulburn Broken and North East Catchment Management Authority (CMAs). The Bioregion will be represented in four of the five proposed Natural Resource and Catchment Authorities (NRCAs) if proposed CMAs amalgamations proceed in 2011. The Central Victorian Uplands are also known as VM2, a sub-region of the Victorian Midlands Interim Biogeographic Regionalisation of Australia (IBRA) Bioregion.

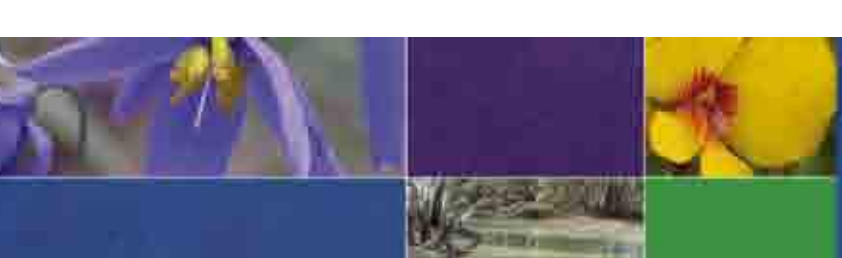


■ Figure 17-1 EVC Group Breakdown

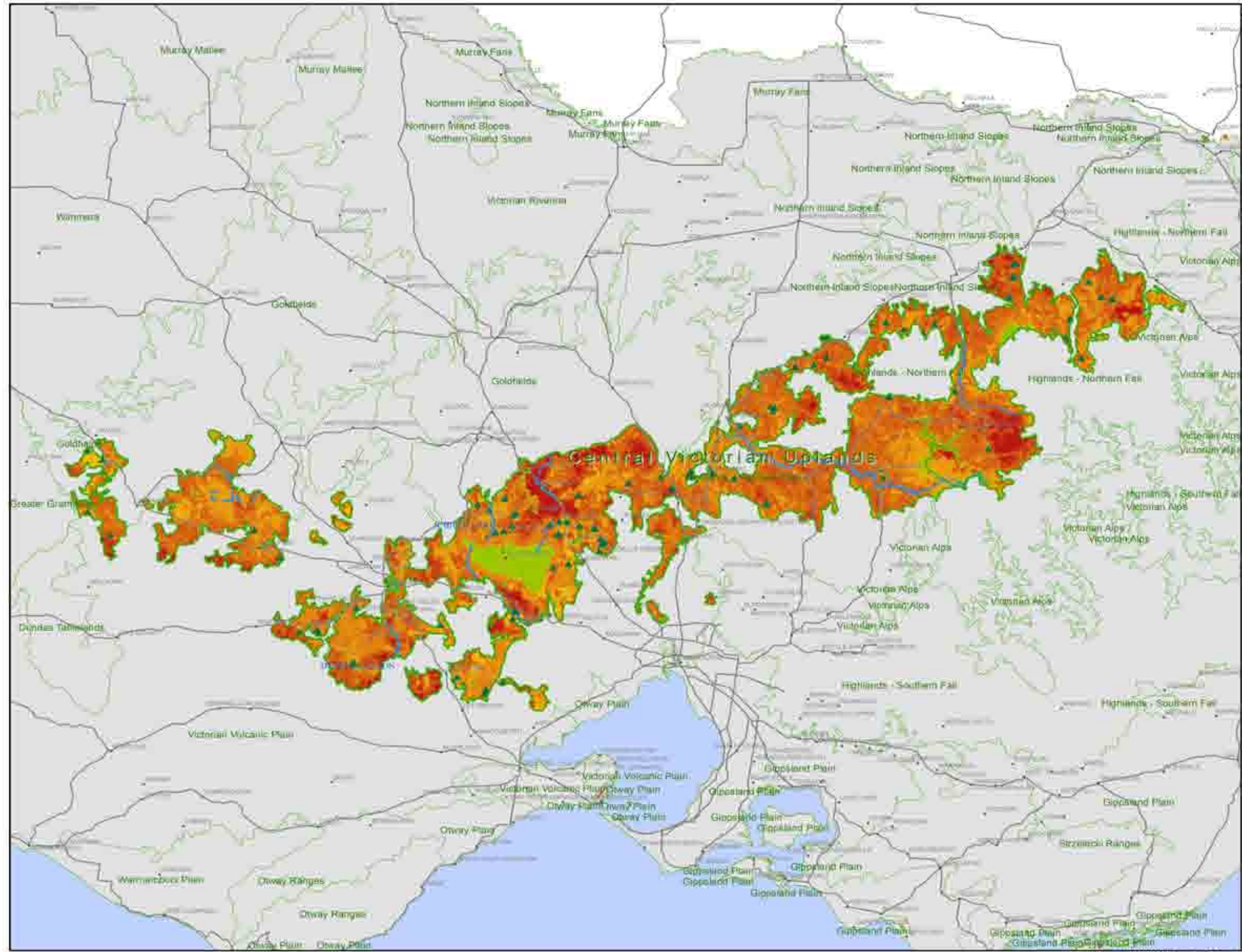


■ Figure 17-2 Protected Areas – Central Victorian Uplands

Lake Eildon National Park and Lerderderg State Park are the largest Crown Conservation Reserves in the Bioregion, although there are a large number of scattered small Nature Conservation Reserves and Bushland Reserves. Generally, the Bioregion supports Grassy or Herb-rich Woodlands in fertile valleys, being replaced by Dry Forests in the less-fertile hills. The Bioregion supports Commonwealth Environment Protection and Biodiversity Conservation (EPBC) Act listed Endangered Grasslands and Grassy Woodland communities, which in-turn, support a large suite of threatened grassland and woodland flora species. There are 90 Ecological Vegetation Class (EVC) Benchmarks and EVC mosaics and complexes for this Bioregion. Of the 90 EVCs, 42 are listed with a Bioregional Conservation Status (BCS) of Endangered. EVCs 803 - Plains Woodland, and 235 - Plains Woodland/Herb-rich Gilgai Wetland Mosaic have BCSs of Endangered, and only 5% of the pre-1750 extent is remaining, all of which is on private land. EVCs 55 - Plains Grassy Woodland, and 175 - Grassy Woodland both have BCS of Endangered, and approximately 20% of the pre-1750 distribution, yet <10% of this remnant vegetation is protected on conservation land. The Brush-tailed Phascogale (*Phascogale tapoatafa*), listed under the State Flora and Fauna Guarantee (FFG) Act, inhabits the Dry Forests of the Bioregion. Grazing pressure continues to be exerted on waterways within this bioregion.



Terrestrial Biodiversity Review



**Central Victorian Uplands
Bioregional Map 1a:
Landscape Priorities**

Legend

- Bioregion
- Other Bioregion
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes

Landscape Importance

High : 20
Low : 1



SKM



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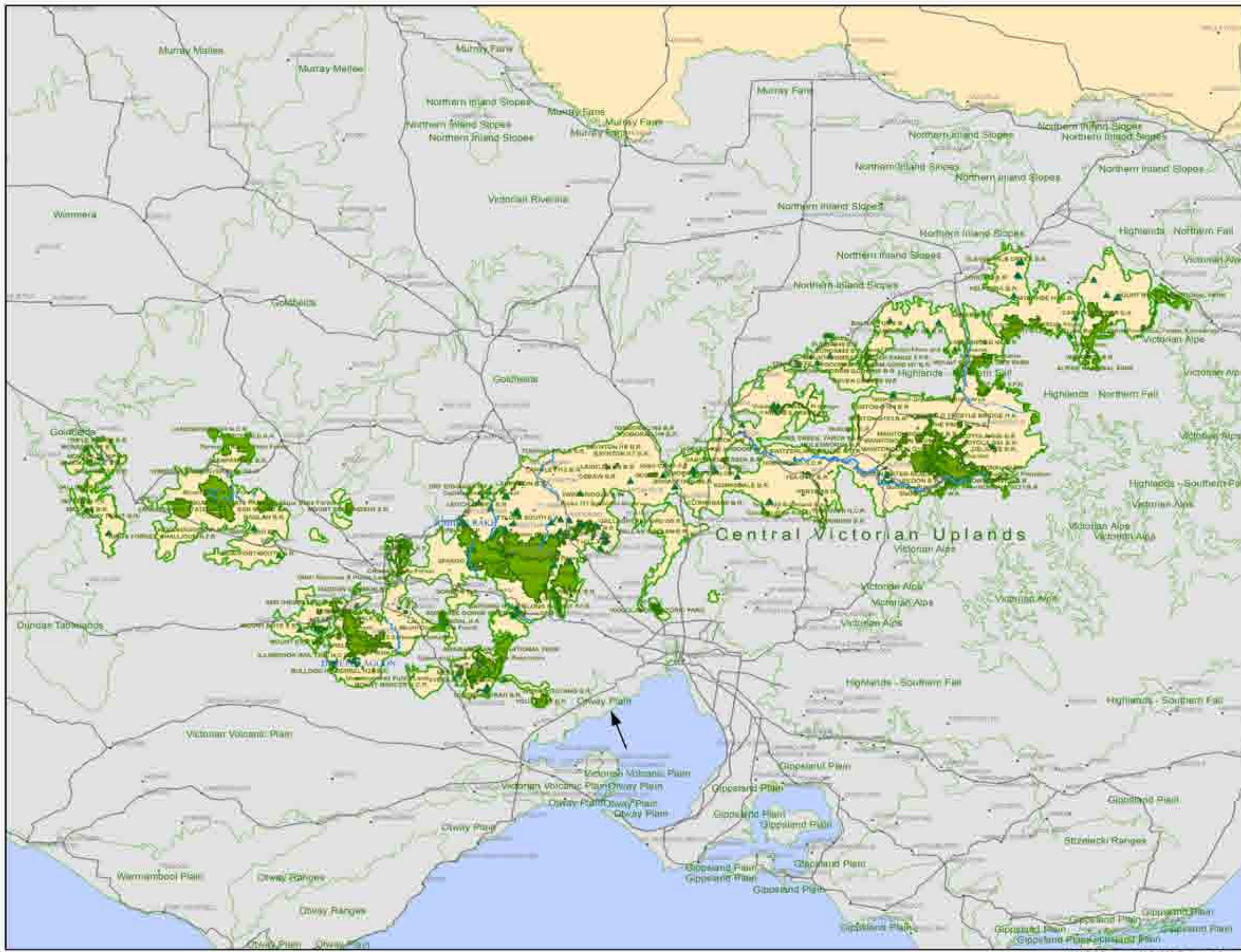
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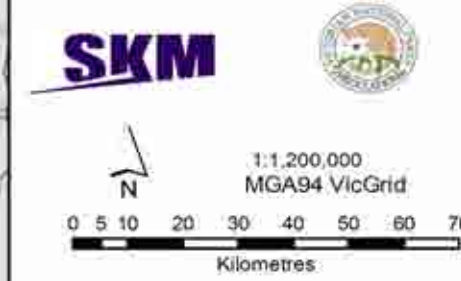


Terrestrial Biodiversity Review



**Central Victorian Uplands
Bioregional Map 1b:
Protected Areas**

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes



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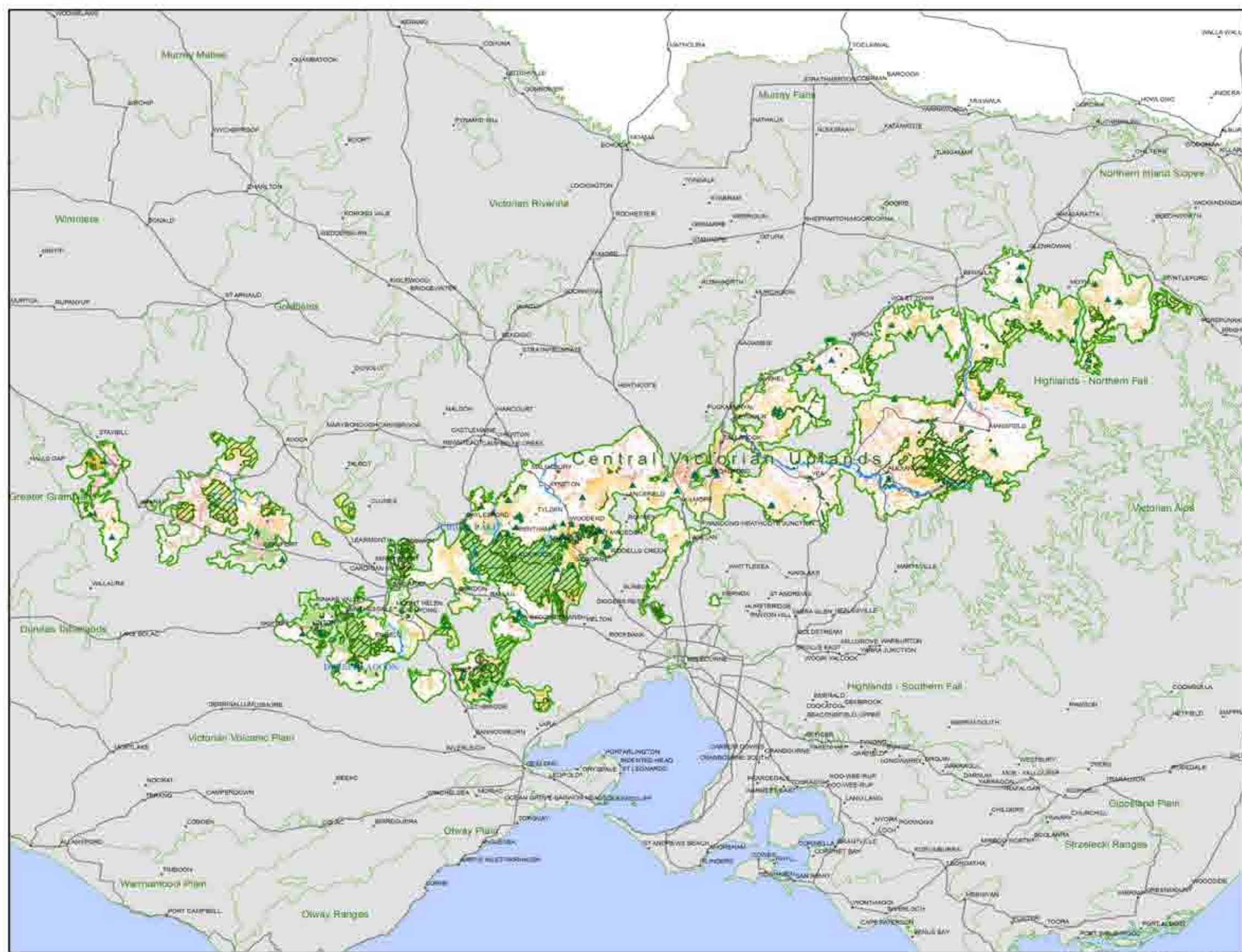
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Terrestrial Biodiversity Review



**Central Victorian Uplands
Bioregional Map 2a:
Vegetation Conservation
Significance**

Legend

- Bioregion
- Other Bioregion
- Updated Parks
- Conservation Covered Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes

EVC Bioregional Conservation Status

- Endangered
- Vulnerable
- Depleted
- Rare
- Least Concern



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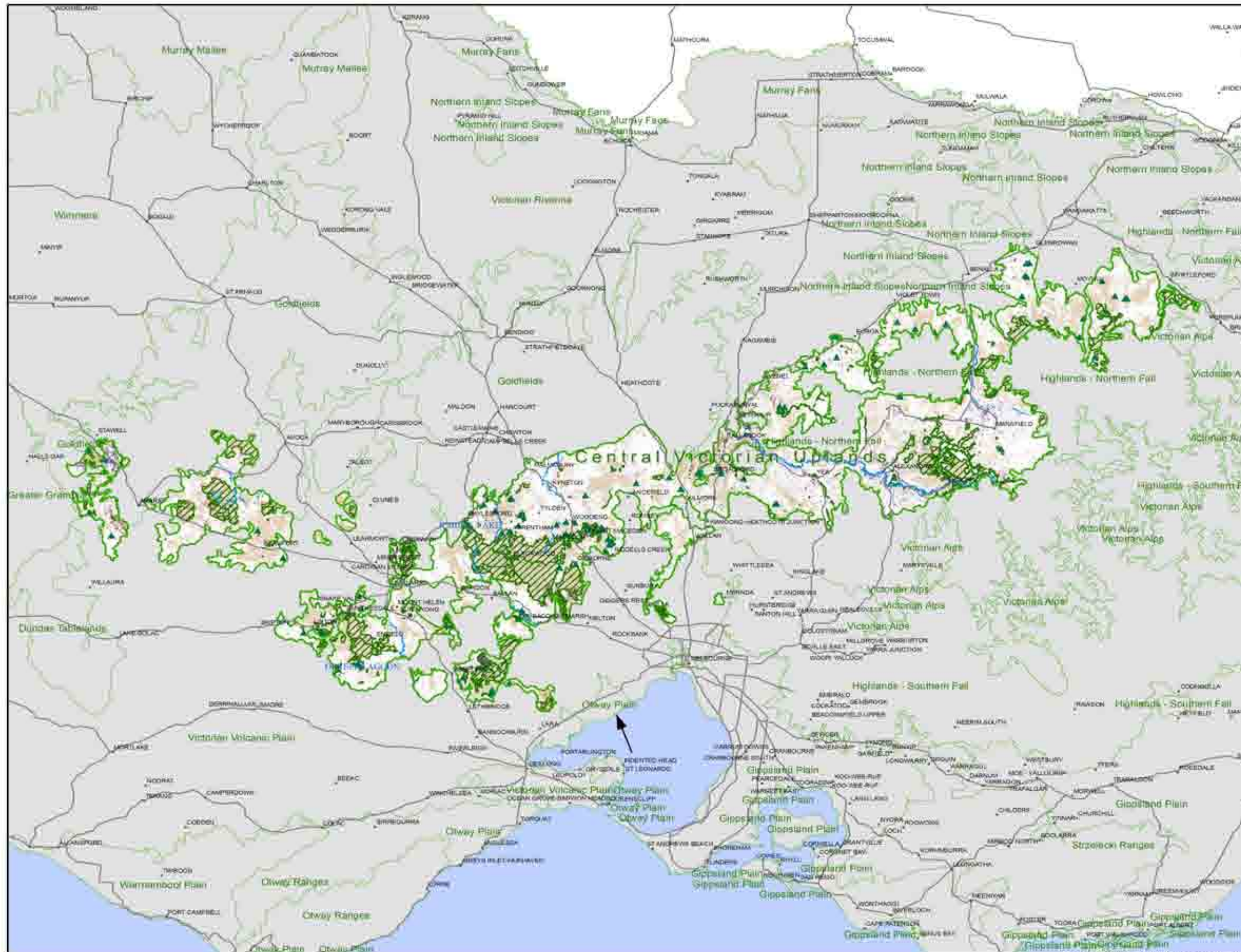
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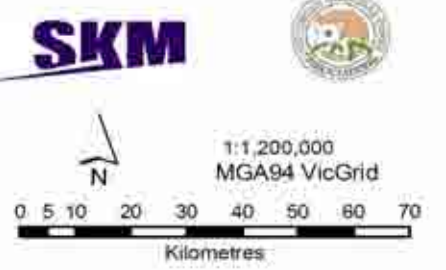


Terrestrial Biodiversity Review



**Central Victorian Uplands
Bioregional Map 2b:
EVC Groups**

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- EVC Group**
- Coastal Scrubs Grasslands and Woodlands
 - Healthy Woodlands
 - Lowland Forests
 - Box Ironbark Forests or dry/lower fertility Woodlands
 - Lower Slopes or Hills Woodlands
 - Dry Forests
 - Wet or Damp Forests
 - Riparian Scrubs or Swampy Scrubs and Woodlands
 - Rainforests
 - Montane Grasslands, Shrublands or Woodlands
 - Sub-alpine Grasslands, Shrublands or Woodlands
 - Plains Grasslands and Chenopod Shrublands
 - Plains Woodlands or Forests
 - Riverine Grassy Woodlands or Forests
 - Herb-rich Woodlands
 - Heathlands
 - Mallee
 - Wetlands
 - Salt-tolerant and/or succulent Shrublands
 - Rocky Outcrop or Escarpment Scrubs
 - No native vegetation recorded



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Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
CVU	3	Damp Sands Herb-rich Woodland	15	Herb-rich Woodlands	Endangered	9690	344	0	344	20	0	344	0	2315	2679	27.6	12.8	3.6
CVU	6	Sand Heathland	16	Heathlands	Least Concern	26	26	0	26	0	0	26	0	0	26	100.0	99.0	99.0
CVU	7	Clay Heathland	16	Heathlands	Vulnerable	12	0	0	0	1	0	0	0	10	11	97.9	0.0	0.0
CVU	16	Lowland Forest	3	Lowland Forests	Least Concern	4505	1127	129	1256	4	0	1127	0	2172	3432	76.2	36.6	27.9
CVU	18	Riparian Forest	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	5155	418	708	1126	728	0	418	0	1517	3371	65.4	33.4	21.8
CVU	19	Riparian Shrubland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	478	333	0	333	5	0	333	0	55	394	82.4	84.7	69.7
CVU	20	Heathy Dry Forest	6	Dry Forests	Least Concern	119530	21192	21543	42735	5108	0	21192	0	38342	86185	72.1	49.6	35.8
CVU	21	Shrubby Dry Forest	6	Dry Forests	Least Concern	10693	5528	1555	7083	277	0	5528	0	2065	9425	88.1	75.1	66.2
CVU	22	Grassy Dry Forest	6	Dry Forests	Depleted	223546	18830	28959	47789	4571	0	18830	0	79918	132278	59.2	36.1	21.4
CVU	23	Herb-rich Foothill Forest	6	Dry Forests	Depleted	148543	6881	23881	30762	3888	0	6881	0	47888	82538	55.6	37.3	20.7
CVU	27	Blackthorn Scrub	20	Rocky Outcrop or Escarpment Scrubs	Rare	103	1	0	1	0	0	1	0	91	92	89.5	1.0	0.9
CVU	28	Rocky Outcrop Shrubland	20	Rocky Outcrop or Escarpment Scrubs	Least Concern	65	0	0	0	0	0	0	62	0	62	94.2	0.0	0.0
CVU	29	Damp Forest	7	Wet or Damp Forests	Least Concern	3122	131	1102	1232	575	0	131	0	815	2622	84.0	47.0	39.5
CVU	30	Wet Forest	7	Wet or Damp Forests	Least Concern	531	49	368	417	15	0	49	0	82	515	96.9	81.0	78.4
CVU	37	Montane Grassy Woodland	10	Montane Grasslands, Shrublands or Woodlands	Vulnerable	11	0	0	0	6	0	0	0	1	8	70.6	0.0	0.0
CVU	44	Sub-alpine Treeless Vegetation	11	Sub-alpine Grasslands, Shrublands or Woodlands	not applicable	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
CVU	45	Shrubby Foothill Forest	6	Dry Forests	Least Concern	38692	3861	26929	30790	693	0	3861	0	4825	36308	93.8	84.8	79.6
CVU	47	Valley Grassy Forest	6	Dry Forests	Vulnerable	202561	2092	2466	4557	1766	0	2092	0	54933	61257	30.2	7.4	2.2
CVU	48	Heathy Woodland	2	Heathy Woodlands	Depleted	5502	952	239	1192	47	0	952	0	2284	3523	64.0	33.8	21.7
CVU	53	Swamp Scrub	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	774	3	0	3	61	0	3	0	184	248	32.0	1.2	0.4
CVU	55	Plains Grassy Woodland	13	Plains Woodlands or Forests	Endangered	110679	785	75	859	978	0	785	0	18858	20696	18.7	4.2	0.8
CVU	56	Floodplain Riparian Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	25358	957	0	957	1673	0	957	0	5245	7875	31.1	12.2	3.8
CVU	61	Box Ironbark Forest	4	Box Ironbark Forests or dry/lower fertility Woodlands	Vulnerable	19102	1948	0	1948	610	0	1948	0	6196	8754	45.8	22.3	10.2
CVU	64	Rocky Chenopod Woodland	4	Box Ironbark Forests or dry/lower fertility Woodlands	Vulnerable	1668	484	0	484	32	0	484	0	408	924	55.4	52.4	29.0
CVU	67	Alluvial Terraces Herb-rich Woodland	15	Herb-rich Woodlands	Endangered	8132	400	135	535	148	0	400	0	3292	3975	48.9	13.5	6.6
CVU	68	Creekline Grassy Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	5510	35	8	43	658	0	35	0	1610	2312	42.0	1.9	0.8
CVU	70	Hillcrest Herb-rich Woodland	5	Lower Slopes or Hills Woodlands	Depleted	39	4	0	4	0	0	4	0	34	38	97.2	10.2	9.9
CVU	71	Hills Herb-rich Woodland	5	Lower Slopes or Hills Woodlands	Vulnerable	18398	2037	208	2244	712	0	2037	0	8121	11077	60.2	20.3	12.2
CVU	72	Granitic Hills Woodland	4	Box Ironbark Forests or dry/lower fertility Woodlands	Depleted	10673	388	6	394	614	0	388	0	5073	6081	57.0	6.5	3.7
CVU	73	Rocky Outcrop Shrubland/Rocky Outcrop Herbland Mosaic	20	Rocky Outcrop or Escarpment Scrubs	Least Concern	847	504	80	585	2	0	504	0	156	742	87.6	78.8	69.0
CVU	74	Wetland Formation	18	Wetlands	Endangered	737	1	0	1	0	0	1	0	207	208	28.2	0.4	0.1
CVU	76	Grassy Woodland/Alluvial Terraces Herb-rich Woodland Mosaic	5	Lower Slopes or Hills Woodlands	Endangered	596	0	0	0	2	0	0	0	141	143	24.0	0.0	0.0
CVU	80	Spring Soak Woodland	5	Lower Slopes or Hills Woodlands	Endangered	38	1	0	1	0	0	1	0	19	20	53.5	3.9	2.1
CVU	81	Alluvial Terraces Herb-rich Woodland/Creekline Grassy Woodland Mosaic	15	Herb-rich Woodlands	Endangered	333	6	0	6	0	0	6	0	191	197	59.1	2.8	1.7
CVU	82	Riverine Escarpment Scrub	20	Rocky Outcrop or Escarpment Scrubs	Endangered	1773	37	0	37	1	0	37	0	381	420	23.7	8.9	2.1
CVU	83	Swampy Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	4871	7	0	7	122	0	7	0	955	1084	22.2	0.6	0.1
CVU	84	Riparian Forest/Swampy Riparian Woodland/Riparian Shrubland/Riverine Escarpment Scrub Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	1120	45	41	86	120	0	45	0	120	327	29.2	26.5	7.7
CVU	125	Plains Grassy Wetland	18	Wetlands	Endangered	237	0	0	0	0	0	0	68	0	68	28.6	0.0	0.0
CVU	126	Swampy Riparian Complex	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	5243	8	0	8	74	0	8	0	1701	1783	34.0	0.5	0.2
CVU	127	Valley Heathy Forest	6	Dry Forests	Vulnerable	2905	12	0	12	2	0	12	0	1183	1198	41.2	1.0	0.4



Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
CVU	128	Grassy Forest	6	Dry Forests	Vulnerable	10073	14	8	21	104	0	14	0	4316	4441	44.1	0.5	0.2
CVU	132	Plains Grassland	12	Plains Grasslands and Chenopod Shrublands	Endangered	511	2	0	2	21	0	2	0	91	114	22.2	1.4	0.3
CVU	134	Sand Forest	2	Heathy Woodlands	Endangered	53	3	0	3	0	0	3	0	28	31	58.5	9.5	5.6
CVU	136	Sedge Wetland	18	Wetlands	Vulnerable	9	7	0	7	0	0	7	0	2	9	100.0	81.0	81.0
CVU	152	Alluvial Terraces Herb-rich Woodland/Plains Grassy Woodland Complex	15	Herb-rich Woodlands	Endangered	7028	18	0	18	56	0	18	0	1681	1755	25.0	1.0	0.3
CVU	164	Creekline Herb-rich Woodland	15	Herb-rich Woodlands	Vulnerable	7555	517	385	902	395	0	517	0	2437	3735	49.4	24.2	11.9
CVU	168	Drainage-line Aggregate	14	Riverine Grassy Woodlands or Forests	Endangered	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
CVU	172	Floodplain Wetland Aggregate	18	Wetlands	Endangered	0	0	0	0	0	0	0	1	0	1	0.0	0.0	0.0
CVU	174	Grassy Dry Forest/Rocky Outcrop Shrubland/Rocky Outcrop Hermland Mosaic	6	Dry Forests	Depleted	1016	62	0	62	0	0	62	0	352	415	40.8	15.0	6.1
CVU	175	Grassy Woodland	5	Lower Slopes or Hills Woodlands	Endangered	136645	614	29	643	609	0	614	0	30622	31874	23.3	2.0	0.5
CVU	176	Heathy Dry Forest/Grassy Woodland Complex	6	Dry Forests	Endangered	187	0	0	0	0	0	0	20	0	20	10.7	0.0	0.0
CVU	177	Valley Slopes Dry Forest	6	Dry Forests	Least Concern	14	12	0	12	0	0	12	0	2	14	100.0	84.4	84.4
CVU	178	Herb-rich Foothill Forest/Shrubby Foothill Forest Complex	6	Dry Forests	Depleted	6347	0	3267	3267	353	0	0	0	847	4467	70.4	73.1	51.5
CVU	191	Riparian Scrub	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	22	0	0	0	0	0	0	16	0	16	75.4	0.0	0.0
CVU	195	Seasonally Inundated Shrubby Woodland	5	Lower Slopes or Hills Woodlands	Depleted	11	11	0	11	0	0	11	0	0	11	100.0	100.0	100.0
CVU	198	Sedgy Riparian Woodland	14	Riverine Grassy Woodlands or Forests	Depleted	3281	63	1116	1180	224	0	63	0	1068	2473	75.4	47.7	36.0
CVU	213	Valley Grassy Forest/Box Ironbark Forest Complex	6	Dry Forests		69	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
CVU	235	Plains Woodland/Herb-rich Gilgai Wetland Mosaic	13	Plains Woodlands or Forests	Endangered	0	0	0	0	0	0	0	0	86	86	0.0	0.1	0.0
CVU	235	Gilgai Plain Woodland/Wetland Mosaic	13	Plains Woodlands or Forests		1626	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
CVU	237	Riparian Forest/Swampy Riparian Woodland Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	470	0	0	0	4	0	0	0	121	125	26.6	0.0	0.0
CVU	238	Plains Grassy Woodland/Creekline Grassy Woodland/Floodplain Riparian Woodland Mosaic	13	Plains Woodlands or Forests		60	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
CVU	240	Plains Grassy Woodland/Creekline Grassy Woodland/Wetland Formation Mosaic	13	Plains Woodlands or Forests		8	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
CVU	241	Valley Grassy Forest/Plains Grassy Woodland Complex	6	Dry Forests	Vulnerable	738	0	0	0	0	0	0	121	0	121	16.4	0.0	0.0
CVU	244	Granitic Hills Woodland/Rocky Outcrop Shrubland/Rocky Outcrop Hermland Mosaic	4	Box Ironbark Forests or dry/lower fertility Woodlands	Depleted	172	0	0	0	0	0	0	38	0	38	22.0	0.0	0.0
CVU	245	Granitic Hills Woodland/Heathy Dry Forest Mosaic	4	Box Ironbark Forests or dry/lower fertility Woodlands	Depleted	12	0	0	0	0	0	0	1	0	1	7.5	0.0	0.0
CVU	247	Box Ironbark Forest/Grassy Woodland Complex	4	Box Ironbark Forests or dry/lower fertility Woodlands	Vulnerable	210	0	0	0	0	0	0	0	75	76	36.0	0.0	0.0
CVU	248	Grassy Dry Forest/Granitic Hills Woodland Complex	6	Dry Forests	Depleted	392	0	0	0	0	0	0	130	0	130	33.2	0.0	0.0
CVU	250	Floodplain Riparian Woodland/Plains Grassy Woodland Mosaic	14	Riverine Grassy Woodlands or Forests	Endangered	704	1	0	1	8	0	1	0	170	178	25.4	0.5	0.1
CVU	255	Riverine Grassy Woodland/Sedgy Riverine Forest/Wetland Formation Mosaic	14	Riverine Grassy Woodlands or Forests		18	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
CVU	261	Plains Grassy Woodland/Creekline Grassy Woodland Mosaic	13	Plains Woodlands or Forests	Endangered	273	0	0	0	0	0	0	140	0	140	51.2	0.0	0.0
CVU	262	Grassy Woodland/Box Ironbark Forest Complex	4	Box Ironbark Forests or dry/lower fertility Woodlands	Endangered	1391	1	0	1	0	0	1	0	858	859	61.8	0.1	0.1
CVU	263	Plains Grassy Woodland/Plains Grassland/Plains Grassy Wetland Mosaic	13	Plains Woodlands or Forests	Endangered	173	0	0	0	0	0	0	69	0	69	39.6	0.0	0.0
CVU	265	Valley Grassy Forest/Grassy Dry Forest Mosaic	6	Dry Forests	Vulnerable	0	0	0	0	0	0	0	0	149	149	0.0	0.0	0.0
CVU	265	Valley Grassy Forest/Grassy Dry Forest Mosaic	6	Dry Forests		252	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
CVU	268	Valley Grassy Forest/Grassy Woodland Complex	6	Dry Forests	Vulnerable	356	0	0	0	0	0	0	88	0	88	24.7	0.0	0.0
CVU	269	Riparian Shrubland/Swampy Riparian Woodland Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	140	0	0	0	11	0	0	0	54	65	46.0	0.0	0.0
CVU	272	Swampy Riparian Woodland/Spring Soak Woodland Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	54	0	0	0	0	0	0	27	0	27	50.8	0.0	0.0
CVU	274	Grassy Woodland/Plains Grassy Woodland Complex	5	Lower Slopes or Hills Woodlands	Endangered	51	0	0	0	1	0	0	0	5	6	11.7	0.0	0.0
CVU	282	Shrubby Woodland	2	Heathy Woodlands	Rare	221	220	0	220	0	0	220	0	0	221	100.0	99.8	99.8



Terrestrial Biodiversity Review

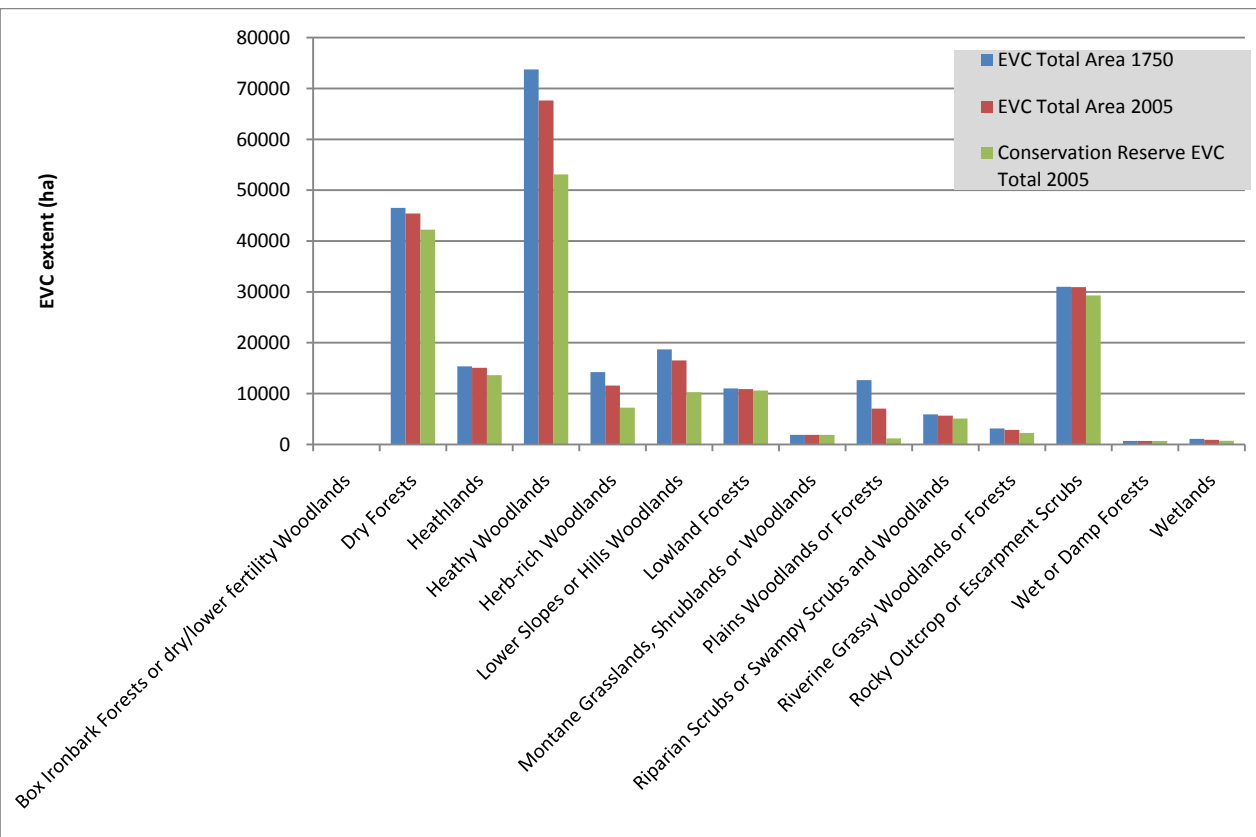
BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
CVU	292	Red Gum Swamp	18	Wetlands	Endangered	0	0	0	0	6	0	0	0	52	59	0.0	0.0	0.0
CVU	292	Red Gum Wetland	18	Wetlands		357	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
CVU	293	Riparian Forest/Creekline Grassy Woodland Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	155	1	0	1	9	0	1	0	75	85	54.5	1.3	0.7
CVU	320	Grassy Dry Forest/Heathy Dry Forest Complex	6	Dry Forests	Depleted	3359	0	1540	1540	37	0	0	0	836	2412	71.8	63.8	45.8
CVU	351	Rocky Outcrop Shrubland/Rocky Outcrop Hermland/Grassy Dry Forest Complex	20	Rocky Outcrop or Escarpment Scrubs	Least Concern	2130	806	641	1447	6	0	806	0	490	1942	91.2	74.5	67.9
CVU	641	Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	1675	3	0	3	50	0	3	0	370	423	25.2	0.8	0.2
CVU	647	Plains Sedgy Wetland	18	Wetlands	Endangered	238	9	0	9	0	0	9	0	55	64	26.8	13.7	3.7
CVU	691	Aquatic Hermland/Plains Sedgy Wetland Mosaic	18	Wetlands	Endangered	61	40	0	40	0	0	40	0	11	51	83.9	78.8	66.1
CVU	693	Plains Woodland/Plains Grassland Mosaic	13	Plains Woodlands or Forests	Endangered	0	0	0	0	0	0	0	0	11	11	0.0	0.0	0.0
CVU	693	Plains Woodland/Plains Grassland Mosaic	13	Plains Woodlands or Forests		23	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
CVU	803	Plains Woodland	13	Plains Woodlands or Forests	Endangered	65	0	0	0	0	0	0	5	0	5	8.3	0.0	0.0
CVU	851	Stream Bank Shrubland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	3624	580	55	635	401	0	580	0	1286	2322	64.1	27.4	17.5
CVU	859	Montane Grassy Woodland/Rocky Outcrop Shrubland/Rocky Outcrop Hermland Mosaic	10	Montane Grasslands, Shrublands or Woodlands	Vulnerable	9	0	0	0	9	0	0	0	0	9	100.0	0.0	0.0
CVU	882	Shallow Sands Woodland	13	Plains Woodlands or Forests	Vulnerable	17	0	0	0	0	0	0	16	0	16	96.8	0.0	0.0
CVU	894	Scoria Cone Woodland	5	Lower Slopes or Hills Woodlands	Endangered	1120	0	0	0	1	0	0	0	423	424	37.8	0.0	0.0
CVU	895	Escarpment Shrubland	13	Plains Woodlands or Forests	Endangered	1353	1	0	1	2	0	1	0	447	450	33.2	0.1	0.0
CVU	896	Grassy Woodland/Heathy Dry Forest Complex	5	Lower Slopes or Hills Woodlands	Endangered	30171	47	38	85	242	0	47	0	9116	9443	31.3	0.9	0.3
CVU	897	Plains Grassland/Plains Grassy Woodland Mosaic	12	Plains Grasslands and Chenopod Shrublands	Endangered	1311	0	0	0	1	0	0	0	7	8	0.6	3.7	0.0
CVU	937	Swampy Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	0	1	0	1	8	0	1	0	120	129	0.0	0.7	0.0
CVU	1040	Riverine Grassy Woodland/Riverine Swampy Woodland Mosaic	14	Riverine Grassy Woodlands or Forests	Endangered	0	0	0	0	0	0	0	6	0	6	0.0	0.0	0.0
CVU	1085	Mountain Valley Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	0	0	0	0	11	0	0	0	12	23	0.0	0.0	0.0
Total						1,217,609	72,461	115,510	187,971	26,082	0	72,461	809	347,666	562,527	46.2%	12.9%	6.0%

18. Greater Grampians

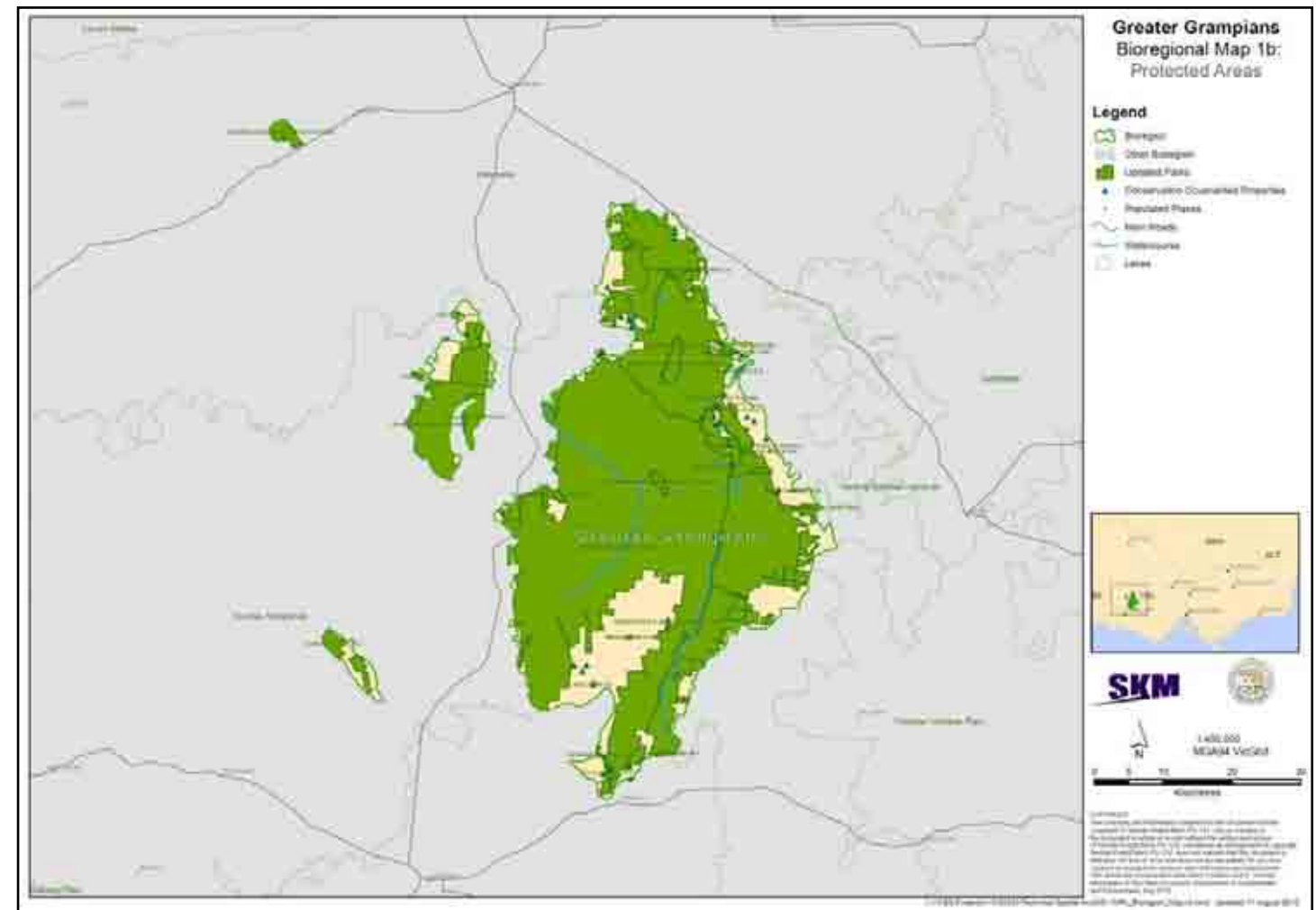
Bioregion size: 237 351 ha
 Native vegetation cover: 217 160 ha (92%)
 Conservation reserve cover (excludes State Forests): 178 278 ha (82%)

Approximately 82% of the remaining native vegetation is already under conservation protection and little unprotected vegetation, approximately 6700 ha in total, is present on non-conservation public land. Conservation efforts can be focused on maintaining or protecting areas that are known to provide habitat for threatened species, such as the EPBC listed Spiny Rice-flower.

The Greater Grampians (GGr) Bioregion covers approximately 237 351 ha of western Victoria, and consists of the main hilly area between Horsham and Hamilton, as well as three (3) smaller outliers at Dundas Range, Black Range and Mt. Arapiles. The GGr is characterised by tall weathering-resistant sandstone ridges rising out of the plains of the Dundas Tablelands, support acidic yellow texture contrast, and shallow sandy soils. The GGr is also classified in the Interim Bioregionalisation of Australia (IBRA) as sub-region VM3. The Bioregion falls under the jurisdiction of both the Glenelg Hopkins Catchment Management Authority (CMA) and Wimmera CMAs, which in 2011, are planned to become the Western Districts Natural Resources and Catchment Authority (NRCA), and Wimmera-Mallee NRCA, respectively. The GGr has a history of logging and limited quarrying and grazing, however, due to difficult or unproductive terrain, less than 10% of the Bioregion has been cleared since European arrival.

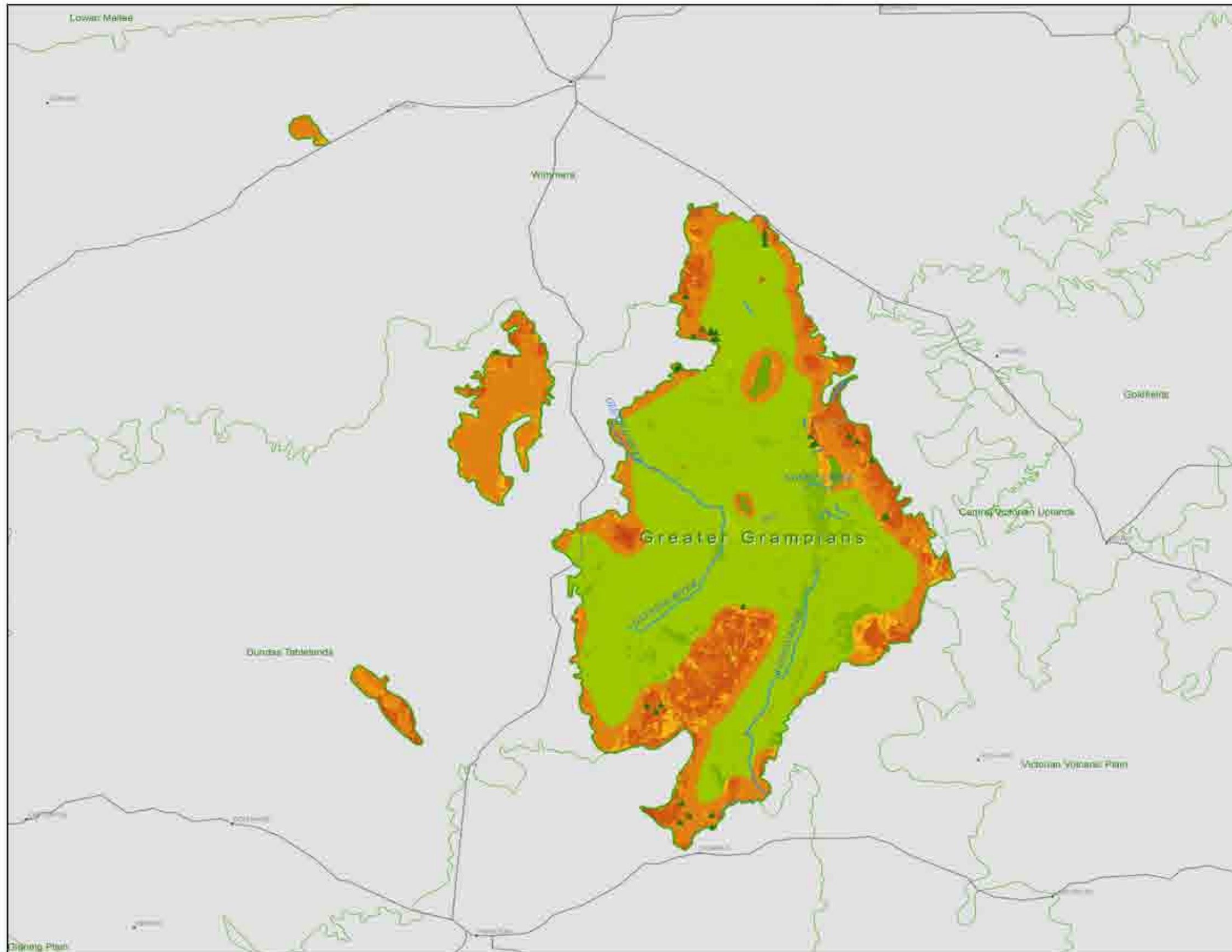


■ Figure 18-1 EVC Group Breakdown



■ Figure 18-2 Protected Areas – Greater Grampians

Vegetation in the Grampians is highly represented in the Victorian reserve system, and 82% of the remnant vegetation is protected within conservation land. Major parks present include the Grampians National Park, Black Range State Park, and Mount Arapiles-Tooan State Park. The Black Range Bioregional outlier is almost entirely within the Black Range Scenic Reserve. Almost 1/3 of the state's indigenous flora can be found within the Grampians National Park. The GGr is host to over 98 threatened flora species, including the Commonwealth Environment Protection and Biodiversity Conservation (EPBC) Act listed, Critically Endangered Spiny Rice-flower (*Pimelea spinescens*). Over 50 threatened fauna species, notably including the Act listed Heath-rat (*Pseudomys shortridgei*), Smoky Mouse (*Pseudomys fumeus*), Striped Legless Lizard (*Delma impar*), Growling Grass Frog (*Litoria raniformis*), Southern Brown Bandicoot (*Isoodon obesulus obesulus*), and Long-nosed Potoroo (*Potorus tridactylus*). Although historically recorded in parks and reserves within the GGr, and with potential habitat persisting, Brush-tailed Rock-wallabies (*Petrogale penicillata*) are thought to have become regionally extinct. Major threats to biodiversity in the GGr include inappropriate fire regimes (particularly considering likely climate change scenarios), pest plants animals and diseases, poorly managed tourism, and the unknown impacts of existing water harvesting.



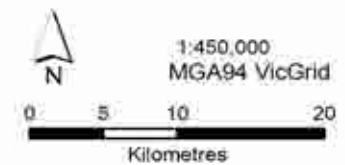
**Greater Grampians
Bioregional Map 1a:
Landscape Priorities**

Legend

- Bioregion
 - Other Bioregion
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- Landscape Importance**
- High : 20
 - Low : 1



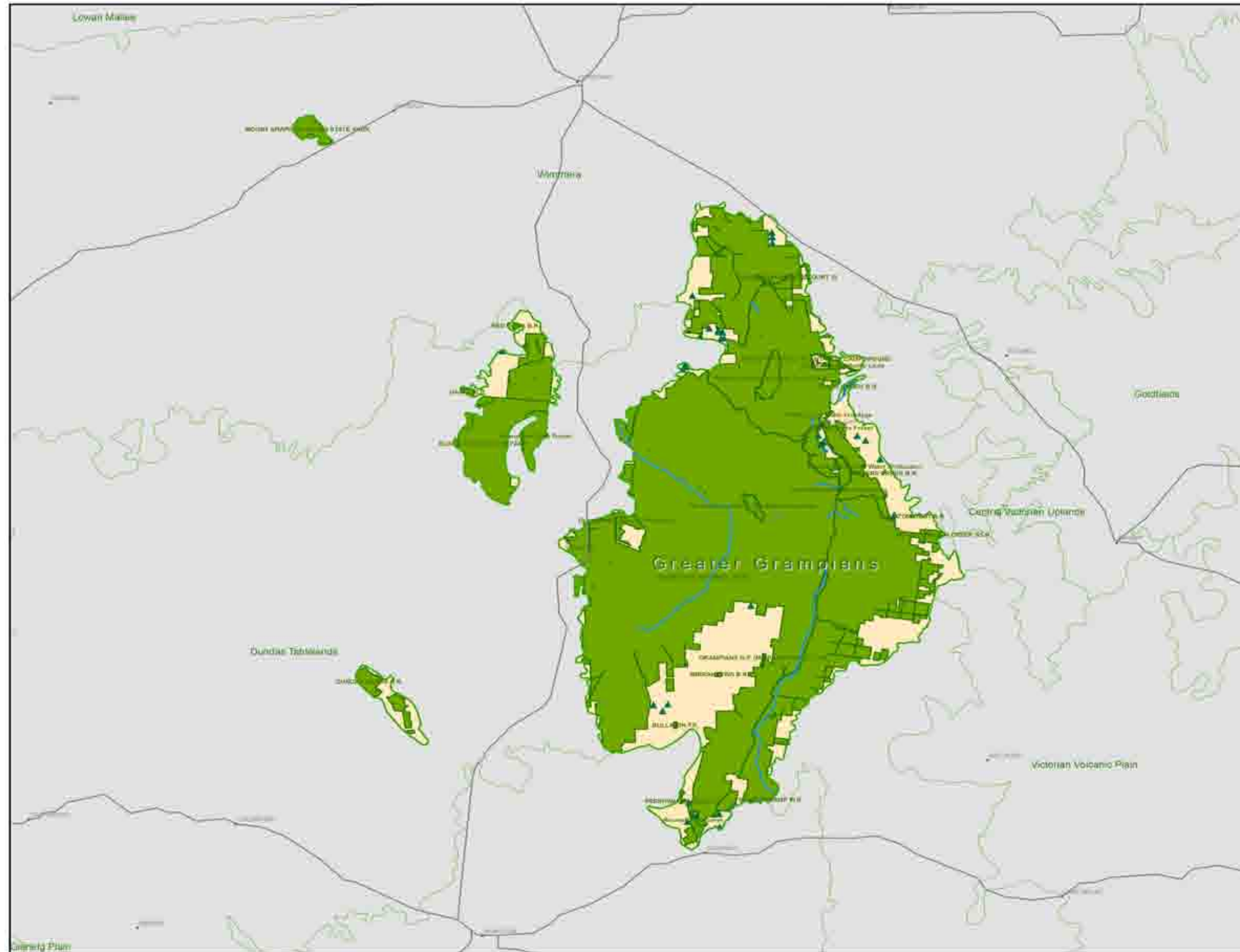
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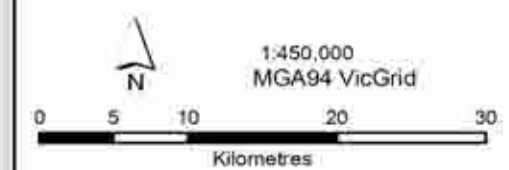




**Greater Grampians
Bioregional Map 1b:
Protected Areas**

Legend

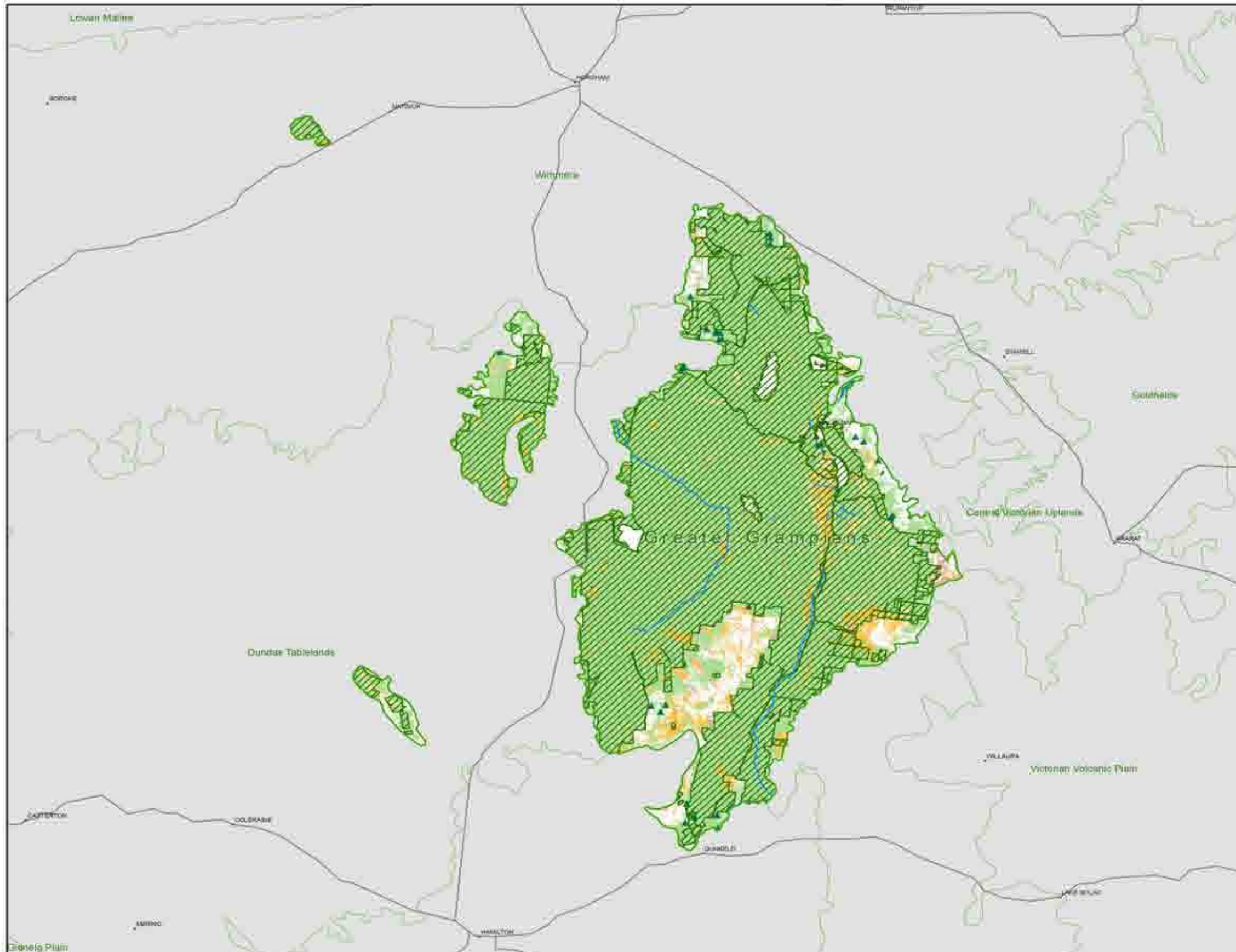
- Bioregion
- Other Bioregion
- Updated Parks
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes



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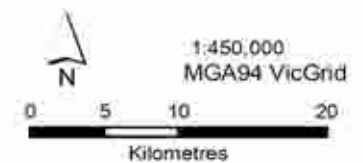
Greater Grampians Bioregional Map 2a: Vegetation Conservation Significance

Legend

- Bioregion
- Other Bioregion
- Updated Parks
- Conservation Covenant Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes

EVC Bioregional Conservation Status

- Endangered
- Vulnerable
- Depleted
- Rare
- Least Concern

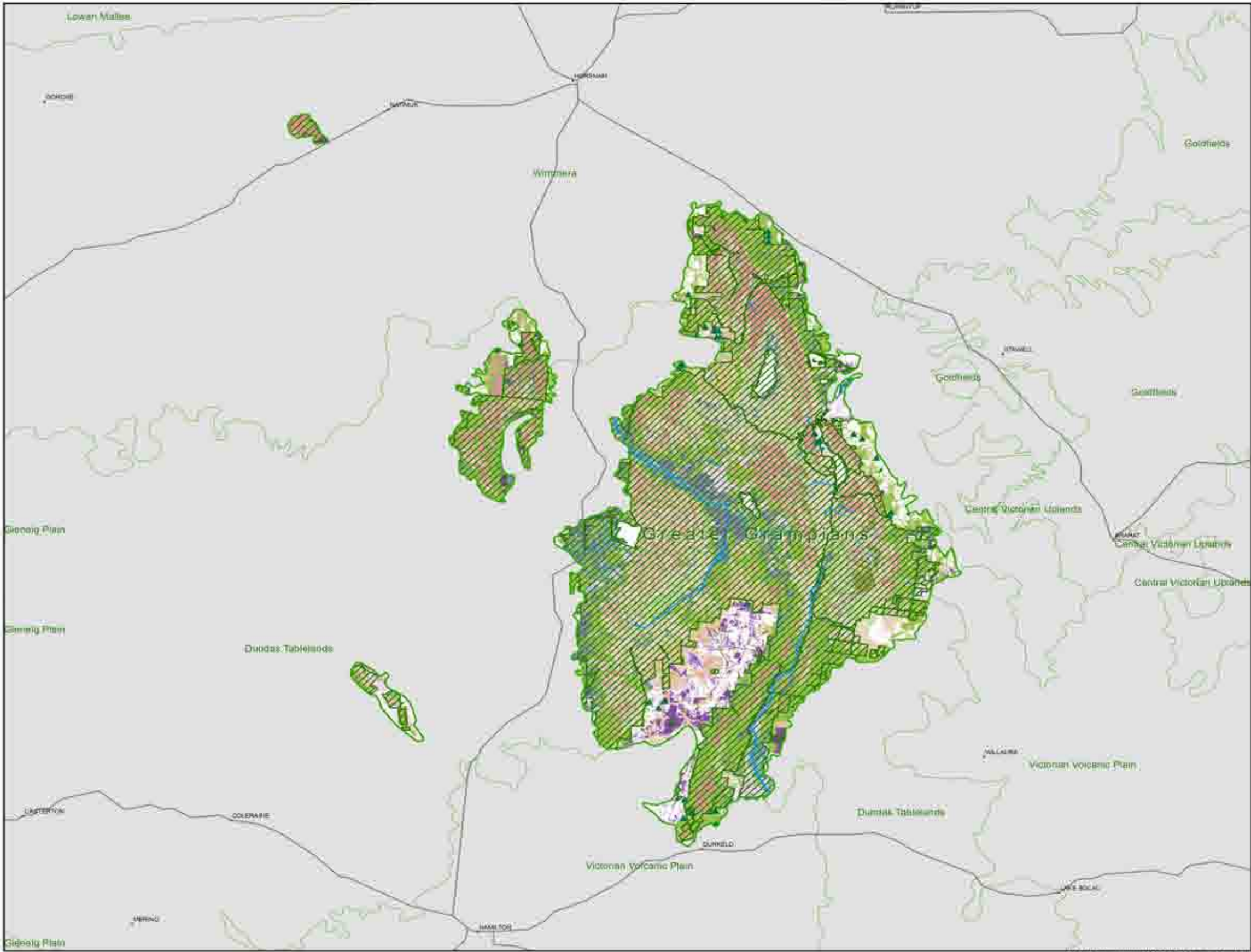
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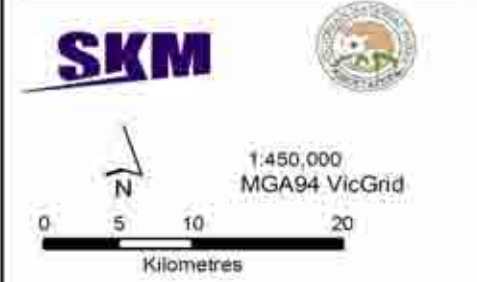


Terrestrial Biodiversity Review



Greater Grampians Bioregional Map 2b: EVC Groups

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- EVC Group**
- Coastal Scrubs, Grasslands and Woodlands
 - Healthy Woodlands
 - Lowland Forests
 - Box Ironbark Forests or dry/lower fertility Woodlands
 - Lower Slopes or Hills Woodlands
 - Dry Forests
 - Wet or Damp Forests
 - Riparian Scrubs or Swampy Scrubs and Woodlands
 - Rainforests
 - Montane Grasslands, Shrublands or Woodlands
 - Sub-alpine Grasslands, Shrublands or Woodlands
 - Plains Grasslands and Chenopod Shrublands
 - Plains Woodlands or Forests
 - Riverine Grassy Woodlands or Forests
 - Herb-rich Woodlands
 - Heathlands
 - Mallee
 - Wetlands
 - Salt-tolerant and/or succulent Shrublands
 - Rocky Outcrop or Escarpment Scrubs
 - No native vegetation recorded



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Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
G Grampians	3	Damp Sands Herb-rich Woodland	15	Herb-rich Woodlands	Least Concern	10471	5126	39	5165	284	0	5126	0	2979	8429	80.5	61.3	49.3
G Grampians	6	Sand Heathland	16	Heathlands	Least Concern	11650	10232	526	10758	44	0	10232	0	689	11491	98.6	93.6	92.3
G Grampians	8	Wet Heathland	16	Heathlands	Vulnerable	1346	1124	0	1124	21	0	1124	0	68	1213	90.2	92.6	83.5
G Grampians	16	Lowland Forest	3	Lowland Forests	Least Concern	8769	8682	0	8682	8	0	8682	0	40	8730	99.6	99.4	99.0
G Grampians	18	Riparian Forest	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Depleted	156	150	0	150	0	0	150	0	7	156	100.0	95.8	95.8
G Grampians	19	Riparian Shrubland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	61	60	0	60	0	0	60	0	1	61	100.0	97.8	97.8
G Grampians	20	Heathy Dry Forest	6	Dry Forests	Least Concern	30046	29047	169	29216	122	0	29047	0	521	29859	99.4	97.8	97.2
G Grampians	22	Grassy Dry Forest	6	Dry Forests	Depleted	2271	1803	0	1803	8	0	1803	0	389	2200	96.9	81.9	79.4
G Grampians	23	Herb-rich Foothill Forest	6	Dry Forests	Depleted	1179	1088	0	1088	14	0	1088	0	73	1175	99.7	92.6	92.3
G Grampians	28	Rocky Outcrop Shrubland	20	Rocky Outcrop or Escarpment Scrubs	Least Concern	13931	12681	633	13315	12	0	12681	0	583	13910	99.9	95.7	95.6
G Grampians	29	Damp Forest	7	Wet or Damp Forests	Least Concern	302	298	0	298	0	0	298	0	4	302	100.0	98.6	98.6
G Grampians	30	Wet Forest	7	Wet or Damp Forests	Least Concern	167	162	0	162	0	0	162	0	5	167	100.0	97.2	97.2
G Grampians	37	Montane Grassy Woodland	10	Montane Grasslands, Shrublands or Woodlands	Least Concern	3	3	0	3	0	0	3	0	0	3	100.0	100.0	100.0
G Grampians	45	Shrubby Foothill Forest	6	Dry Forests	Least Concern	4169	4169	0	4169	0	0	4169	0	0	4169	100.0	100.0	100.0
G Grampians	47	Valley Grassy Forest	6	Dry Forests	Vulnerable	6572	4080	0	4080	33	0	4080	0	1641	5754	87.5	70.9	62.1
G Grampians	48	Heathy Woodland	2	Heathy Woodlands	Least Concern	58269	43853	2085	45939	401	0	43853	0	8135	54475	93.5	84.3	78.8
G Grampians	53	Swamp Scrub	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	6	0	0	0	0	0	0	1	0	1	20.9	0.0	0.0
G Grampians	55	Plains Grassy Woodland	13	Plains Woodlands or Forests	Vulnerable	11133	866	566	1432	75	0	866	0	4431	5938	53.3	24.1	12.9
G Grampians	67	Alluvial Terraces Herb-rich Woodland	15	Herb-rich Woodlands	Least Concern	1065	836	45	881	1	0	836	0	154	1036	97.2	85.0	82.7
G Grampians	68	Creekline Grassy Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	642	1	0	1	24	0	1	0	441	466	72.7	0.2	0.2
G Grampians	71	Hills Herb-rich Woodland	5	Lower Slopes or Hills Woodlands	Least Concern	12307	7354	66	7420	34	0	7354	0	3918	11371	92.4	65.2	60.3
G Grampians	73	Rocky Outcrop Shrubland/Rocky Outcrop Herland Mosaic	20	Rocky Outcrop or Escarpment Scrubs	Least Concern	6020	5804	4	5808	1	0	5804	0	173	5981	99.3	97.1	96.5
G Grampians	77	Alluvial Terraces Herb-rich Woodland/Plains Grassy Woodland Mosaic	15	Herb-rich Woodlands	Endangered	21	15	0	15	0	0	15	0	5	20	96.8	76.5	74.1
G Grampians	125	Plains Grassy Wetland	18	Wetlands	Endangered	20	0	0	0	0	0	0	2	0	2	9.9	0.0	0.0
G Grampians	134	Sand Forest	2	Heathy Woodlands	Endangered	864	34	37	72	9	0	34	0	483	564	65.2	12.7	8.3
G Grampians	136	Sedge Wetland	18	Wetlands	Endangered	354	258	21	279	2	0	258	0	42	323	91.2	86.4	78.8
G Grampians	152	Alluvial Terraces Herb-rich Woodland/Plains Grassy Woodland Complex	15	Herb-rich Woodlands	Endangered	5	3	1	4	0	0	3	0	0	5	100.0	92.4	92.4
G Grampians	165	Damp Heath Scrub	16	Heathlands	Least Concern	1336	1309	14	1322	8	0	1309	0	5	1335	100.0	99.0	99.0
G Grampians	174	Grassy Dry Forest/Rocky Outcrop Shrubland/Rocky Outcrop Herland Mosaic	6	Dry Forests	Depleted	119	24	0	24	0	0	24	0	74	99	82.9	24.8	20.5
G Grampians	175	Grassy Woodland	5	Lower Slopes or Hills Woodlands	Endangered	3	0	0	0	0	0	0	0	2	2	79.8	0.0	0.0
G Grampians	184	Montane Wet Heathland	16	Heathlands	Least Concern	54	54	0	54	0	0	54	0	0	54	100.0	100.0	100.0
G Grampians	191	Riparian Scrub	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	2302	2114	18	2133	37	0	2114	0	90	2260	98.2	94.4	92.7
G Grampians	192	Montane Rocky Shrubland	10	Montane Grasslands, Shrublands or Woodlands	Least Concern	1873	1873	0	1873	0	0	1873	0	0	1873	100.0	100.0	100.0
G Grampians	193	Rocky Outcrop Herland	20	Rocky Outcrop or Escarpment Scrubs	Least Concern	10002	9896	17	9913	7	0	9896	0	77	9997	99.9	99.2	99.1
G Grampians	195	Seasonally Inundated Shrubby Woodland	5	Lower Slopes or Hills Woodlands	Least Concern	4271	1697	100	1797	35	0	1697	0	1451	3283	76.9	54.7	42.1
G Grampians	198	Sedgy Riparian Woodland	14	Riverine Grassy Woodlands or Forests	Least Concern	2441	2215	37	2252	46	0	2215	0	53	2351	96.3	95.8	92.3
G Grampians	200	Shallow Freshwater Marsh	18	Wetlands	Vulnerable	487	392	11	403	19	0	392	0	7	429	88.1	93.8	82.7
G Grampians	203	Stony Rises Woodland	13	Plains Woodlands or Forests	Vulnerable	1	0	0	0	0	0	0	0	1	1	100.0	1.8	1.8
G Grampians	241	Valley Grassy Forest/Plains Grassy Woodland Complex	6	Dry Forests	Endangered	14	0	0	0	0	0	0	0	13	14	96.6	0.3	0.3
G Grampians	278	Herb-rich Heathy Forest	2	Heathy Woodlands	Least Concern	431	431	0	431	0	0	431	0	0	431	100.0	100.0	100.0

Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
G Grampians	279	Heathland Thicket	16	Heathlands	Least Concern	660	612	39	651	0	0	612	0	6	657	99.6	99.1	98.7
G Grampians	280	Floodplain Thicket	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	2472	2115	210	2325	33	0	2115	0	55	2413	97.6	96.4	94.1
G Grampians	282	Shrubby Woodland	2	Heathy Woodlands	Least Concern	10307	5742	75	5817	35	0	5742	0	2537	8389	81.4	69.3	56.4
G Grampians	283	Plains Sedgy Woodland	13	Plains Woodlands or Forests	Vulnerable	553	166	27	193	2	0	166	0	324	519	93.8	37.2	34.9
G Grampians	284	Claypan Ephemeral Wetland	18	Wetlands	Vulnerable	3	3	0	3	0	0	3	0	0	3	100.0	100.0	100.0
G Grampians	285	Dry Creekline Woodland	5	Lower Slopes or Hills Woodlands	Endangered	529	134	25	159	0	0	134	0	271	430	81.3	37.0	30.1
G Grampians	292	Red Gum Swamp	18	Wetlands	Vulnerable	0	1	0	1	0	0	1	0	1	2	0.0	69.6	0.0
G Grampians	292	Red Gum Wetland	18	Wetlands		2	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
G Grampians	300	Reed Swamp	18	Wetlands	Vulnerable	46	8	0	8	6	0	8	0	26	40	87.9	20.4	18.0
G Grampians	336	Montane Rocky Shrubland/Shrubby Foothill Forest Complex	10	Montane Grasslands, Shrublands or Woodlands	Least Concern	20	20	0	20	0	0	20	0	0	20	100.0	100.0	100.0
G Grampians	342	Rocky Outcrop Shrubland/Rocky Outcrop Hermland/Shrubby Foothill Forest Complex	20	Rocky Outcrop or Escarpment Scrubs	Least Concern	1	1	0	1	0	0	1	0	0	1	100.0	100.0	100.0
G Grampians	345	Rocky Outcrop Shrubland/Rocky Outcrop Hermland/Lowland Forest Complex	20	Rocky Outcrop or Escarpment Scrubs	Least Concern	4	4	0	4	0	0	4	0	0	4	100.0	100.0	100.0
G Grampians	349	Rocky Outcrop Shrubland/Rocky Outcrop Hermland/Hills Herb-rich Woodland Complex	20	Rocky Outcrop or Escarpment Scrubs	Least Concern	80	80	0	80	0	0	80	0	0	80	100.0	100.0	100.0
G Grampians	350	Rocky Outcrop Shrubland/Rocky Outcrop Hermland/Grassy Dry Forest Mosaic	20	Rocky Outcrop or Escarpment Scrubs	Depleted	55	46	0	46	0	0	46	0	9	55	100.0	84.1	84.1
G Grampians	355	Rocky Outcrop Shrubland/Lowland Forest Complex	20	Rocky Outcrop or Escarpment Scrubs	Least Concern	3	3	0	3	0	0	3	0	0	3	100.0	100.0	100.0
G Grampians	357	Rocky Outcrop Shrubland/Heathy Dry Forest Complex	20	Rocky Outcrop or Escarpment Scrubs	Least Concern	146	144	0	144	0	0	144	0	1	146	100.0	99.0	99.0
G Grampians	358	Rocky Outcrop Shrubland/Heathy Woodland Complex	20	Rocky Outcrop or Escarpment Scrubs	Least Concern	6	6	0	6	0	0	6	0	0	6	100.0	99.8	99.8
G Grampians	361	Rocky Outcrop Shrubland/Grassy Dry Forest Complex	20	Rocky Outcrop or Escarpment Scrubs	Least Concern	16	16	0	16	0	0	16	0	0	16	100.0	99.6	99.6
G Grampians	371	Damp Forest/Herb-rich Foothill Forest Complex	7	Wet or Damp Forests	Least Concern	148	148	0	148	0	0	148	0	0	148	100.0	100.0	100.0
G Grampians	372	Damp Forest/Lowland Forest Complex	7	Wet or Damp Forests	Least Concern	31	31	0	31	0	0	31	0	0	31	100.0	100.0	100.0
G Grampians	373	Damp Forest/Riparian Scrub Complex	7	Wet or Damp Forests	Least Concern	11	11	0	11	0	0	11	0	0	11	100.0	100.0	100.0
G Grampians	376	Shrubby Foothill Forest/Lowland Forest Complex	6	Dry Forests	Least Concern	416	416	0	416	0	0	416	0	0	416	100.0	100.0	100.0
G Grampians	377	Shrubby Foothill Forest/Heathy Dry Forest Complex	6	Dry Forests	Least Concern	108	108	0	108	0	0	108	0	0	108	100.0	100.0	100.0
G Grampians	378	Herb-rich Foothill Forest/Lowland Forest Complex	6	Dry Forests	Depleted	14	14	0	14	0	0	14	0	0	14	100.0	100.0	100.0
G Grampians	379	Herb-rich Foothill Forest/Damp Sands Herb-rich Woodland Complex	6	Dry Forests	Depleted	53	51	0	51	0	0	51	0	2	53	100.0	96.4	96.4
G Grampians	380	Herb-rich Foothill Forest/Sedgy Riparian Woodland Complex	6	Dry Forests	Depleted	13	13	0	13	0	0	13	0	0	13	100.0	100.0	100.0
G Grampians	381	Herb-rich Foothill Forest/Grassy Dry Forest Complex	6	Dry Forests	Depleted	7	7	0	7	0	0	7	0	0	7	100.0	100.0	100.0
G Grampians	382	Lowland Forest/Heathy Dry Forest Complex	3	Lowland Forests	Least Concern	743	737	0	737	0	0	737	0	6	743	100.0	99.2	99.2
G Grampians	383	Lowland Forest/Valley Grassy Forest Complex	3	Lowland Forests	Vulnerable	1318	1004	0	1004	1	0	1004	0	201	1206	91.5	83.2	76.2
G Grampians	384	Lowland Forest/Heathy Woodland Complex	3	Lowland Forests	Least Concern	66	66	0	66	0	0	66	0	0	66	100.0	100.0	100.0
G Grampians	385	Lowland Forest/Riparian Forest Complex	3	Lowland Forests	Least Concern	25	25	0	25	0	0	25	0	0	25	100.0	100.0	100.0
G Grampians	386	Lowland Forest/Riparian Scrub Complex	3	Lowland Forests	Least Concern	10	10	0	10	0	0	10	0	0	10	100.0	100.0	100.0
G Grampians	387	Lowland Forest/Riparian Shrubland Complex	3	Lowland Forests	Least Concern	5	5	0	5	0	0	5	0	0	5	100.0	100.0	100.0
G Grampians	388	Lowland Forest/Grassy Dry Forest Complex	3	Lowland Forests	Depleted	60	58	0	58	0	0	58	0	2	60	100.0	96.8	96.8
G Grampians	389	Heathy Dry Forest/Hills Herb-rich Woodland Complex	6	Dry Forests	Least Concern	12	11	0	11	0	0	11	0	0	12	100.0	95.8	95.8
G Grampians	390	Heathy Dry Forest/Valley Grassy Forest Complex	6	Dry Forests	Vulnerable	434	423	0	423	0	0	423	0	11	434	100.0	97.6	97.6
G Grampians	391	Heathy Dry Forest/Damp Sands Herb-rich Woodland Complex	6	Dry Forests	Least Concern	22	22	0	22	0	0	22	0	0	22	100.0	100.0	100.0
G Grampians	392	Heathy Dry Forest/Shrubby Woodland Complex	6	Dry Forests	Least Concern	61	58	0	58	1	0	58	0	1	60	99.2	96.5	95.7
G Grampians	393	Heathy Dry Forest/Heathy Woodland Complex	6	Dry Forests	Least Concern	469	467	0	467	0	0	467	0	2	469	100.0	99.5	99.5

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G Grampians	396	Heathy Dry Forest/Sedgy Riparian Woodland Complex	6	Dry Forests	Least Concern	4	3	0	3	0	0	3	0	1	4	100.0	74.4	74.4
G Grampians	399	Hills Herb-rich Woodland/Valley Grassy Forest Complex	5	Lower Slopes or Hills Woodlands	Vulnerable	79	78	0	78	0	0	78	0	1	79	100.0	99.2	99.2
G Grampians	400	Hills Herb-rich Woodland/Shrubby Woodland Complex	5	Lower Slopes or Hills Woodlands	Least Concern	44	44	0	44	0	0	44	0	0	44	100.0	100.0	100.0
G Grampians	401	Hills Herb-rich Woodland/Heathy Woodland Complex	5	Lower Slopes or Hills Woodlands	Least Concern	749	747	0	747	0	0	747	0	2	749	100.0	99.7	99.7
G Grampians	402	Hills Herb-rich Woodland/Heathy Dry Forest Complex	5	Lower Slopes or Hills Woodlands	Least Concern	4	4	0	4	0	0	4	0	0	4	100.0	100.0	100.0
G Grampians	407	Hills Herb-rich Woodland/Riparian Shrubland Complex	5	Lower Slopes or Hills Woodlands	Least Concern	4	4	0	4	0	0	4	0	0	4	100.0	100.0	100.0
G Grampians	408	Valley Grassy Forest/Herb-rich Foothill Forest Complex	6	Dry Forests	Vulnerable	9	8	0	8	0	0	8	0	1	9	100.0	84.4	84.4
G Grampians	409	Valley Grassy Forest/Heathy Woodland Complex	6	Dry Forests	Vulnerable	162	152	0	152	3	0	152	0	4	158	97.8	96.1	94.0
G Grampians	410	Valley Grassy Forest/Sedgy Riparian Woodland Complex	6	Dry Forests	Endangered	37	36	0	36	0	0	36	0	1	37	100.0	97.9	97.9
G Grampians	411	Valley Grassy Forest/Damp Sands Herb-rich Woodland Complex	6	Dry Forests	Vulnerable	53	52	0	52	0	0	52	0	1	53	100.0	98.1	98.1
G Grampians	413	Valley Grassy Forest/Shrubby Woodland Complex	6	Dry Forests	Endangered	23	22	0	22	0	0	22	0	1	23	100.0	95.2	95.2
G Grampians	414	Damp Sands Herb-rich Woodland/Shrubby Woodland Complex	15	Herb-rich Woodlands	Least Concern	356	322	8	330	13	0	322	0	12	356	100.0	92.8	92.8
G Grampians	417	Damp Sands Herb-rich Woodland/Alluvial Terraces Herb-rich Woodland Complex	15	Herb-rich Woodlands	Least Concern	7	7	0	7	0	0	7	0	0	7	100.0	100.0	100.0
G Grampians	418	Damp Sands Herb-rich Woodland/Heathy Woodland Complex	15	Herb-rich Woodlands	Least Concern	163	155	7	161	2	0	155	0	0	163	100.0	99.0	98.9
G Grampians	421	Damp Sands Herb-rich Woodland/Sedgy Riparian Woodland Complex	15	Herb-rich Woodlands	Least Concern	159	150	0	150	1	0	150	0	8	159	100.0	94.4	94.4
G Grampians	422	Damp Sands Herb-rich Woodland/Sedgy Riparian Woodland Mosaic	15	Herb-rich Woodlands	Least Concern	9	9	0	9	0	0	9	0	0	9	100.0	100.0	100.0
G Grampians	423	Damp Sands Herb-rich Woodland/Dry Creekline Woodland Complex	15	Herb-rich Woodlands	Least Concern	8	8	0	8	0	0	8	0	0	8	100.0	100.0	100.0
G Grampians	426	Heathland Thicket/Sand Heathland Complex	16	Heathlands	Least Concern	14	14	0	14	0	0	14	0	0	14	100.0	100.0	100.0
G Grampians	427	Heathland Thicket/Wet Heathland Complex	16	Heathlands	Least Concern	10	10	0	10	0	0	10	0	0	10	100.0	100.0	100.0
G Grampians	430	Floodplain Thicket/Riparian Scrub Complex	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	54	54	0	54	0	0	54	0	0	54	100.0	100.0	100.0
G Grampians	431	Floodplain Thicket/Sedgy Riparian Woodland Complex	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	5	5	0	5	0	0	5	0	0	5	100.0	100.0	100.0
G Grampians	434	Floodplain Thicket/Damp Heathland Complex	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	12	0	9	9	3	0	0	0	0	12	99.9	77.1	77.0
G Grampians	436	Shrubby Woodland/Damp Sands Herb-rich Woodland Mosaic	15	Herb-rich Woodlands	Least Concern	33	33	0	33	0	0	33	0	0	33	100.0	100.0	100.0
G Grampians	438	Shrubby Woodland/Alluvial Terraces Herb-rich Woodland Mosaic	15	Herb-rich Woodlands	Least Concern	176	157	0	157	0	0	157	0	19	176	100.0	89.2	89.2
G Grampians	439	Shrubby Woodland/Alluvial Terraces Herb-rich Woodland Complex	15	Herb-rich Woodlands	Least Concern	72	58	1	59	9	0	58	0	3	72	99.8	82.4	82.3
G Grampians	441	Shrubby Woodland/Heathy Woodland Complex	2	Heathy Woodlands	Least Concern	312	279	0	279	0	0	279	0	27	306	97.8	91.2	89.2
G Grampians	442	Shrubby Woodland/Plains Grassy Woodland Complex	13	Plains Woodlands or Forests	Endangered	38	31	0	31	0	0	31	0	7	38	99.9	80.5	80.4
G Grampians	443	Shrubby Woodland/Seasonally Inundated Shrubby Woodland Complex	5	Lower Slopes or Hills Woodlands	Least Concern	15	15	0	15	0	0	15	0	0	15	100.0	100.0	100.0
G Grampians	444	Shrubby Woodland/Hills Herb-rich Woodland Complex	15	Herb-rich Woodlands	Least Concern	60	59	0	59	0	0	59	0	1	60	100.0	98.6	98.6
G Grampians	448	Shrubby Woodland/Sand Heathland Complex	2	Heathy Woodlands	Least Concern	24	24	0	24	0	0	24	0	0	24	100.0	100.0	100.0
G Grampians	449	Shrubby Woodland/Riparian Scrub Complex	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	29	20	0	20	2	0	20	0	1	23	79.8	87.0	69.4
G Grampians	450	Shrubby Woodland/Sedgy Riparian Woodland Complex	5	Lower Slopes or Hills Woodlands	Least Concern	103	62	12	74	3	0	62	0	23	99	97.0	74.1	71.8
G Grampians	451	Shrubby Woodland/Seasonally Inundated Shrubby Woodland Mosaic	5	Lower Slopes or Hills Woodlands	Least Concern	18	18	0	18	0	0	18	0	0	18	100.0	100.0	100.0
G Grampians	452	Alluvial Terraces Herb-rich Woodland/Hills Herb-rich Woodland Complex	15	Herb-rich Woodlands	Least Concern	36	36	0	36	0	0	36	0	0	36	100.0	100.0	100.0
G Grampians	454	Alluvial Terraces Herb-rich Woodland/Claypan Ephemeral Wetland Complex	15	Herb-rich Woodlands	Least Concern	7	7	0	7	0	0	7	0	0	7	100.1	93.4	93.4
G Grampians	455	Alluvial Terraces Herb-rich Woodland/Claypan Ephemeral Wetland Mosaic	15	Herb-rich Woodlands	Least Concern	28	28	0	28	0	0	28	0	0	28	99.8	99.3	99.1
G Grampians	457	Alluvial Terraces Herb-rich Woodland/Sedge Wetland Complex	15	Herb-rich Woodlands	Least Concern	16	16	0	16	0	0	16	0	0	16	100.0	100.0	100.0
G Grampians	458	Red Gum Wetland/Shallow Freshwater Marsh Mosaic	18	Wetlands	Vulnerable	27	7	0	7	0	0	7	0	20	27	98.3	26.4	25.9
G Grampians	464	Heathy Woodland/Valley Grassy Forest Complex	2	Heathy Woodlands	Vulnerable	41	40	0	40	0	0	40	0	1	41	100.0	98.1	98.1
G Grampians	467	Heathy Woodland/Riparian Scrub Complex	2	Heathy Woodlands	Least Concern	11	11	0	11	0	0	11	0	0	11	100.0	100.0	100.0



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G Grampians	468	Heathy Woodland/Sedgy Riparian Woodland Complex	2	Heathy Woodlands	Least Concern	21	6	0	6	2	0	6	0	6	14	68.6	42.4	29.1
G Grampians	471	Heathy Woodland/Shrubby Woodland Mosaic	2	Heathy Woodlands	Least Concern	20	20	0	20	0	0	20	0	0	20	100.0	100.0	100.0
G Grampians	475	Heathy Woodland/Sedgy Riparian Woodland Mosaic	2	Heathy Woodlands	Least Concern	5	5	0	5	0	0	5	0	0	5	100.0	100.0	100.0
G Grampians	477	Heathy Woodland/Sand Heathland Complex	2	Heathy Woodlands	Least Concern	30	30	0	30	0	0	30	0	0	30	100.0	100.0	100.0
G Grampians	478	Heathy Woodland/Damp Heathland Complex	2	Heathy Woodlands	Least Concern	8	8	0	8	0	0	8	0	0	8	100.0	100.0	100.0
G Grampians	481	Heathy Woodland/Heathy Dry Forest Complex	2	Heathy Woodlands	Least Concern	1294	1290	0	1290	0	0	1290	0	4	1294	100.0	99.7	99.7
G Grampians	485	Heathy Woodland/Plains Grassy Woodland Complex	2	Heathy Woodlands	Vulnerable	113	88	23	111	0	0	88	0	2	113	100.0	98.3	98.2
G Grampians	487	Heathy Woodland/Grassy Dry Forest Complex	2	Heathy Woodlands	Depleted	83	81	0	81	0	0	81	0	2	83	100.0	97.6	97.6
G Grampians	489	Heathy Woodland/Shrubby Woodland Complex	2	Heathy Woodlands	Least Concern	11	11	0	11	0	0	11	0	0	11	100.0	100.0	100.0
G Grampians	493	Heathy Woodland/Plains Grassy Woodland Mosaic	2	Heathy Woodlands	Vulnerable	6	2	0	2	0	0	2	0	4	6	95.7	29.7	28.4
G Grampians	497	Shrubby Woodland/Plains Grassy Woodland Mosaic	13	Plains Woodlands or Forests	Endangered	7	6	0	6	0	0	6	0	0	7	100.0	99.0	99.0
G Grampians	500	Sand Heathland/Damp Heathland Complex	16	Heathlands	Least Concern	114	114	0	114	0	0	114	0	0	114	100.0	100.0	100.0
G Grampians	502	Sand Heathland/Seasonally Inundated Shrubby Woodland Mosaic	16	Heathlands	Least Concern	34	34	0	34	0	0	34	0	0	34	100.0	100.0	100.0
G Grampians	504	Wet Heathland/Riparian Scrub Complex	16	Heathlands	Vulnerable	58	58	0	58	0	0	58	0	0	58	100.0	100.0	100.0
G Grampians	505	Damp Heathland/Riparian Scrub Complex	16	Heathlands	Least Concern	22	22	0	22	0	0	22	0	0	22	100.0	100.0	100.0
G Grampians	506	Riparian Forest/Sedgy Riparian Woodland Complex	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Depleted	9	9	0	9	0	0	9	0	0	9	100.0	100.0	100.0
G Grampians	509	Riparian Scrub/Heathland Thicket Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	56	55	0	55	0	0	55	0	0	56	100.0	99.6	99.6
G Grampians	510	Riparian Scrub/Sedgy Riparian Woodland Complex	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	328	309	6	315	5	0	309	0	2	323	98.5	97.6	96.1
G Grampians	512	Riparian Scrub/Seasonally Inundated Shrubby Woodland Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	8	8	0	8	0	0	8	0	0	8	100.0	100.0	100.0
G Grampians	514	Sedgy Riparian Woodland/Lowland Forest Complex	14	Riverine Grassy Woodlands or Forests	Least Concern	3	3	0	3	0	0	3	0	0	3	100.0	100.0	100.0
G Grampians	515	Sedgy Riparian Woodland/Riparian Shrubland Complex	14	Riverine Grassy Woodlands or Forests	Least Concern	18	18	0	18	0	0	18	0	0	18	100.0	100.0	100.0
G Grampians	516	Sedgy Riparian Woodland/Dry Creekline Woodland Complex	14	Riverine Grassy Woodlands or Forests	Least Concern	31	30	0	30	0	0	30	0	1	31	100.0	97.7	97.7
G Grampians	519	Shallow Freshwater Marsh/Floodplain Thicket Mosaic	18	Wetlands	Vulnerable	43	43	0	43	0	0	43	0	0	43	100.0	100.0	100.0
G Grampians	521	Shallow Freshwater Marsh/Seasonally Inundated Shrubby Woodland Complex	18	Wetlands	Vulnerable	6	6	0	6	0	0	6	0	0	6	100.0	100.0	100.0
G Grampians	522	Riparian Shrubland/Riparian Scrub Complex	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	4	4	0	4	0	0	4	0	0	4	100.0	100.0	100.0
G Grampians	529	Seasonally Inundated Shrubby Woodland/Heathland Thicket Mosaic	5	Lower Slopes or Hills Woodlands	Least Concern	27	27	0	27	0	0	27	0	0	27	100.0	100.0	100.0
G Grampians	531	Seasonally Inundated Shrubby Woodland/Sedge Wetland Complex	5	Lower Slopes or Hills Woodlands	Least Concern	11	11	0	11	0	0	11	0	0	11	100.0	100.0	100.0
G Grampians	547	Shrubby Woodland/Damp Sands Herb-rich Woodland Complex	15	Herb-rich Woodlands	Least Concern	111	111	0	111	0	0	111	0	0	111	100.0	100.0	100.0
G Grampians	558	Lowland Forest/Hills Herb-rich Woodland Complex	3	Lowland Forests	Least Concern	1	1	0	1	0	0	1	0	0	1	100.0	100.0	100.0
G Grampians	559	Hills Herb-rich Woodland/Sedgy Riparian Woodland Complex	5	Lower Slopes or Hills Woodlands	Least Concern	4	4	0	4	0	0	4	0	0	4	100.0	100.0	100.0
G Grampians	565	Heathland Thicket/Seasonally Inundated Shrubby Woodland Complex	16	Heathlands	Least Concern	11	11	0	11	0	0	11	0	0	11	100.0	100.0	100.0
G Grampians	572	Rocky Outcrop Shrubland/Valley Grassy Forest Complex	20	Rocky Outcrop or Escarpment Scrubs	Vulnerable	2	2	0	2	0	0	2	0	0	2	100.0	100.0	100.0
G Grampians	584	Heathy Woodland/Hills Herb-rich Woodland Complex	2	Heathy Woodlands	Least Concern	4	4	0	4	0	0	4	0	0	4	100.0	100.0	100.0
G Grampians	585	Floodplain Thicket/Wet Heathland Complex	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	44	44	0	44	0	0	44	0	0	44	100.0	100.0	100.0
G Grampians	587	Valley Grassy Forest/Grassy Dry Forest Complex	6	Dry Forests	Vulnerable	140	139	0	139	0	0	139	0	1	140	100.0	99.6	99.6
G Grampians	588	Riparian Scrub/Riparian Forest Complex	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	2	2	0	2	0	0	2	0	0	2	100.0	100.0	100.0
G Grampians	589	Wet Forest/Damp Forest Complex	7	Wet or Damp Forests	Least Concern	18	18	0	18	0	0	18	0	0	18	100.0	100.0	100.0
G Grampians	590	Lowland Forest/Shrubby Woodland Complex	3	Lowland Forests	Least Concern	26	26	0	26	0	0	26	0	0	26	100.0	100.0	100.0
G Grampians	595	Damp Heathland/Riparian Scrub Mosaic	16	Heathlands	Least Concern	6	6	0	6	0	0	6	0	0	6	100.0	100.0	100.0
G Grampians	596	Riparian Scrub/Sedgy Riparian Woodland Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	34	34	0	34	0	0	34	0	0	34	100.0	98.9	98.9

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BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
G Grampians	597	Damp Forest/Herb-rich Foothill Forest Mosaic	7	Wet or Damp Forests	Least Concern	23	23	0	23	0	0	23	0	0	23	100.0	100.0	100.0
G Grampians	598	Rocky Outcrop Shrubland/Rocky Outcrop Hermland/Heathy Dry Forest Mosaic	20	Rocky Outcrop or Escarpment Scrubs	Least Concern	22	22	0	22	0	0	22	0	0	22	100.0	100.0	100.0
G Grampians	599	Grassy Dry Forest/Rocky Outcrop Shrubland Mosaic	6	Dry Forests	Depleted	3	3	0	3	0	0	3	0	0	3	100.0	100.0	100.0
G Grampians	600	Herb-rich Foothill Forest/Damp Sands Herb-rich Woodland Mosaic	6	Dry Forests	Depleted	7	7	0	7	0	0	7	0	0	7	100.0	100.0	100.0
G Grampians	601	Heathland Thicket/Sedgy Riparian Woodland Complex	16	Heathlands	Least Concern	11	11	0	11	0	0	11	0	0	11	100.0	100.0	100.0
G Grampians	607	Riparian Scrub/Heathland Thicket Complex	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	29	29	0	29	0	0	29	0	0	29	100.0	100.0	100.0
G Grampians	612	Alluvial Terraces Herb-rich Woodland/Shrubby Woodland Complex	15	Herb-rich Woodlands	Least Concern	4	4	0	4	0	0	4	0	0	4	100.0	100.0	100.0
G Grampians	623	Lowland Forest/Damp Sands Herb-rich Woodland Complex	3	Lowland Forests	Least Concern	6	6	0	6	0	0	6	0	0	6	100.0	100.0	100.0
G Grampians	625	Damp Heathland/Wet Heathland Mosaic	16	Heathlands	Least Concern	10	10	0	10	0	0	10	0	0	10	100.0	100.0	100.0
G Grampians	632	Damp Sands Herb-rich Woodland/Red Gum Wetland Mosaic	15	Herb-rich Woodlands	Least Concern	3	1	0	1	0	0	1	0	2	3	98.9	28.1	27.7
G Grampians	634	Heathy Dry Forest/Riparian Scrub Mosaic	6	Dry Forests	Least Concern	29	27	0	27	2	0	27	0	0	29	100.0	92.5	92.5
G Grampians	640	Creekline Sedgy Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	2	0	0	0	0	0	0	1	0	1	81.0	0.0	0.0
G Grampians	641	Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	18	0	0	0	10	0	0	0	7	16	94.2	0.0	0.0
G Grampians	642	Basalt Shrubby Woodland	13	Plains Woodlands or Forests	Endangered	2	0	0	0	0	0	0	1	0	1	30.9	0.0	0.0
G Grampians	647	Plains Sedgy Wetland	18	Wetlands	Endangered	13	9	0	9	0	0	9	0	1	10	76.5	89.2	68.3
G Grampians	653	Aquatic Hermland	18	Wetlands	Endangered	72	0	0	0	0	0	0	27	0	27	38.0	0.0	0.0
G Grampians	660	Plains Woodland/Plains Grassy Wetland Mosaic	13	Plains Woodlands or Forests	Endangered	284	0	0	0	0	0	0	0	158	158	55.8	0.1	0.0
G Grampians	672	Damp Sands Herb-rich Woodland/Shrubby Woodland Mosaic	15	Herb-rich Woodlands	Least Concern	764	101	46	147	115	0	101	0	228	490	64.1	29.9	19.2
G Grampians	680	Freshwater Meadow	18	Wetlands	Endangered	5	0	0	0	0	0	0	0	3	4	73.5	0.0	0.0
G Grampians	685	Box Ironbark Forest/Heathy Woodland Complex	4	Box Ironbark Forests or dry/lower fertility Woodlands	Least Concern	8	2	0	2	6	0	2	0	0	8	99.8	29.7	29.7
G Grampians	691	Aquatic Hermland/Plains Sedgy Wetland Mosaic	18	Wetlands	Endangered	7	0	0	0	3	0	0	0	3	6	82.5	0.0	0.0
G Grampians	704	Lateritic Woodland	2	Heathy Woodlands	Depleted	1501	952	221	1173	1	0	952	0	271	1446	96.3	81.1	78.1
G Grampians	709	Scree-slope Woodland	5	Lower Slopes or Hills Woodlands	Endangered	0	23	0	23	0	0	23	0	0	23	0.0	100.0	0.0
G Grampians	709	Scree-slope Grassland/Woodland Mosaic	5	Lower Slopes or Hills Woodlands		32	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
G Grampians	710	Damp Heathland	16	Heathlands	Least Concern	16	0	0	0	0	0	0	0	14	14	89.2	1.1	1.0
G Grampians	726	Rocky Outcrop Shrubland/Rocky Outcrop Hermland/Heathy Woodland Mosaic	20	Rocky Outcrop or Escarpment Scrubs	Least Concern	549	489	0	489	25	0	489	0	34	548	99.9	89.2	89.1
G Grampians	727	Hills Herb-rich Woodland/Heathy Woodland Mosaic	5	Lower Slopes or Hills Woodlands	Least Concern	9	0	0	0	0	0	0	0	9	9	94.4	1.9	1.8
G Grampians	730	Plains Grassy Woodland/Shrubby Woodland Mosaic	13	Plains Woodlands or Forests	Vulnerable	13	0	0	0	0	0	0	0	12	12	93.1	1.3	1.2
G Grampians	745	Hills Herb-rich Woodland/Plains Grassy Woodland Mosaic	5	Lower Slopes or Hills Woodlands	Vulnerable	188	0	0	0	0	0	0	73	0	73	38.9	0.0	0.0
G Grampians	748	Shallow Sands Woodland/Heathy Woodland Mosaic	13	Plains Woodlands or Forests	Vulnerable	89	65	0	65	0	0	65	0	10	75	83.9	87.0	72.9
G Grampians	750	Shallow Sands Woodland/Plains Sedgy Woodland/Seasonally Inundated Shrubby Woodland/Damp Sands Herb-rich Woodland Mosaic	13	Plains Woodlands or Forests	Vulnerable	7	0	0	0	0	0	0	7	0	7	100.0	0.0	0.0
G Grampians	753	Rocky Outcrop Shrubland/Rocky Outcrop Hermland/Sandstone Ridge Shrubland Mosaic	20	Rocky Outcrop or Escarpment Scrubs	Least Concern	176	120	0	120	0	0	120	0	56	176	100.0	68.1	68.1
G Grampians	758	Rocky Outcrop Shrubland/Rocky Outcrop Hermland/Hills Herb-rich Woodland Mosaic	5	Lower Slopes or Hills Woodlands	Least Concern	25	0	0	0	0	0	0	0	25	25	100.0	0.5	0.5
G Grampians	759	Hills Herb-rich Woodland/Valley Grassy Forest Mosaic	5	Lower Slopes or Hills Woodlands	Least Concern	71	0	0	0	0	0	0	0	69	69	97.0	0.4	0.4
G Grampians	760	Lateritic Woodland/Heathy Dry Forest Mosaic	2	Heathy Woodlands	Endangered	116	1	0	1	0	0	1	0	108	109	94.4	1.0	0.9
G Grampians	761	Hills Herb-rich Woodland/Lateritic Woodland Mosaic	5	Lower Slopes or Hills Woodlands	Least Concern	151	0	0	0	0	0	0	0	123	123	81.8	0.0	0.0
G Grampians	762	Damp Heathland/Sand Heathland Mosaic	16	Heathlands	Least Concern	3	0	0	0	0	0	0	0	3	3	100.0	4.0	4.0
G Grampians	764	Lateritic Woodland/Heathy Woodland Mosaic	2	Heathy Woodlands	Endangered	54	0	0	0	0	0	0	0	48	48	90.3	0.9	0.8
G Grampians	765	Heathy Dry Forest/Plains Grassy Woodland Mosaic	6	Dry Forests	Vulnerable	40	0	0	0	0	0	0	40	0	40	100.0	0.0	0.0

Terrestrial Biodiversity Review

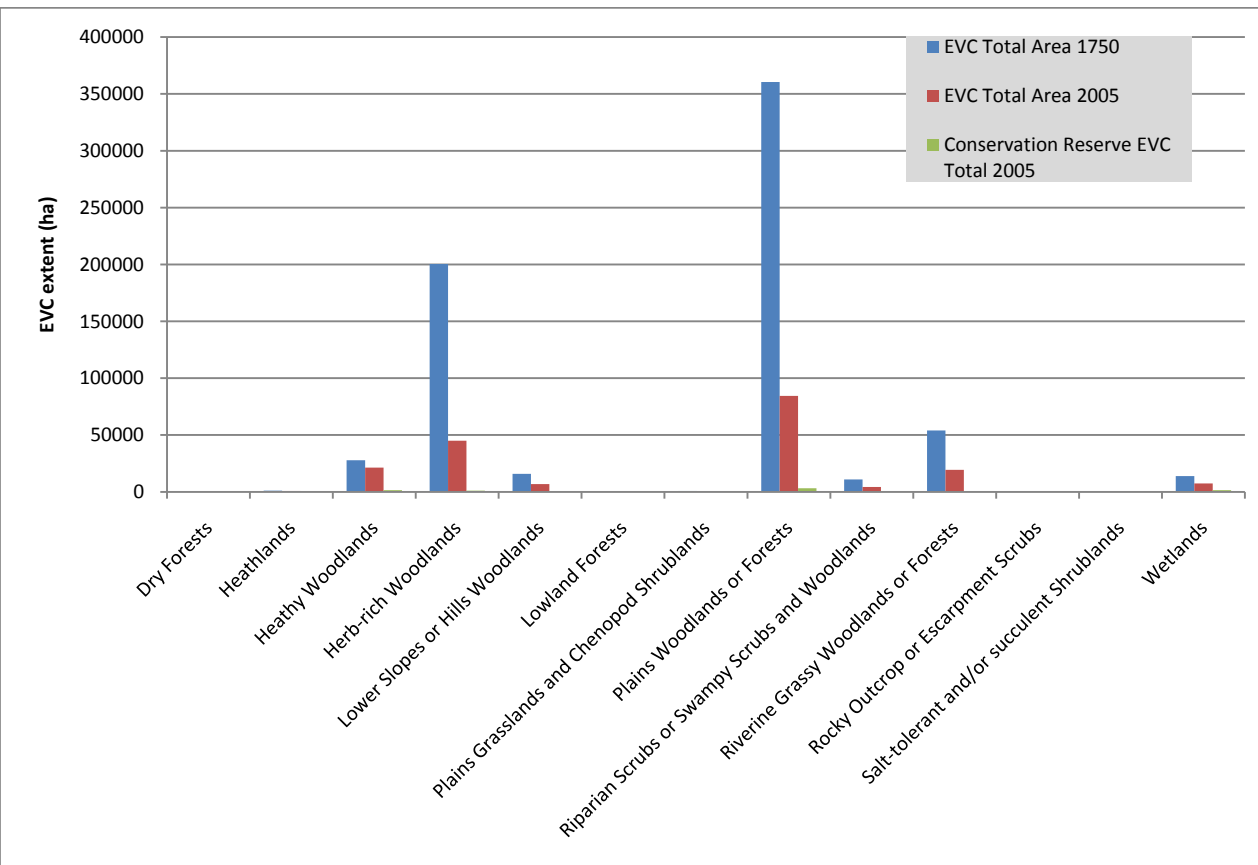
BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
G Grampians	766	Shrubby Woodland/Lateritic Woodland Mosaic	2	Heathy Woodlands	Least Concern	15	1	0	1	0	0	1	0	14	15	98.8	3.8	3.7
G Grampians	768	Wet Heathland/Riparian Scrub Mosaic	16	Heathlands	Vulnerable	16	0	0	0	0	0	0	0	9	9	55.7	1.1	0.6
G Grampians	771	Heathy Dry Forest/Sand Heathland Mosaic	2	Heathy Woodlands	Least Concern	5	0	0	0	0	0	0	0	4	4	80.9	2.1	1.7
G Grampians	773	Hills Herb-rich Woodland/Shrubby Woodland Mosaic	5	Lower Slopes or Hills Woodlands	Least Concern	2	0	0	0	0	0	0	0	2	2	100.0	0.1	0.1
G Grampians	774	Sedgy Riparian Woodland/Damp Sands Herb-rich Woodland Mosaic	14	Riverine Grassy Woodlands or Forests	Least Concern	4	0	0	0	0	0	0	0	4	4	100.0	0.6	0.6
G Grampians	775	Floodplain Thicket/Shrubby Woodland Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	4	0	0	0	0	0	0	0	4	4	100.0	0.1	0.1
G Grampians	789	Hills Herb-rich Woodland/Grassy Dry Forest Complex	5	Lower Slopes or Hills Woodlands	Least Concern	53	53	0	53	0	0	53	0	0	53	99.9	100.0	99.9
G Grampians	791	Damp Sands Herb-rich Woodland/Plains Grassy Woodland Complex	13	Plains Woodlands or Forests	Least Concern	18	0	0	0	10	0	0	0	8	18	99.5	0.0	0.0
G Grampians	796	Valley Grassy Forest/Lateritic Woodland Mosaic	6	Dry Forests	Vulnerable	30	0	0	0	0	0	0	0	27	27	89.5	0.4	0.3
G Grampians	798	Sedgy Riparian Woodland/Riparian Scrub Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	193	31	0	31	35	0	31	0	2	68	35.4	46.0	16.3
G Grampians	799	Shrubby Woodland/Riparian Scrub Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	92	59	0	59	15	0	59	0	1	75	81.0	78.7	63.7
G Grampians	803	Plains Woodland	13	Plains Woodlands or Forests	Endangered	67	2	1	3	0	0	2	0	11	15	22.0	22.6	5.0
G Grampians	881	Damp Sands Herb-rich Woodland/Heathy Woodland Mosaic	15	Herb-rich Woodlands	Least Concern	128	0	0	0	0	0	0	0	71	72	55.8	0.4	0.2
G Grampians	882	Shallow Sands Woodland	13	Plains Woodlands or Forests	Vulnerable	451	53	0	54	14	0	53	0	198	266	59.0	20.2	11.9
G Grampians	885	Damp Sands Herb-rich Woodland/Plains Grassy Woodland Mosaic	15	Herb-rich Woodlands	Least Concern	509	0	0	0	0	0	0	0	289	289	56.7	0.1	0.0
Total						235,989	178,278	5,100	183,378	1,604	0	178,278	153	32,026	217,160	92.0%	82.1%	75.5%

19. Dundas Tablelands

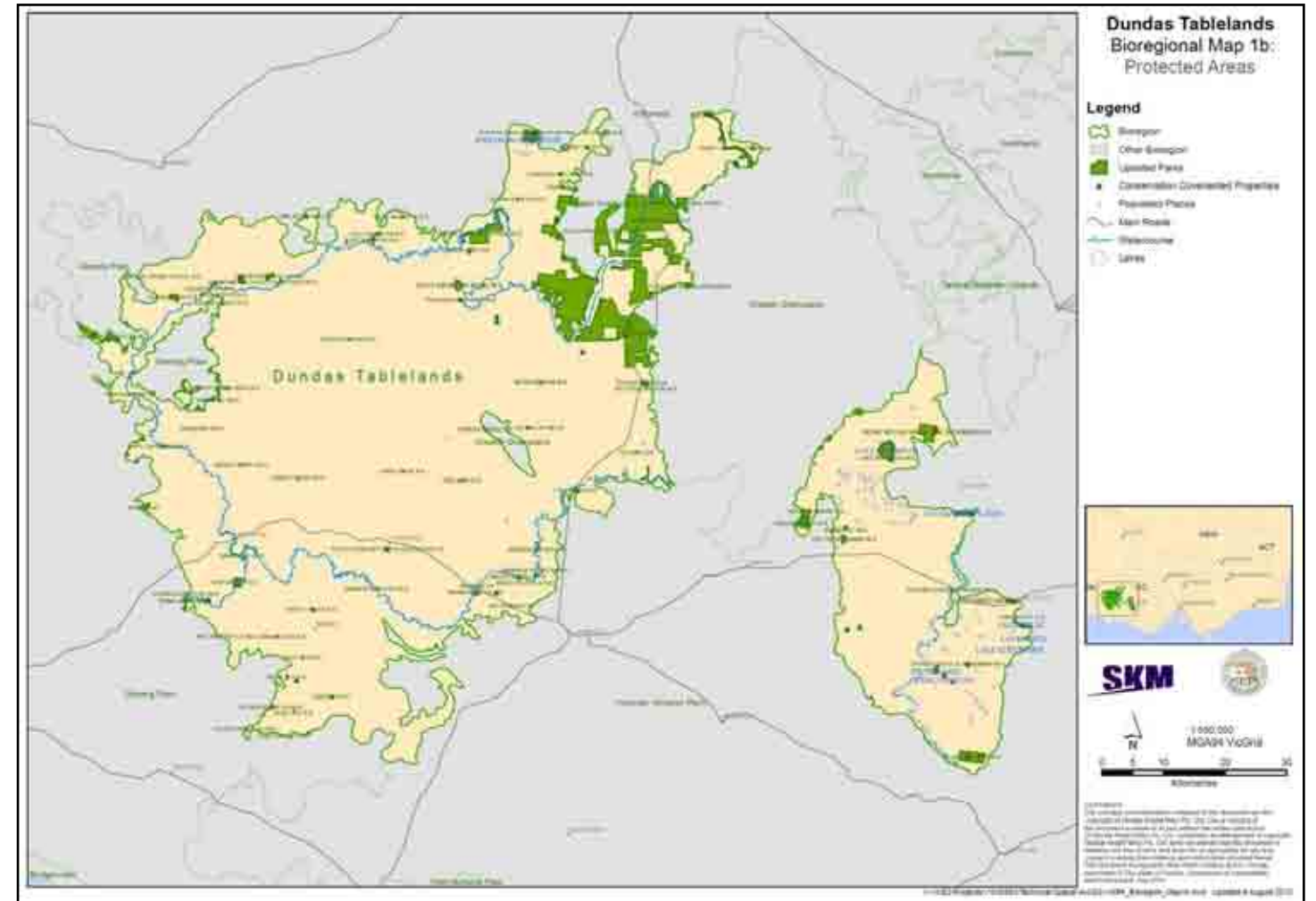
Bioregion size: 688 000 ha
 Native vegetation cover: 190120 ha (28%)
 Conservation reserve cover (excludes State Forests): 9 017 ha (4%)

Significant areas of native vegetation in the Bioregion are located on non-conservation public land, mostly in State Forests. With only 4% of the region's remaining vegetation protected, vegetation in State Forests prioritised for conservation purposes, particularly areas of the EVC groups Plains Woodland or Forests and Herb-rich Woodlands, which were the most abundant EVC groups in the Bioregion and have been extensively cleared.

The Dundas Tablelands Bioregion (DunT) is a 688 000 ha tableland, dissected by the Greater Grampians Bioregion surrounding Hamilton in south-western Victoria. The Bioregion is predominately within both the Glenelg Hopkins Catchment Management Authority (CMA) area, with northern areas ranging into the Wimmera CMA, which are planned to be amalgamated to form the Western Districts Natural Resource and Catchment Authority (NRCA) and Wimmera-Mallee NRCA respectively. The Dundas Tablelands Bioregion is classified as Interim Biogeographic Regionalisation of Australia (IBRA) Sub-region VM4. Valleys are dominated by black soils, with cracking clays and yellow-textured soils on tabletops.

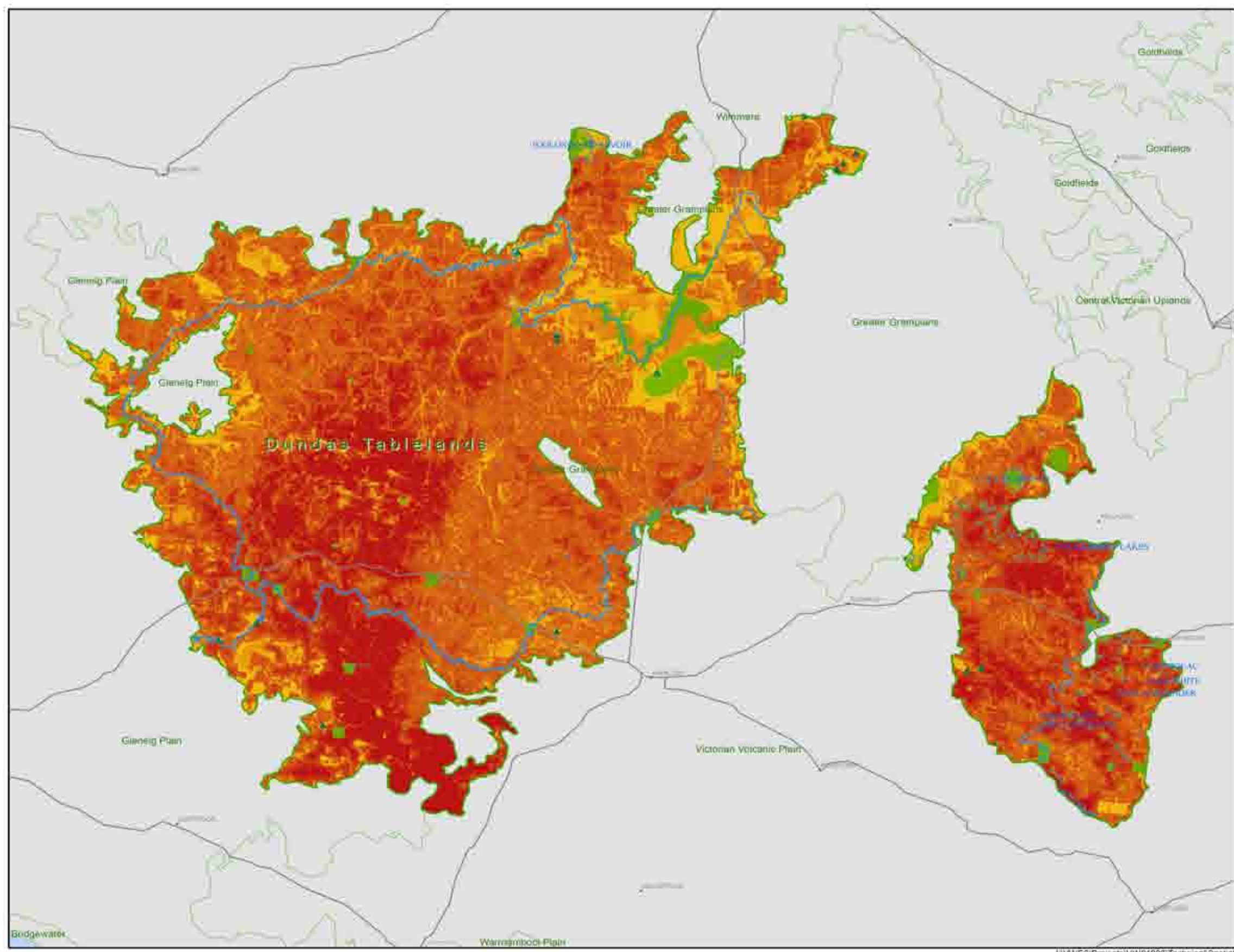


■ Figure 19-1 EVC Group Breakdown



■ Figure 19-2 Protected Areas – Dundas Tablelands

The Bioregion has been heavily cleared for agriculture, particularly grazing, and more recently for non-native forestry, resulting in the remnant native vegetation is one of the least represented of any Bioregion in Victorian conservation reserves. Most of the remnant native vegetation that has persisted, is present along narrow roadside and riparian corridors. Remnant native vegetation present is not easily classified, with 49 of 95 Ecological Vegetation Classes (EVCs) mapped being complexes or mosaics. The major threat to remnant native vegetation in the Bioregion is through accidental clearance and invasion by environmental weeds along narrow roadside strips, or as woodland-derived native grasslands. The Dundas Tablelands are also home to wetlands which support the Environment Protection and Biodiversity Conservation (EPBC) Act listed threatened Red-tailed Black-Cockatoo (*Calyptorhynchus banksii graptogyne*) which feed on Bulokes (*Allocasuarina leuhmannii*), and local Stringybark Woodlands and Victorian Flora and Fauna Guarantee (FFG) Act listed Brolga (*Grus rubicunda*). The Bioregion also provides habitat for the FFG Act listed Yarra Pigmy Perch (*Edelia obscura*). Stock grazing is of particular threat to the remaining habitat for both these species, and due to the small area of vegetation protected, community partnerships are required to maintain what little habitat remains. Significant research is currently being undertaken in Western Victoria, into the viability of wind farms, which are expected to change the visual landscape of the Bioregion into the future.



**Dundas Tablelands
Bioregional Map 1a:
Landscape Priorities**

Legend

- Bioregion
- Other Bioregion
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes

Landscape Importance

High : 20
Low : 1



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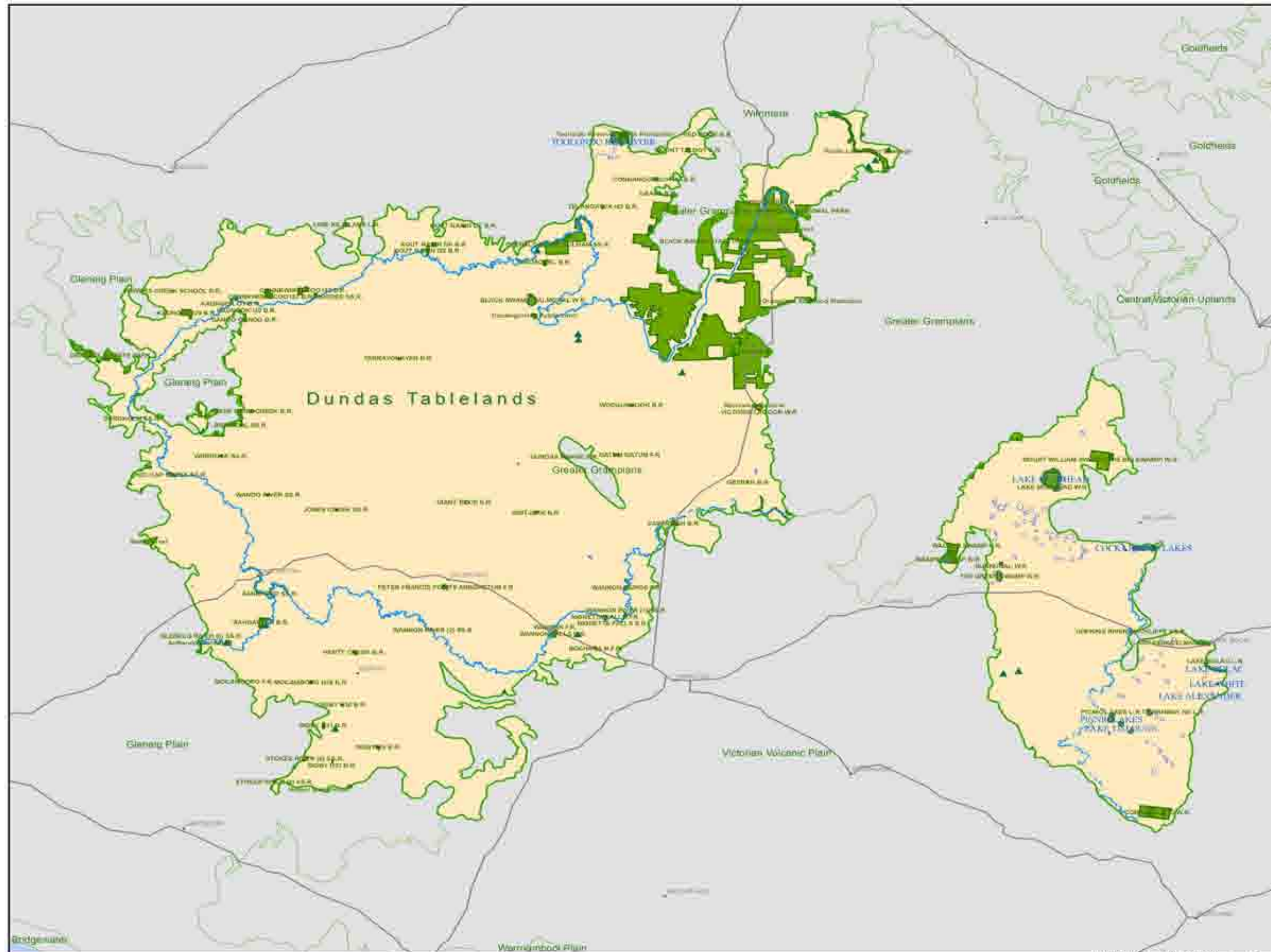
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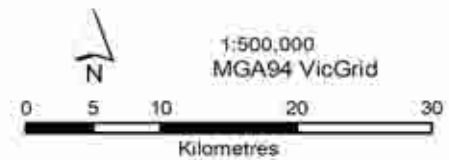
**Dundas Tablelands
Bioregional Map 1b:
Protected Areas**

Legend

- Bioregion
- Other Bioregion
- Updated Parks
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes



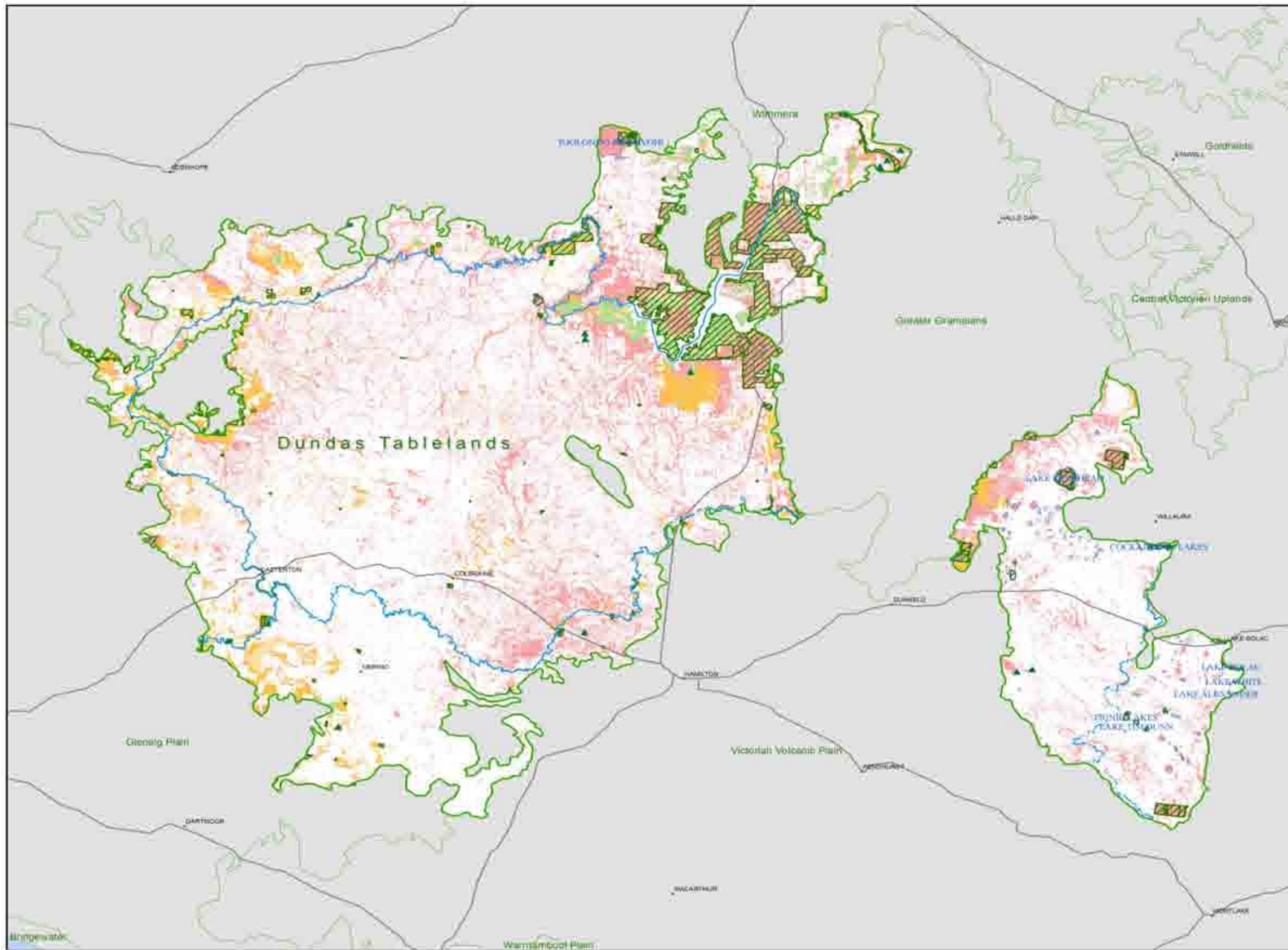
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**Dundas Tablelands
Bioregional Map 2a:
Vegetation Conservation
Significance**

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Road
 - Watercourse
 - Lakes
- EVC Bioregional Conservation Status**
- Endangered
 - Vulnerable
 - Depleted
 - Rare
 - Least Concern



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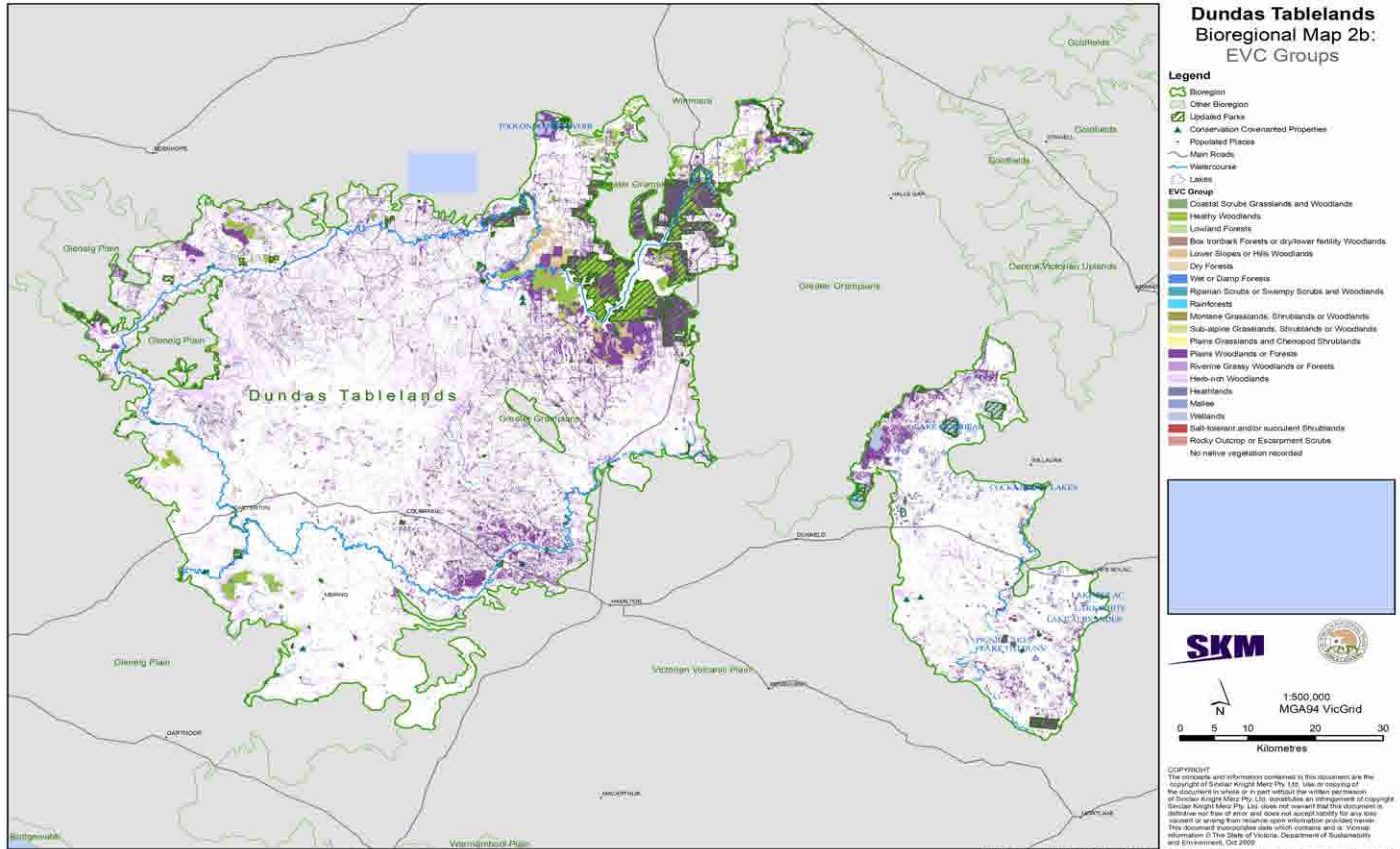
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Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Dun T	3	Damp Sands Herb-rich Woodland	15	Herb-rich Woodlands	Vulnerable	57948	814	1425	2239	1147	0	814	0	17646	21032	36.3	10.6	3.9
Dun T	6	Sand Heathland	16	Heathlands	Vulnerable	537	83	335	419	3	0	83	0	96	517	96.3	81.0	78.0
Dun T	8	Wet Heathland	16	Heathlands	Depleted	150	0	9	9	68	0	0	0	21	98	65.2	9.3	6.1
Dun T	13	Brackish Sedgeland	18	Wetlands	Endangered	4	4	0	4	0	0	4	0	0	4	100.0	100.0	100.0
Dun T	16	Lowland Forest	3	Lowland Forests	Least Concern	283	17	91	108	3	0	17	0	59	170	60.2	63.5	38.2
Dun T	19	Riparian Shrubland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	57	5	2	7	29	0	5	0	19	54	95.9	13.0	12.5
Dun T	20	Heathy Dry Forest	6	Dry Forests	Least Concern	43	27	2	29	0	0	27	0	14	43	100.1	67.5	67.6
Dun T	23	Herb-rich Foothill Forest	6	Dry Forests		8	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Dun T	28	Rocky Outcrop Shrubland	20	Rocky Outcrop or Escarpment Scrubs	Least Concern	152	5	95	100	1	0	5	0	24	125	82.3	80.1	65.9
Dun T	48	Heathy Woodland	2	Heathy Woodlands	Least Concern	15952	609	7491	8099	261	0	609	0	3938	12299	77.1	65.9	50.8
Dun T	53	Swamp Scrub	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	3754	29	9	38	62	0	29	0	819	919	24.5	4.1	1.0
Dun T	55	Plains Grassy Woodland	13	Plains Woodlands or Forests	Endangered	312024	2137	13843	15980	1539	0	2137	0	57468	74986	24.0	21.3	5.1
Dun T	56	Floodplain Riparian Woodland	14	Riverine Grassy Woodlands or Forests	Vulnerable	14750	121	104	225	971	0	121	0	4272	5468	37.1	4.1	1.5
Dun T	67	Alluvial Terraces Herb-rich Woodland	15	Herb-rich Woodlands	Endangered	2044	183	122	305	26	0	183	0	453	783	38.3	38.9	14.9
Dun T	68	Creekline Grassy Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	29510	70	189	259	41	0	70	0	10277	10577	35.8	2.4	0.9
Dun T	71	Hills Herb-rich Woodland	5	Lower Slopes or Hills Woodlands	Vulnerable	2483	105	459	563	0	0	105	0	1281	1845	74.3	30.5	22.7
Dun T	73	Rocky Outcrop Shrubland/Rocky Outcrop Herland Mosaic	20	Rocky Outcrop or Escarpment Scrubs	Least Concern	79	12	6	18	1	0	12	0	34	53	67.0	34.3	23.0
Dun T	125	Plains Grassy Wetland	18	Wetlands	Endangered	2562	0	7	7	13	0	0	0	845	865	33.7	0.8	0.3
Dun T	132	Plains Grassland	12	Plains Grasslands and Chenopod Shrublands	Endangered	0	7	0	7	0	0	7	0	14	21	0.0	31.0	0.0
Dun T	132	Plains Grassland	12	Plains Grasslands and Chenopod Shrublands		26	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Dun T	134	Sand Forest	2	Heathy Woodlands	Endangered	67	0	16	16	0	0	0	0	24	40	60.5	40.4	24.4
Dun T	136	Sedge Wetland	18	Wetlands	Endangered	455	50	244	294	5	0	50	0	49	349	76.7	84.4	64.7
Dun T	152	Alluvial Terraces Herb-rich Woodland/Plains Grassy Woodland Complex	15	Herb-rich Woodlands	Endangered	15	9	6	15	0	0	9	0	0	15	100.0	99.8	99.8
Dun T	175	Grassy Woodland	5	Lower Slopes or Hills Woodlands	Endangered	5169	0	0	0	3	0	0	0	487	490	9.5	0.0	0.0
Dun T	179	Heathy Herb-rich Woodland	2	Heathy Woodlands	Depleted	5464	200	591	791	722	0	200	0	2202	3716	68.0	21.3	14.5
Dun T	191	Riparian Scrub	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	888	7	62	69	63	0	7	0	430	562	63.2	12.2	7.7
Dun T	193	Rocky Outcrop Herland	20	Rocky Outcrop or Escarpment Scrubs	Least Concern	20	8	11	20	0	0	8	0	1	20	100.1	96.7	96.8
Dun T	195	Seasonally Inundated Shrubby Woodland	5	Lower Slopes or Hills Woodlands	Depleted	1847	82	320	401	69	0	82	0	732	1203	65.1	33.4	21.7
Dun T	198	Sedgy Riparian Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	86	13	3	16	2	0	13	0	39	57	66.9	28.7	19.2
Dun T	200	Shallow Freshwater Marsh	18	Wetlands	Vulnerable	1441	226	86	312	49	0	226	0	943	1304	90.5	23.9	21.6
Dun T	250	Floodplain Riparian Woodland/Plains Grassy Woodland Mosaic	14	Riverine Grassy Woodlands or Forests	Endangered	1729	0	0	0	70	0	0	0	248	318	18.4	0.0	0.0
Dun T	279	Heathland Thicket	16	Heathlands	Least Concern	7	0	7	7	0	0	0	0	0	7	100.4	100.0	100.4
Dun T	280	Floodplain Thicket	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	670	115	274	388	52	0	115	0	20	460	68.6	84.5	58.0
Dun T	282	Shrubby Woodland	2	Heathy Woodlands	Vulnerable	547	69	161	230	116	0	69	0	167	513	93.8	44.8	42.1
Dun T	283	Plains Sedgy Woodland	13	Plains Woodlands or Forests	Depleted	1516	180	783	962	56	0	180	0	231	1249	82.4	77.1	63.5
Dun T	285	Dry Creekline Woodland	5	Lower Slopes or Hills Woodlands	Endangered	120	2	37	39	0	0	2	0	41	80	66.3	49.1	32.6
Dun T	292	Red Gum Swamp	18	Wetlands	Endangered	0	63	19	82	624	0	63	0	257	963	0.0	8.5	0.0
Dun T	292	Red Gum Wetland	18	Wetlands		1143	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Dun T	300	Reed Swamp	18	Wetlands	Vulnerable	1	1	0	1	0	0	1	0	0	1	100.0	100.0	100.0
Dun T	400	Hills Herb-rich Woodland/Shrubby Woodland Complex	5	Lower Slopes or Hills Woodlands	Least Concern	0	0	0	0	0	0	0	0	0	0	95.0	100.0	95.0
Dun T	414	Damp Sands Herb-rich Woodland/Shrubby Woodland Complex	15	Herb-rich Woodlands	Least Concern	1	0	0	0	0	0	0	0	0	1	98.1	77.8	76.3



Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Dun T	432	Floodplain Thicket/Shallow Freshwater Marsh Complex	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	81	0	17	17	38	0	0	0	0	54	66.7	30.6	20.4
Dun T	434	Floodplain Thicket/Damp Heathland Complex	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	11	0	9	9	2	0	0	0	0	11	100.1	83.9	84.0
Dun T	442	Shrubby Woodland/Plains Grassy Woodland Complex	13	Plains Woodlands or Forests	Endangered	2	2	0	2	0	0	2	0	0	2	100.5	100.0	100.5
Dun T	457	Alluvial Terraces Herb-rich Woodland/Sedge Wetland Complex	15	Herb-rich Woodlands	Endangered	14	14	0	14	0	0	14	0	0	14	100.0	100.0	100.0
Dun T	477	Heathy Woodland/Sand Heathland Complex	2	Heathy Woodlands	Least Concern	7	0	6	6	0	0	0	0	1	7	100.2	84.8	85.0
Dun T	485	Heathy Woodland/Plains Grassy Woodland Complex	2	Heathy Woodlands	Endangered	409	111	285	396	0	0	111	0	13	409	100.0	96.9	96.9
Dun T	489	Heathy Woodland/Shrubby Woodland Complex	2	Heathy Woodlands	Least Concern	17	0	0	0	6	0	0	0	11	17	100.0	0.0	0.0
Dun T	493	Heathy Woodland/Plains Grassy Woodland Mosaic	2	Heathy Woodlands	Endangered	1274	0	215	215	16	0	0	0	620	851	66.8	25.3	16.9
Dun T	498	Plains Grassy Woodland/Sand Heathland Complex	13	Plains Woodlands or Forests	Endangered	7	0	7	7	0	0	0	0	0	7	100.0	100.0	100.0
Dun T	500	Sand Heathland/Damp Heathland Complex	16	Heathlands	Least Concern	2	2	0	2	0	0	2	0	0	2	100.5	100.0	100.5
Dun T	547	Shrubby Woodland/Damp Sands Herb-rich Woodland Complex	15	Herb-rich Woodlands	Least Concern	4	0	0	0	2	0	0	0	2	4	100.0	0.0	0.0
Dun T	553	Floodplain Thicket/Seasonally Inundated Shrubby Woodland Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	25	0	24	24	0	0	0	0	0	25	100.0	98.4	98.4
Dun T	640	Creepline Sedgy Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	208	0	0	0	52	0	0	0	44	96	45.9	0.0	0.0
Dun T	641	Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	4067	47	35	82	306	0	47	0	1681	2070	50.9	4.0	2.0
Dun T	642	Basalt Shrubby Woodland	13	Plains Woodlands or Forests		16	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Dun T	643	Brackish Drainage-line Aggregate	18	Wetlands	Endangered	0	4	0	4	1	0	4	0	307	311	0.0	1.1	0.0
Dun T	643	Brackish Drainage-line Herbland-Sedgeland	18	Wetlands		645	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Dun T	647	Plains Sedgy Wetland	18	Wetlands	Endangered	2513	91	0	91	113	0	91	0	846	1050	41.8	8.7	3.6
Dun T	648	Saline Lake-verge Aggregate	19	Salt-tolerant and/or succulent Shrublands	Least Concern	0	0	0	0	0	0	0	4	0	4	0.0	0.0	0.0
Dun T	648	Saline Lake Verge Herbland-Sedgeland Mosaic	19	Salt-tolerant and/or succulent Shrublands		18	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Dun T	649	Stony Knoll Shrubland	13	Plains Woodlands or Forests		9	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Dun T	650	Heathy Woodland/Damp Heathy Woodland/Damp Heathland Mosaic	2	Heathy Woodlands	Least Concern	40	0	11	11	11	0	0	0	6	29	73.5	39.1	28.7
Dun T	651	Plains Swampy Woodland	13	Plains Woodlands or Forests	Endangered	229	0	0	0	0	0	0	48	0	48	20.9	0.0	0.0
Dun T	652	Lunette Woodland	13	Plains Woodlands or Forests	Endangered	20	0	0	0	0	0	0	0	0	0	2.0	52.7	1.0
Dun T	653	Aquatic Herbland	18	Wetlands	Endangered	118	59	9	68	1	0	59	0	43	112	95.0	60.2	57.2
Dun T	654	Creepline Tussock Grassland	12	Plains Grasslands and Chenopod Shrublands	Endangered	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Dun T	654	Creepline Tussock Grassland	12	Plains Grasslands and Chenopod Shrublands		59	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Dun T	657	Freshwater Lignum Shrubland	13	Plains Woodlands or Forests	Endangered	0	0	0	0	0	0	0	0	0	0	88.6	0.0	0.0
Dun T	660	Plains Woodland/Plains Grassy Wetland Mosaic	13	Plains Woodlands or Forests	Endangered	269	0	0	0	0	0	0	0	80	80	29.7	0.4	0.1
Dun T	662	Escarpment Shrubland/Grassy Woodland/Riparian Woodland Mosaic	14	Riverine Grassy Woodlands or Forests	Endangered	15	0	0	0	0	0	0	10	0	10	64.5	0.0	0.0
Dun T	666	Riparian Shrubland/Escarpment Shrubland/Grassy Woodland Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	81	6	0	6	1	0	6	0	53	60	73.6	9.6	7.1
Dun T	668	Riparian Woodland/Escarpment Shrubland Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	70	0	0	0	0	0	0	29	0	29	41.7	0.0	0.0
Dun T	672	Damp Sands Herb-rich Woodland/Shrubby Woodland Mosaic	15	Herb-rich Woodlands	Vulnerable	331	0	13	13	107	0	0	0	154	274	82.7	4.7	3.9
Dun T	673	Dune Soak Woodland	2	Heathy Woodlands	Endangered	4	0	4	4	0	0	0	0	0	4	100.0	99.9	100.0
Dun T	674	Sandy Stream Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	7241	16	5	21	56	0	16	0	2418	2496	34.5	0.8	0.3
Dun T	680	Freshwater Meadow	18	Wetlands	Endangered	39	0	2	2	0	0	0	0	32	34	88.6	5.1	4.5
Dun T	690	Floodplain Riparian Woodland/Billabong Wetland Mosaic	14	Riverine Grassy Woodlands or Forests	Vulnerable	448	0	0	0	0	0	0	287	0	287	64.0	0.0	0.0
Dun T	691	Aquatic Herbland/Plains Sedgy Wetland Mosaic	18	Wetlands	Endangered	4934	938	0	938	315	0	938	0	1167	2420	49.0	38.8	19.0
Dun T	697	Grassy Woodland/Alluvial Terraces Herb-rich Woodland Mosaic	5	Lower Slopes or Hills Woodlands	Endangered	9	0	0	0	0	0	0	2	0	2	16.1	0.0	0.0
Dun T	704	Lateritic Woodland	2	Heathy Woodlands	Depleted	4072	432	2193	2625	14	0	432	0	741	3380	83.0	77.7	64.5
Dun T	705	Basalt Creepline Shrubby Woodland	13	Plains Woodlands or Forests		0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0

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BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Dun T	710	Damp Heathland	16	Heathlands	Vulnerable	157	7	44	52	7	0	7	0	44	102	65.4	50.4	33.0
Dun T	717	Saline Lake Aggregate	19	Salt-tolerant and/or succulent Shrublands	Least Concern	0	146	0	146	124	0	146	0	47	317	0.0	45.9	0.0
Dun T	717	Saline Lake Mosaic	19	Salt-tolerant and/or succulent Shrublands		360	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Dun T	719	Grassy Woodland/Damp Sands Herb-rich Woodland Mosaic	15	Herb-rich Woodlands	Endangered	42463	20	9	29	38	0	20	0	5945	6012	14.2	0.5	0.1
Dun T	726	Rocky Outcrop Shrubland/Rocky Outcrop Herbland/Heathy Woodland Mosaic	20	Rocky Outcrop or Escarpment Scrubs	Least Concern	41	0	26	26	0	0	0	0	15	41	100.0	63.4	63.4
Dun T	730	Plains Grassy Woodland/Shrubby Woodland Mosaic	13	Plains Woodlands or Forests	Endangered	5	0	0	0	0	0	0	0	5	5	100.1	1.2	1.2
Dun T	734	Damp Heathland/Damp Heathy Woodland/Wet Heathland Mosaic	16	Heathlands	Vulnerable	61	0	0	0	21	0	0	0	32	53	88.2	0.0	0.0
Dun T	738	Damp Sands Herb-rich Woodland/Plains Grassy Woodland/Plains Sedgy Wetland Mosaic	15	Herb-rich Woodlands	Endangered	17	0	17	17	0	0	0	0	0	17	99.8	100.0	99.8
Dun T	739	Plains Grassy Woodland/Plains Swampy Woodland Mosaic	13	Plains Woodlands or Forests		9	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Dun T	745	Hills Herb-rich Woodland/Plains Grassy Woodland Mosaic	5	Lower Slopes or Hills Woodlands	Endangered	5689	0	632	632	60	0	0	0	2144	2836	49.9	22.3	11.1
Dun T	746	Damp Heathland/Damp Heathy Woodland Mosaic	16	Heathlands	Vulnerable	86	0	17	18	0	0	0	0	11	29	34.1	60.2	20.6
Dun T	750	Shallow Sands Woodland/Plains Sedgy Woodland/Seasonally Inundated Shrubby Woodland/Damp Sands Herb-rich Woodland Mosaic	13	Plains Woodlands or Forests	Endangered	572	15	111	126	0	0	15	0	198	324	56.7	39.0	22.1
Dun T	751	Seasonally Inundated Shrubby Woodland/Plains Sedgy Woodland Mosaic	5	Lower Slopes or Hills Woodlands	Depleted	459	19	36	55	0	0	19	0	260	315	68.7	17.5	12.0
Dun T	752	Grassy Woodland/Hills Herb-rich Woodland/Damp Sands Herb-rich Woodland Mosaic	15	Herb-rich Woodlands	Endangered	19963	41	20	61	58	0	41	0	4528	4647	23.3	1.3	0.3
Dun T	757	Damp Sands Herb-rich Woodland/Seasonally Inundated Shrubby Woodland Mosaic	15	Herb-rich Woodlands	Vulnerable	241	0	1	1	0	0	0	0	137	138	57.4	0.8	0.5
Dun T	758	Rocky Outcrop Shrubland/Rocky Outcrop Herbland/Hills Herb-rich Woodland Mosaic	5	Lower Slopes or Hills Woodlands	Least Concern	14	0	14	14	0	0	0	0	0	14	100.0	100.0	100.0
Dun T	762	Damp Heathland/Sand Heathland Mosaic	16	Heathlands	Vulnerable	6	0	0	0	0	0	0	0	6	6	100.0	2.5	2.5
Dun T	763	Damp Heathland/Damp Heathy Woodland/Seasonally Inundated Shrubby Woodland Mosaic	16	Heathlands	Vulnerable	30	0	0	0	0	0	0	1	0	1	4.1	0.0	0.0
Dun T	776	Plains Swampy Woodland/Swamp Scrub Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	1278	0	0	0	0	0	0	38	0	38	3.0	0.0	0.0
Dun T	781	Damp Sands Herb-rich Woodland/Herb-rich Foothill Forest Mosaic	15	Herb-rich Woodlands	Vulnerable	559	0	0	0	1	0	0	0	107	108	19.4	0.3	0.1
Dun T	791	Damp Sands Herb-rich Woodland/Plains Grassy Woodland Complex	13	Plains Woodlands or Forests	Endangered	34937	12	0	12	6	0	12	0	2197	2216	6.3	0.6	0.0
Dun T	792	Stony Rises Woodland/Stony Knoll Shrubland Complex	13	Plains Woodlands or Forests	Vulnerable	2361	0	1307	1307	0	0	0	0	943	2249	95.3	58.1	55.4
Dun T	793	Damp Heathy Woodland	2	Heathy Woodlands	Vulnerable	14	0	0	0	0	0	0	0	14	14	99.9	0.0	0.0
Dun T	803	Plains Woodland	13	Plains Woodlands or Forests	Endangered	475	0	0	0	19	0	0	0	68	87	18.3	0.0	0.0
Dun T	882	Shallow Sands Woodland	13	Plains Woodlands or Forests	Vulnerable	7550	827	721	1548	4	0	827	0	1484	3036	40.2	51.0	20.5
Dun T	885	Damp Sands Herb-rich Woodland/Plains Grassy Woodland Mosaic	15	Herb-rich Woodlands	Endangered	76822	7	157	164	181	0	7	0	11585	11931	15.5	1.4	0.2
Dun T	895	Escarpment Shrubland	13	Plains Woodlands or Forests	Endangered	441	3	0	3	26	0	3	0	141	171	38.8	2.0	0.8
Dun T	897	Plains Grassland/Plains Grassy Woodland Mosaic	12	Plains Grasslands and Chenopod Shrublands	Endangered	759	1	0	1	0	0	1	0	6	7	0.9	15.4	0.1
Total						686,228	8,073	32,758	40,831	7,584	0	8,073	418	141,287	190,120	27.7%	4.2%	1.2%



20. Northern Inland Slopes

Bioregion size: 565 808 ha
 Native vegetation cover: 265 992 ha (47%)
 Conservation reserve cover (excludes State Forests): 58 626 ha (22%)

Significant areas of native vegetation in the Bioregion are located on non-conservation public land, mostly in State Forests. Conservation priority should be given to Endangered EVCs in the Bioregion such as EVC 175 – Grassy Woodland and EVC 803 – Plains Woodland, both of which have significant unprotected areas located on public land.

The Northern Inland Slopes Bioregion (NIS) covers approximately 565 808 ha, consisting of a number of discrete blocks stretching from Corryong to near Shepparton, with an outlier further west around Terrick Terrick. Landforms are composed of steep, hilly and undulating ranges and granite basins. The upper slopes are dominated by Red Stringybark, with the lower slopes supporting Black Cypress Pine, Durrjong, Red Ironbark, White Gum, White Box, Yellow Box and Blakely's Red Gum, merging west to Yellow Box, Grey Box and White Cypress Pine. The Mitta Mitta, King, Ovens, Kiewa and Broken Rivers flow through the area. The Northern Inland Slopes Bioregion is also classified as Sub-region NSS1 of New South Wales South Western Slopes Interim Biogeographic Regionalisation of Australia (IBRA). The majority of the Bioregion falls within the North East Catchment Management Authority (CMA) area, with small areas also falling in the Goulburn Broken CMA and the North Central CMA. Under the proposed alignment of new Natural Resource and Catchment Authorities (NRCA) to be implemented in 2011, the North East CMA, Goulburn Broken CMA and North Central CMA will form the Northern Rivers NRCA. Chiltern-Mt Pilot National Park is within the Northern Inland Slopes Bioregion.

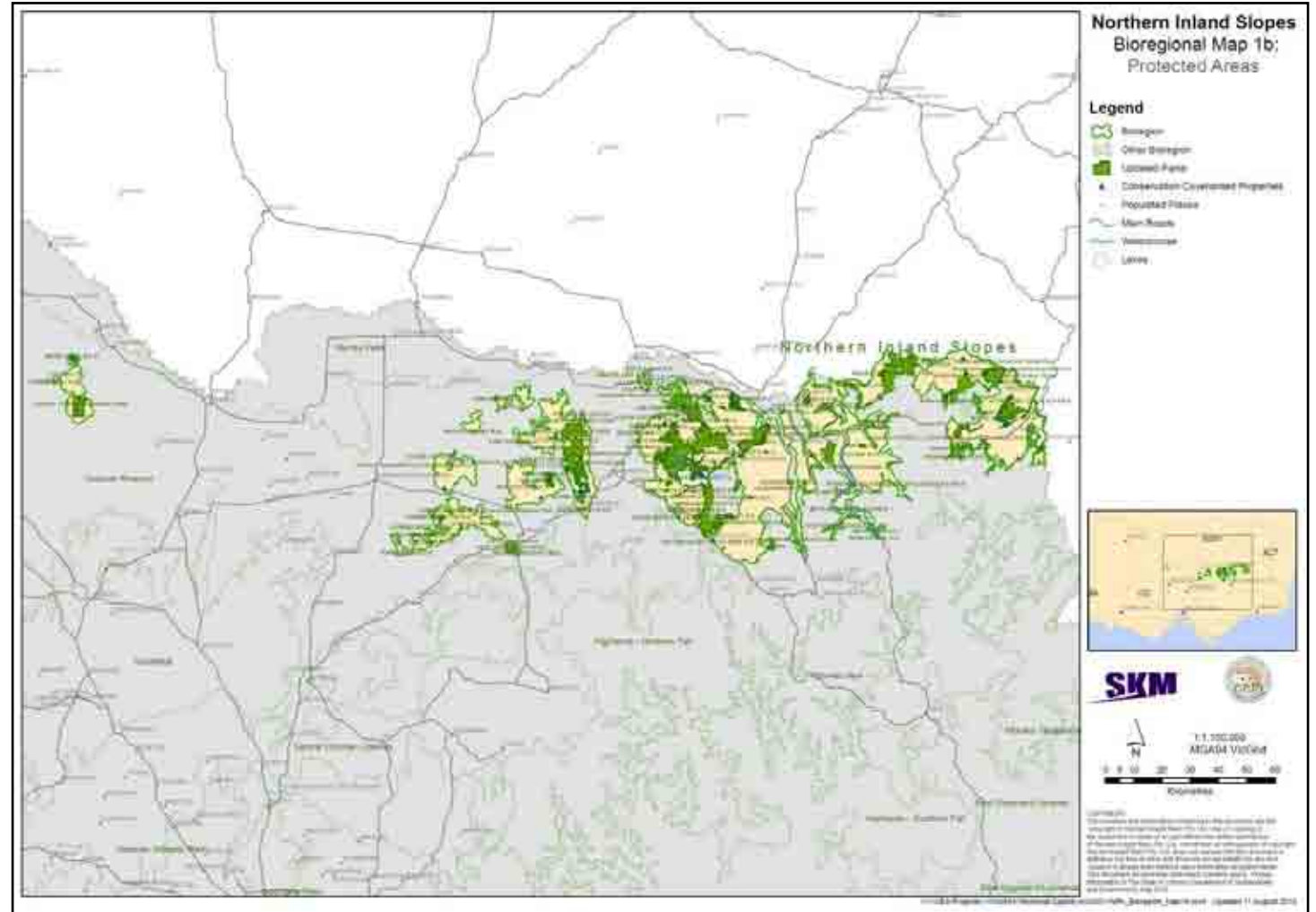


Figure 20-2 Protected Areas – Northern Inland Slopes

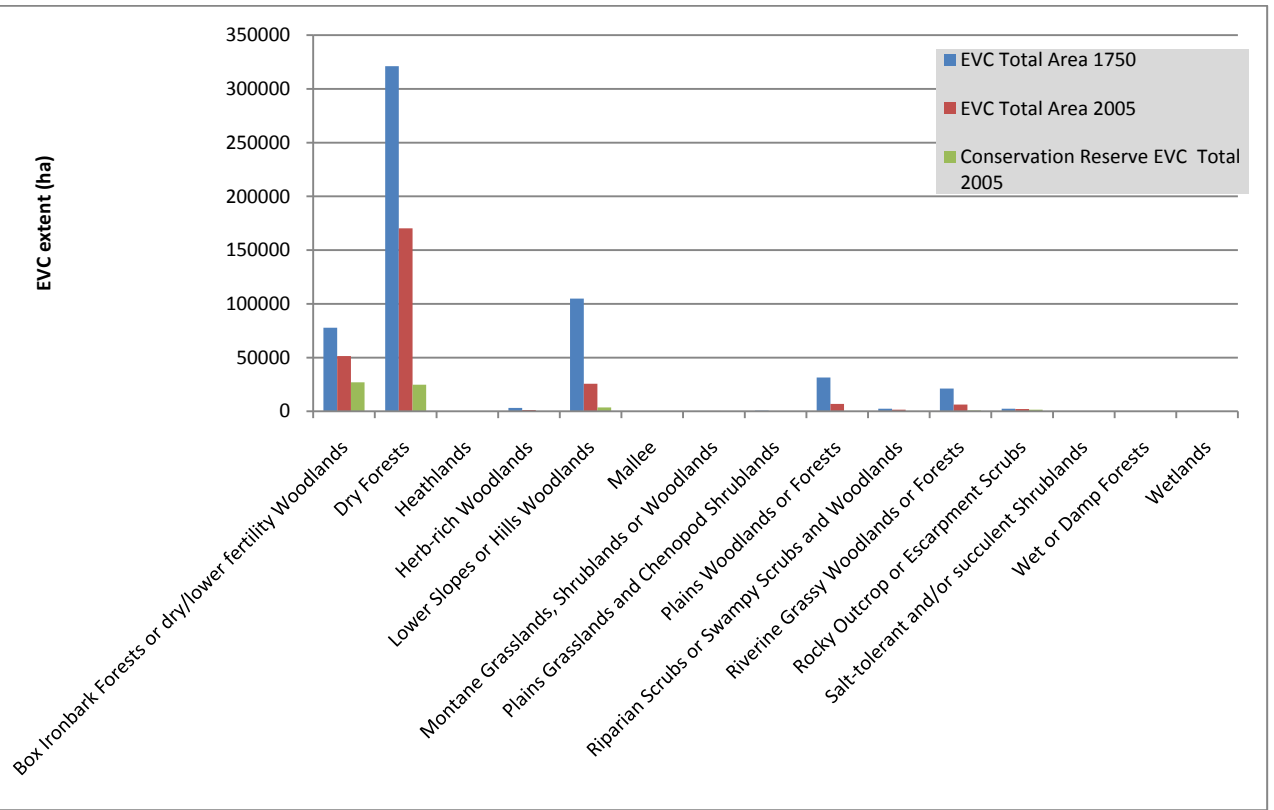


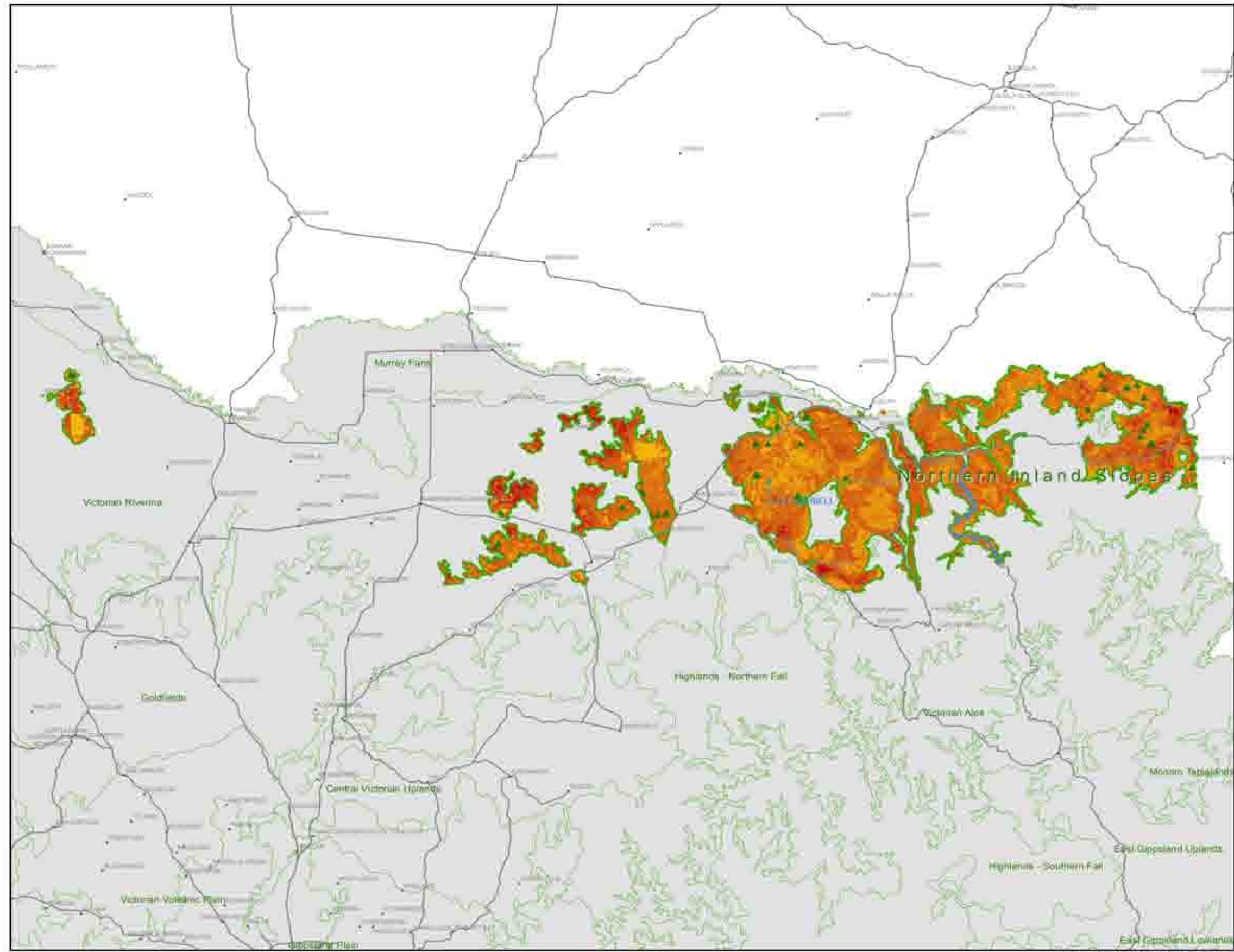
Figure 20-1 EVC Group Breakdown

Native vegetation in the Bioregion is largely comprised of Ecological Vegetation Classes (EVC) Mosaics and Complexes, with 38 recorded in the region. An additional 26 EVCs are also present. Of the 64 EVCs, 40 have a Bioregional Conservation Status (BCS) of Endangered. The Bioregion has been largely cleared for agriculture and forestry, with 47% of the pre-1750 EVCs remaining. Only 22% of the remaining vegetation is protected on conservation land. The Commonwealth Environment Protection and Biodiversity Conservation (EPBC) Act listed Endangered Regent Honeyeater (*Xanthomyza phrygia*) is known within the Bioregion, as well as a large number of State Flora and Fauna Guarantee Act listed species, including Swift Parrot (*Lathamus discolor*), Carpet Python (*Morelia spilota*), Squirrel Glider (*Petaurus norfolcensis*), Brush-tailed Phascogale (*Phascogale tapoatafa*), Turquoise Parrot (*Neophema pulchella*), Grey-crowned Babbler (*Pomatostomus temporalis*), Warby Swamp Gum (*Eucalyptus cadens*), Dookie Daisy (*Brachyscome aff. gracilis*) and Narrow Goodenia (*Goodenia macbarronii*). The major land uses for the area are agricultural and forestry, dominated by sheep and cattle grazing and dairy farming. Ongoing threats to the region include grazing pressure, increasing fragmentation, salinity and environmental weeds. Climate change is expected to have an effect on the region, with shorter, drier winters and longer, hotter summers, worsening the biodiversity losses already incurred in the Bioregion.





Terrestrial Biodiversity Review



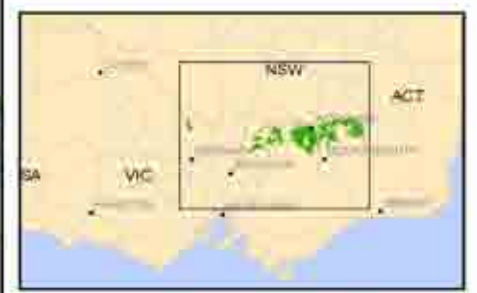
**Northern Inland Slopes
Bioregional Map 1a:
Landscape Priorities**

Legend

- Bioregion
- Other Bioregion
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes

Landscape Importance

High : 20
Low : 1



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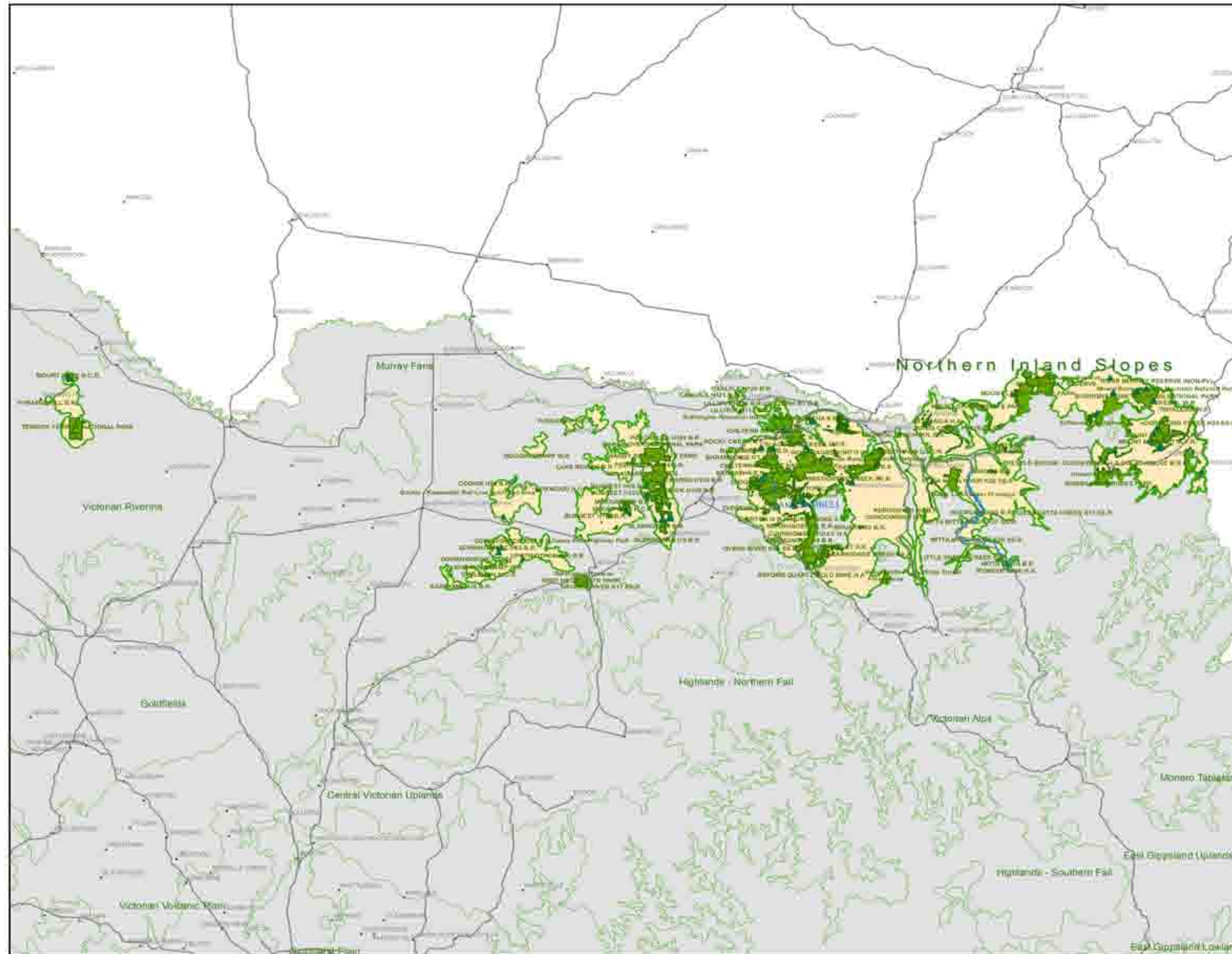
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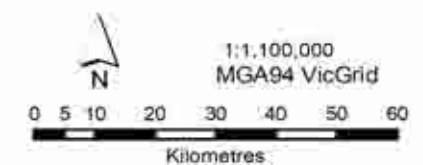
**Northern Inland Slopes
Bioregional Map 1b:
Protected Areas**

Legend

- Bioregion
- Other Bioregion
- Updated Parks
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes



SKM



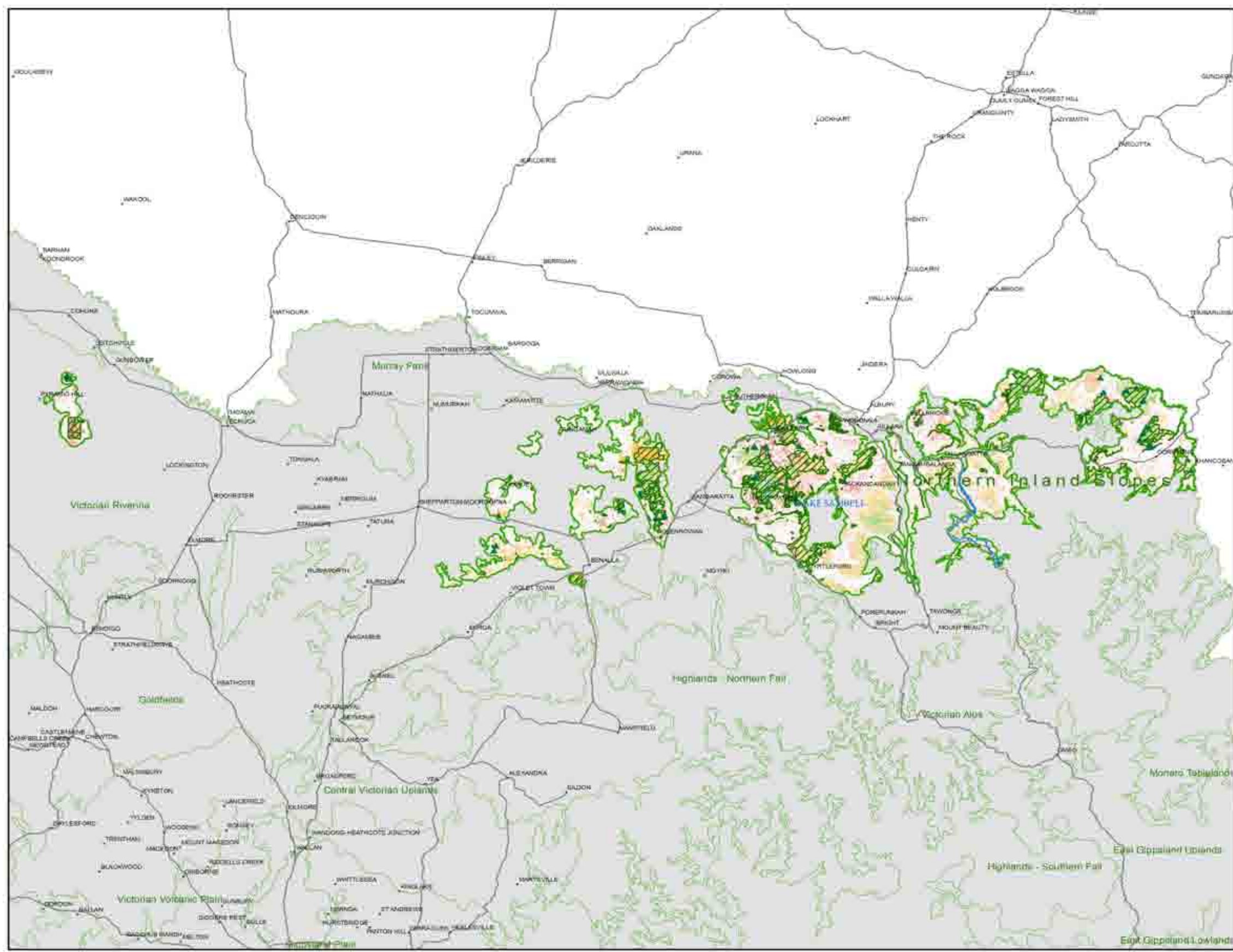
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Terrestrial Biodiversity Review



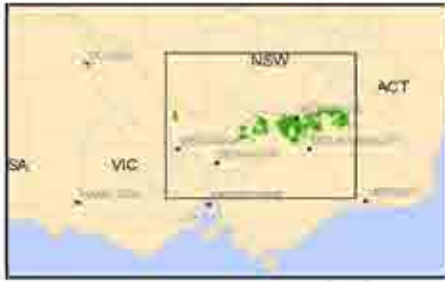
**Northern Inland Slopes
Bioregional Map 2a:
Vegetation Conservation
Significance**

Legend

- Bioregion
- Other Bioregion
- Updated Parks
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes

EVC Bioregional Conservation Status

- Endangered
- Vulnerable
- Depleted
- Rare
- Least Concern



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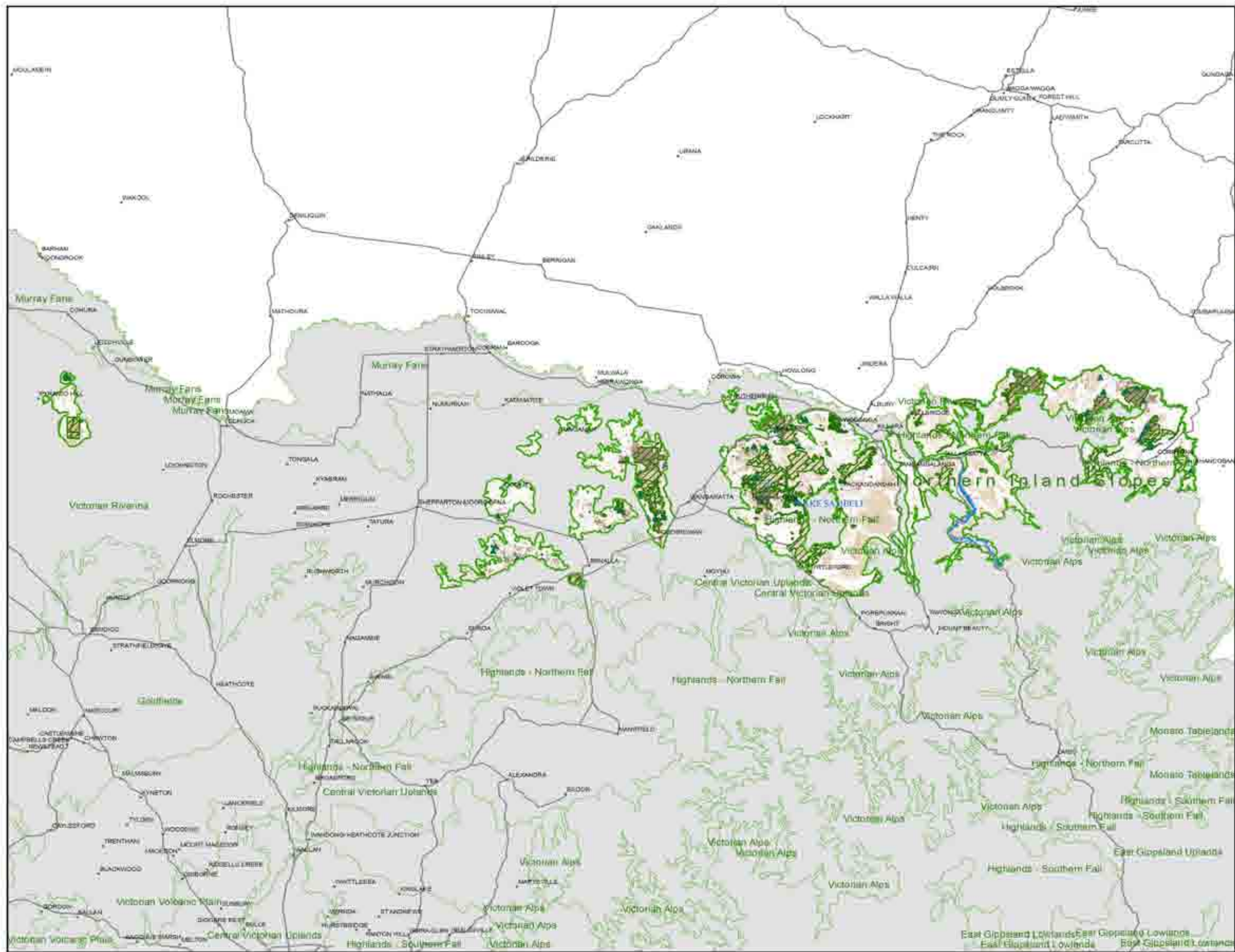
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Terrestrial Biodiversity Review

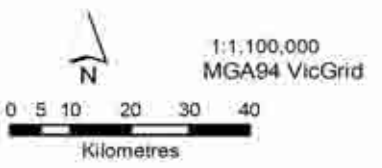


**Northern Inland Slopes
Bioregional Map 2b:
EVC Groups**

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- EVC Group**
- Coastal Scrubs Grasslands and Woodlands
 - Healthy Woodlands
 - Lowland Forests
 - Box Ironbark Forests or dryflower fertility Woodlands
 - Lower Slopes or Hills Woodlands
 - Dry Forests
 - Wet or Damp Forests
 - Riparian Scrubs or Swampy Scrubs and Woodlands
 - Rainforests
 - Montane Grasslands, Shrublands or Woodlands
 - Sub-alpine Grasslands, Shrublands or Woodlands
 - Plains Grasslands and Chenopod Shrublands
 - Plains Woodlands or Forests
 - Riverine Grassy Woodlands or Forests
 - Herb-rich Woodlands
 - Heathlands
 - Mallee
 - Wetlands
 - Salt-tolerant and/or succulent Shrublands
 - Rocky Outcrop or Escarpment Scrubs
 - No native vegetation recorded



SKM



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Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
NIS	7	Clay Heathland	16	Heathlands	Vulnerable	7	0	0	0	0	0	0	5	0	5	72.9	0.0	0.0
NIS	18	Riparian Forest	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Depleted	282	28	79	106	85	0	28	0	38	229	81.3	46.4	37.7
NIS	19	Riparian Shrubland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Depleted	456	219	0	219	73	0	219	0	68	360	78.9	60.7	47.9
NIS	20	Heathy Dry Forest	6	Dry Forests	Least Concern	14032	8025	1835	9860	710	0	8025	0	2505	13074	93.2	75.4	70.3
NIS	21	Shrubby Dry Forest	6	Dry Forests	Least Concern	1370	45	611	656	64	0	45	0	434	1153	84.2	56.9	47.9
NIS	22	Grassy Dry Forest	6	Dry Forests	Depleted	143393	11781	29349	41129	6579	0	11781	0	49689	97397	67.9	42.2	28.7
NIS	23	Herb-rich Foothill Forest	6	Dry Forests	Least Concern	26584	796	8922	9718	1581	0	796	0	8474	19773	74.4	49.1	36.6
NIS	28	Rocky Outcrop Shrubland	20	Rocky Outcrop or Escarpment Scrubs	Vulnerable	818	343	0	343	30	0	343	0	366	739	90.3	46.4	41.9
NIS	29	Damp Forest	7	Wet or Damp Forests	Least Concern	0	0	0	0	0	0	0	0	0	0	92.8	0.0	0.0
NIS	30	Wet Forest	7	Wet or Damp Forests	Least Concern	12	0	12	12	0	0	0	0	0	12	100.0	100.0	100.0
NIS	36	Montane Dry Woodland	10	Montane Grasslands, Shrublands or Woodlands	Least Concern	280	9	272	280	0	0	9	0	0	280	100.0	100.0	100.0
NIS	38	Montane Damp Forest	7	Wet or Damp Forests	Least Concern	52	0	52	52	0	0	0	0	0	52	100.0	100.0	100.0
NIS	47	Valley Grassy Forest	6	Dry Forests	Endangered	133044	4171	797	4968	1694	0	4171	0	31947	38610	29.0	12.9	3.7
NIS	55	Plains Grassy Woodland	13	Plains Woodlands or Forests	Endangered	8171	29	7	36	88	0	29	0	1144	1268	15.5	2.8	0.4
NIS	56	Floodplain Riparian Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	14022	481	11	492	865	0	481	0	1832	3190	22.7	15.4	3.5
NIS	61	Box Ironbark Forest	4	Box Ironbark Forests or dry/lower fertility Woodlands	Vulnerable	36999	6525	0	6525	62	0	6525	0	10774	17361	46.9	37.6	17.6
NIS	67	Alluvial Terraces Herb-rich Woodland	15	Herb-rich Woodlands	Endangered	1670	39	0	39	3	0	39	0	337	380	22.7	10.3	2.3
NIS	68	Creekline Grassy Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	4358	207	14	221	832	0	207	0	1280	2333	53.5	9.5	5.1
NIS	72	Granitic Hills Woodland	4	Box Ironbark Forests or dry/lower fertility Woodlands	Least Concern	35672	17986	136	18122	1931	0	17986	0	10149	30202	84.7	60.0	50.8
NIS	73	Rocky Outcrop Shrubland/Rocky Outcrop Herbland Mosaic	20	Rocky Outcrop or Escarpment Scrubs	Vulnerable	1426	1109	126	1235	30	0	1109	0	90	1355	95.0	91.2	86.6
NIS	74	Wetland Formation	18	Wetlands	Endangered	226	1	0	1	1	0	1	0	44	46	20.3	1.9	0.4
NIS	76	Grassy Woodland/Alluvial Terraces Herb-rich Woodland Mosaic	5	Lower Slopes or Hills Woodlands		344	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
NIS	79	Alluvial Terraces Herb-rich Woodland/Heathy Dry Forest Mosaic	15	Herb-rich Woodlands	Endangered	81	56	0	56	0	0	56	0	10	66	81.6	85.0	69.3
NIS	80	Spring Soak Woodland	5	Lower Slopes or Hills Woodlands	Endangered	174	9	0	9	0	0	9	0	67	77	44.0	12.1	5.3
NIS	81	Alluvial Terraces Herb-rich Woodland/Creekline Grassy Woodland Mosaic	15	Herb-rich Woodlands	Endangered	448	95	0	95	2	0	95	0	185	282	62.8	33.8	21.2
NIS	82	Riverine Escarpment Scrub	20	Rocky Outcrop or Escarpment Scrubs	Endangered	110	7	29	36	19	0	7	0	38	93	85.0	38.6	32.8
NIS	83	Swampy Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	604	134	23	157	8	0	134	0	170	335	55.5	46.9	26.0
NIS	84	Riparian Forest/Swampy Riparian Woodland/Riparian Shrubland/Riverine Escarpment Scrub Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Depleted	168	0	11	11	8	0	0	0	28	47	27.7	22.8	6.3
NIS	93	Sandstone Ridge Shrubland	17	Mallee	Vulnerable	31	1	0	1	0	0	1	0	23	24	78.6	4.4	3.5
NIS	101	Samphire Shrubland	19	Salt-tolerant and/or succulent Shrublands	Least Concern	18	0	0	0	4	0	0	0	1	5	28.0	0.0	0.0
NIS	103	Riverine Chenopod Woodland	14	Riverine Grassy Woodlands or Forests		0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
NIS	110	Riverine Chenopod Woodland/Plains Grassland Mosaic	14	Riverine Grassy Woodlands or Forests	Endangered	58	0	0	0	1	0	0	0	29	30	51.0	0.0	0.0
NIS	125	Plains Grassy Wetland	18	Wetlands	Endangered	13	0	0	0	0	0	0	3	0	3	19.9	0.0	0.0
NIS	132	Plains Grassland	12	Plains Grasslands and Chenopod Shrublands	Endangered	638	7	0	7	18	0	7	0	165	191	30.0	3.9	1.2
NIS	152	Alluvial Terraces Herb-rich Woodland/Plains Grassy Woodland Complex	15	Herb-rich Woodlands	Endangered	57	21	0	21	0	0	21	0	11	31	54.7	66.2	36.2
NIS	153	Alluvial Terraces Herb-rich Woodland/Valley Grassy Forest Complex	15	Herb-rich Woodlands	Endangered	916	8	0	8	17	0	8	0	410	435	47.5	1.9	0.9
NIS	168	Drainage-line Aggregate	14	Riverine Grassy Woodlands or Forests	Endangered	0	0	0	0	0	0	0	0	3	4	0.0	0.0	0.0
NIS	172	Floodplain Wetland Aggregate	18	Wetlands	Vulnerable	0	0	0	0	1	0	0	0	3	5	0.0	0.0	0.0
NIS	175	Grassy Woodland	5	Lower Slopes or Hills Woodlands	Endangered	104352	3663	73	3736	1089	0	3663	0	20688	25512	24.4	14.6	3.6
NIS	186	Plains Grassy Woodland/Floodplain Riparian Woodland Complex	13	Plains Woodlands or Forests	Endangered	7782	26	26	52	973	0	26	0	1936	2960	38.0	1.7	0.7

Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
NIS	187	Plains Grassy Woodland/Grassy Woodland Complex	13	Plains Woodlands or Forests	Endangered	2634	0	0	0	49	0	0	0	313	362	13.7	0.1	0.0
NIS	188	Plains Grassy Woodland/Valley Grassy Forest Complex	13	Plains Woodlands or Forests	Endangered	1912	3	0	3	14	0	3	0	375	392	20.5	0.8	0.2
NIS	190	Plains Grassy Woodland/Valley Grassy Forest/Grassy Woodland Complex	13	Plains Woodlands or Forests	Endangered	2339	2	0	2	12	0	2	0	478	492	21.0	0.5	0.1
NIS	213	Valley Grassy Forest/Box Ironbark Forest Complex	6	Dry Forests		905	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
NIS	234	Plains Grassy Woodland/Grassy Woodland Mosaic	13	Plains Woodlands or Forests	Endangered	0	0	0	0	0	0	0	4	0	4	0.0	0.0	0.0
NIS	234	Plains Grassy Woodland/Grassy Woodland Mosaic	13	Plains Woodlands or Forests		21	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
NIS	235	Plains Woodland/Herb-rich Gilgai Wetland Mosaic	13	Plains Woodlands or Forests	Endangered	0	40	0	40	0	0	40	0	226	266	0.0	15.1	0.0
NIS	235	Gilgai Plain Woodland/Wetland Mosaic	13	Plains Woodlands or Forests		1543	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
NIS	237	Riparian Forest/Swampy Riparian Woodland Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Depleted	919	10	3	13	140	0	10	0	170	324	35.2	4.0	1.4
NIS	238	Plains Grassy Woodland/Creekline Grassy Woodland/Floodplain Riparian Woodland Mosaic	13	Plains Woodlands or Forests	Endangered	0	0	0	0	0	0	0	7	0	7	0.0	0.0	0.0
NIS	238	Plains Grassy Woodland/Creekline Grassy Woodland/Floodplain Riparian Woodland Mosaic	13	Plains Woodlands or Forests		74	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
NIS	240	Plains Grassy Woodland/Creekline Grassy Woodland/Wetland Formation Mosaic	13	Plains Woodlands or Forests		0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
NIS	244	Granitic Hills Woodland/Rocky Outcrop Shrubland/Rocky Outcrop Hermland Mosaic	4	Box Ironbark Forests or dry/lower fertility Woodlands	Least Concern	3953	2503	0	2503	108	0	2503	0	1041	3653	92.4	68.5	63.3
NIS	247	Box Ironbark Forest/Grassy Woodland Complex	4	Box Ironbark Forests or dry/lower fertility Woodlands	Vulnerable	1170	1	0	1	1	0	1	0	135	136	11.6	0.4	0.0
NIS	250	Floodplain Riparian Woodland/Plains Grassy Woodland Mosaic	14	Riverine Grassy Woodlands or Forests	Endangered	2395	153	0	153	0	0	153	0	390	543	22.7	28.2	6.4
NIS	251	Grassy Woodland/Valley Grassy Forest Mosaic	6	Dry Forests	Endangered	1809	0	0	0	24	0	0	0	256	280	15.5	0.1	0.0
NIS	255	Riverine Grassy Woodland/Sedgy Riverine Forest/Wetland Formation Mosaic	14	Riverine Grassy Woodlands or Forests		132	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
NIS	259	Plains Grassy Woodland/Gilgai Wetland Mosaic	13	Plains Woodlands or Forests	Endangered	1093	0	0	0	7	0	0	0	116	123	11.2	0.0	0.0
NIS	268	Valley Grassy Forest/Grassy Woodland Complex	6	Dry Forests		23	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
NIS	268	Valley Grassy Forest/Grassy Woodland Complex	6	Dry Forests	Endangered	23	5	0	5	0	0	5	0	1	7	29.2	78.5	22.9
NIS	291	Cane Grass Wetland	18	Wetlands	Vulnerable	9	6	0	6	0	0	6	0	2	8	88.6	74.7	66.2
NIS	292	Red Gum Swamp	18	Wetlands	Endangered	0	50	0	50	0	0	50	0	4	54	0.0	92.3	0.0
NIS	292	Red Gum Wetland	18	Wetlands		93	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
NIS	295	Riverine Grassy Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	0	0	0	0	1	0	0	0	1	2	0.0	0.0	0.0
NIS	333	Red Gum Swamp/Plains Grassy Wetland Mosaic	18	Wetlands	Endangered	0	0	0	0	0	0	0	1	0	1	0.0	0.0	0.0
NIS	333	Red Gum Wetland/Plains Grassy Wetland Mosaic	18	Wetlands		2	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
NIS	334	Billabong Wetland Aggregate	18	Wetlands	Vulnerable	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
NIS	803	Plains Woodland	13	Plains Woodlands or Forests	Endangered	4694	21	0	21	26	0	21	0	886	933	19.9	2.3	0.5
NIS	815	Riverine Swampy Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	0	0	0	0	0	0	0	1	0	1	0.0	0.0	0.0
NIS	823	Lignum Swampy Woodland	14	Riverine Grassy Woodlands or Forests	Vulnerable	175	0	0	0	72	0	0	0	62	134	76.5	0.0	0.0
NIS	826	Plains Savannah	12	Plains Grasslands and Chenopod Shrublands	Endangered	4	0	0	0	0	0	0	4	0	4	92.3	0.0	0.0
NIS	867	Shallow Sands Woodland/Plains Woodland Mosaic	13	Plains Woodlands or Forests	Endangered	339	0	0	0	1	0	0	0	34	35	10.4	0.0	0.0
NIS	882	Shallow Sands Woodland	13	Plains Woodlands or Forests	Endangered	808	3	0	3	0	0	3	0	68	71	8.8	4.5	0.4
NIS	937	Swampy Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	0	5	1	6	25	0	5	0	94	125	0.0	5.2	0.0
NIS	943	Lignum Swampy Woodland/Plains Grassland Mosaic	14	Riverine Grassy Woodlands or Forests	Endangered	42	0	0	0	0	0	0	13	0	13	31.0	0.0	0.0
NIS	1040	Riverine Grassy Woodland/Riverine Swampy Woodland Mosaic	14	Riverine Grassy Woodlands or Forests	Endangered	0	0	0	0	8	0	0	0	36	44	0.0	0.0	0.0
NIS	1085	Mountain Valley Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	0	3	0	3	47	0	3	0	7	57	0.0	5.9	0.0
Total						565,780	58,626	42,390	101,016	17,305	0	58,626	37	147,634	265,992	47.0%	22.0%	10.4%



21. East Gippsland Lowlands

Bioregion size: 522 006 ha
 Native vegetation cover: 464 366 ha (88%)
 Conservation reserve cover (excludes State Forests): 122 741 ha (26%)

While 88% of the native vegetation remains in the Bioregion, most of the vegetation is located on non-conservation public land. Little Endangered EVC remains in the Bioregion. Conservation of available Riparian vegetation will maintain connectivity in the Bioregion, while increased conservation protection for vegetation in State Forests is recommended.

The East Gippsland Lowlands Bioregion (EGL) covers approximately 522 006 ha, from Stratford, stretching to the Australian east coast and encompassing most of the south-east coast of Victoria. Orbost is the major municipality in the region and several major streams drain the area including the Mitchell, Nicholson, Tambo and Snowy Rivers. The region has gently undulating terraces flanked by coastal plains, dunefields and inlets, dominated by Lowland Forest with Damp Forest and Shrubby Dry Forest. Coastal areas support Banksia Woodland and Riparian Scrub Complex. The East Gippsland Lowlands is SEC1 of South East Corner Interim Biogeographic Regionalisation of Australia (IBRA) Bioregion. The majority of the region falls in the East Gippsland Catchment Management Authority (CMA) area, with a small area falling within the West Gippsland CMA area. Under the proposed alignment of new Natural Resources & Catchment Authorities (NRCA) to be implemented in 2011, both the East Gippsland CMA and the West Gippsland CMA will form part of the Gippsland NRCA. A number of large national parks are located within the Bioregion including the Mitchell River National Park and the Croajingolong National Park. The Bioregion supports 49 Ecological Vegetation Classes (EVCs) and EVC complexes or mosaics. Twelve (12) of the 49 EVCs present have a Bioregional Conservation Status (BCS) of Endangered. The Bioregion is largely intact with 88% of the pre-1750 EVCs remaining, however, only 26% of the remaining vegetation is protected on conservation land.

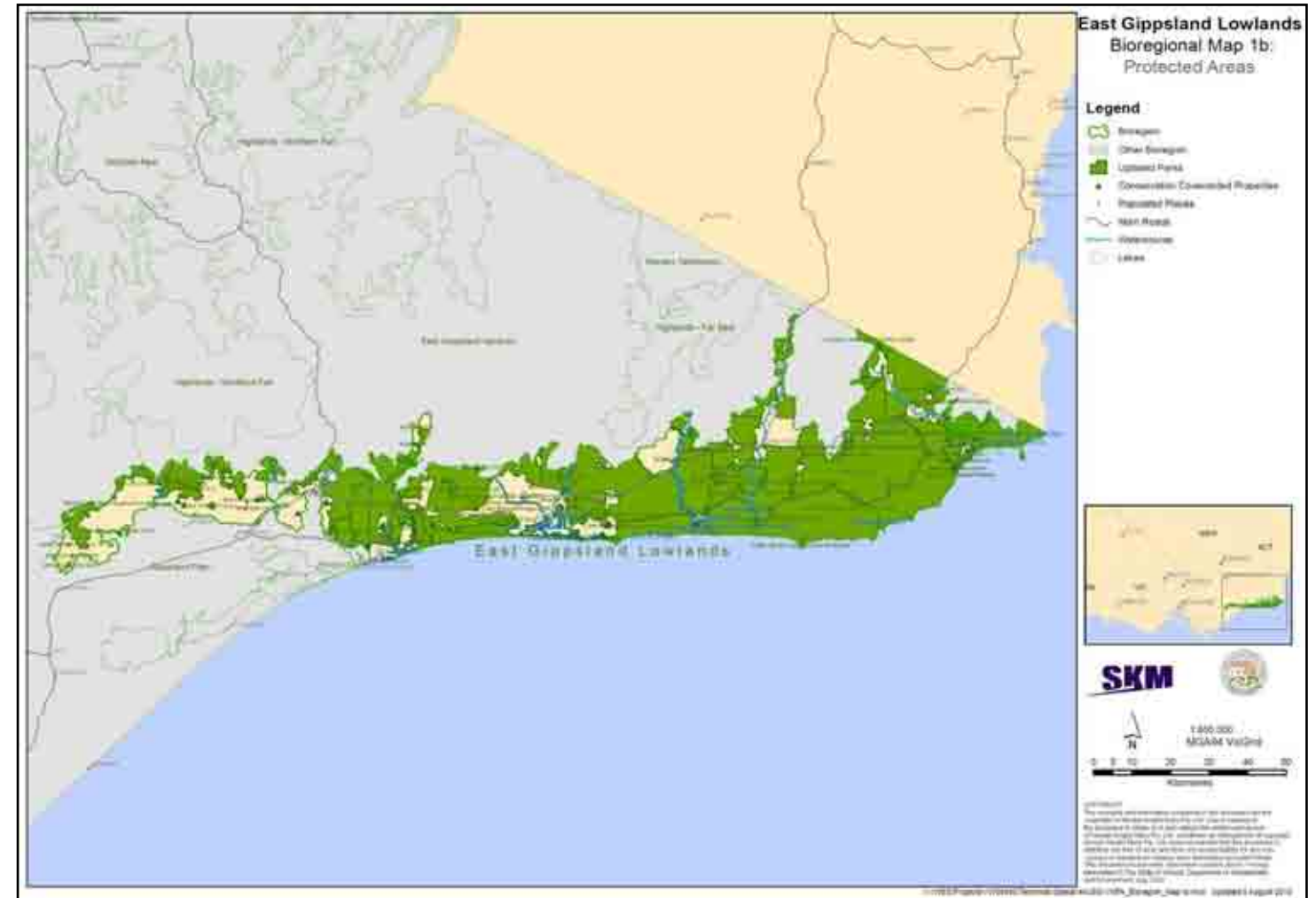


Figure 21-2 Protected Areas – East Gippsland Lowlands

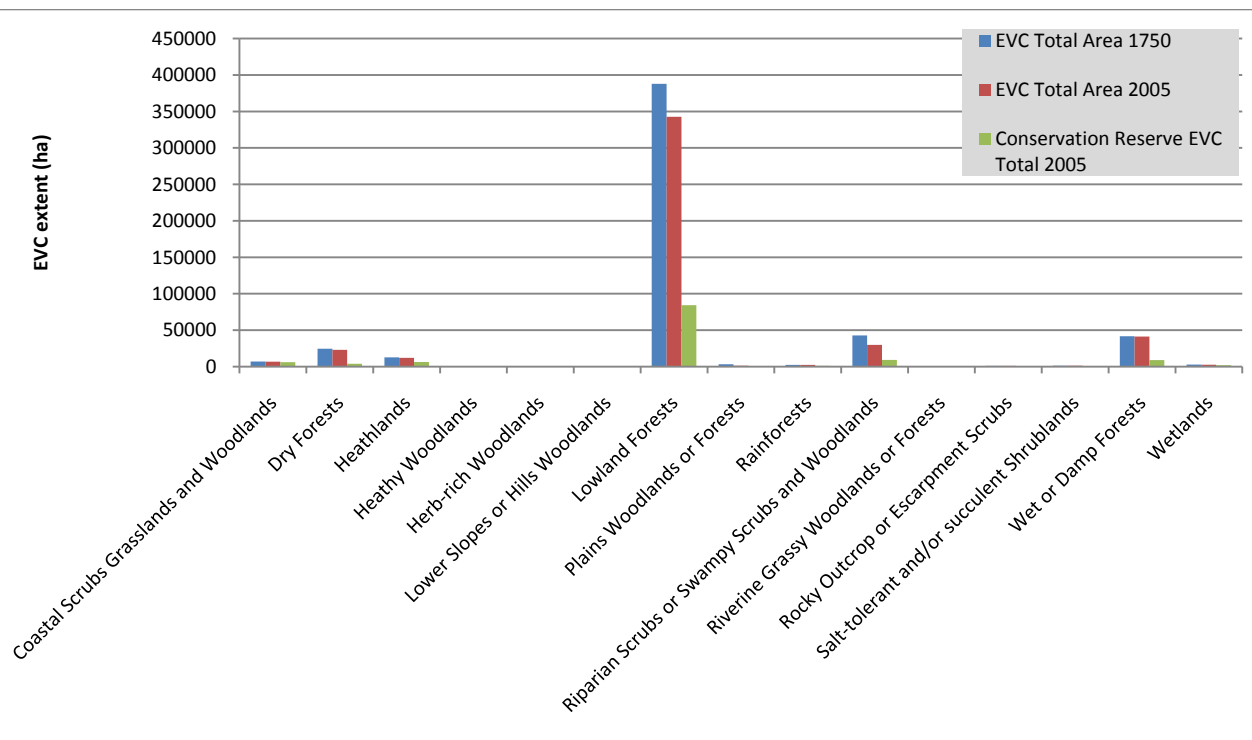
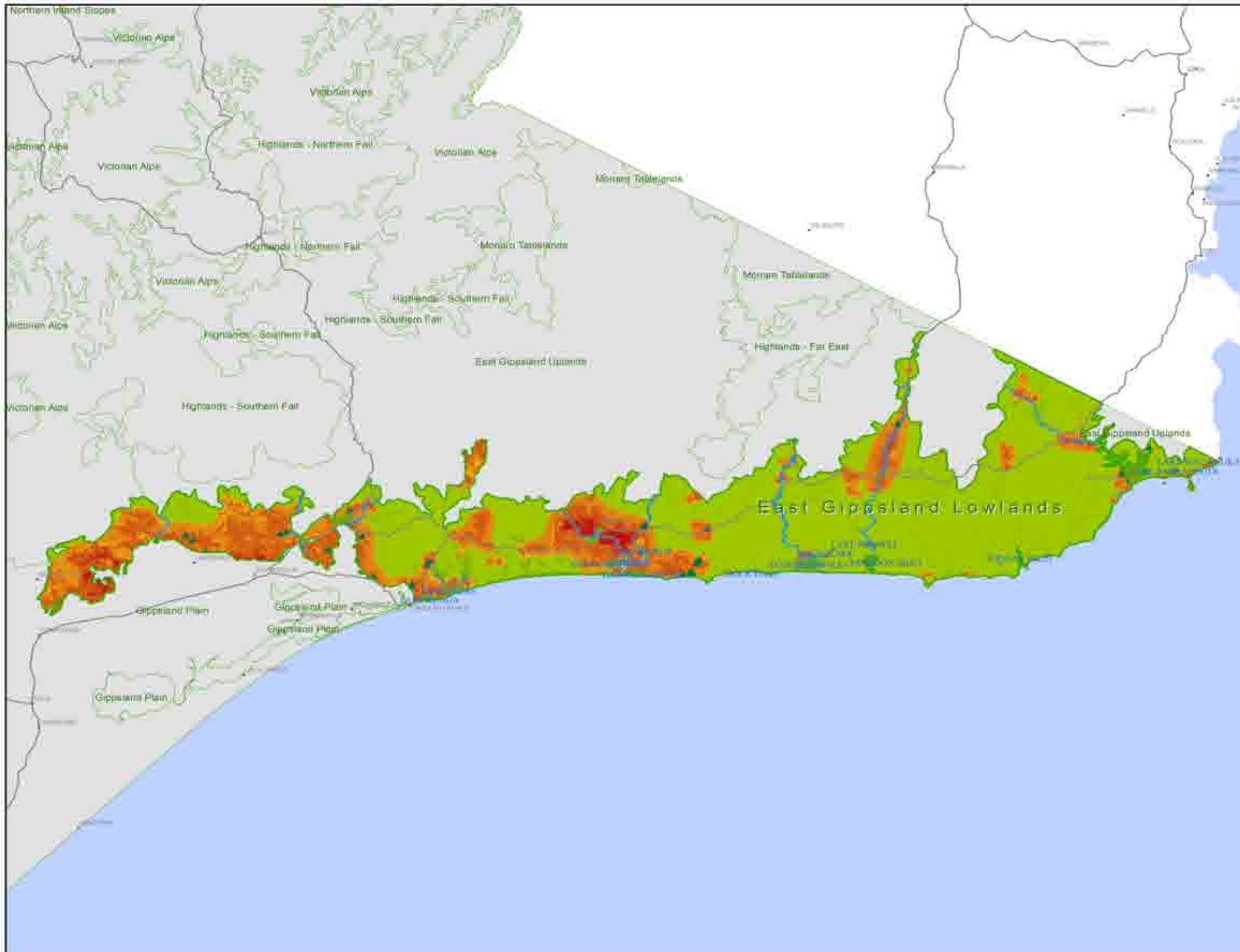


Figure 21-1 EVC Group Breakdown

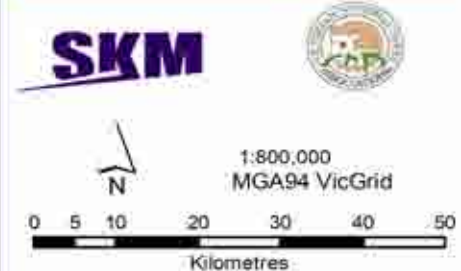
Significantly, the native vegetation in East Gippsland is continuous between the alpine environments of the East Gippsland Uplands and the coastal environments of the East Gippsland Lowlands, the only region on mainland Australia where this occurs. The Bioregion is known to provide habitat for a number of nationally significant species including Southern Right Whale (*Eubalaena australis*), listed as Endangered under the Commonwealth Environment Protection and Biodiversity Conservation (EPBC) Act, Leatherback Turtle (*Dermodochelys coriacea*), listed as Endangered, Smoky Mouse (*Psedomys fumeus*), listed as Endangered and also listed under the State Flora and Fauna Guarantee (FFG) Act, and Growing Grass Frog (*Litoria raniformis*), Humpback Whale (*Megaptera novaeangliae*), Australian Grayling (*Prototroctes maraena*) and Great White Shark (*Carcharodon carcharias*), all listed as Vulnerable. Eight (8) migratory species and nine (9) listed marine species are also known in the Bioregion. The Bioregion also supports a number of other FFG listed species including Eastern Bristlebird (*Dasyornis brachypterus*), Ground Parrot (*Pezoporus wallicus*), Regent Honeyeater (*Xanthomyza phrygia*), Long-footed Potoroo (*Potorous longipes*) and Giant Burrowing Frog (*Heleioporus australiacus*). Land use in the region is predominately conservation and timber harvesting. Around settled areas, sheep and cattle grazing are also important. The East Gippsland Lowlands landscape is largely intact and requires careful management of fire regimes and introduced predators, generally foxes, to maintain the high biodiversity values of the area. The coastal areas are also susceptible to the effects of climate change, particularly rising sea levels.



**East Gippsland Lowlands
Bioregional Map 1a:
Landscape Priorities**

Legend

- Bioregion
 - Other Bioregion
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- Landscape Importance**
- High : 20
 - Low : 1



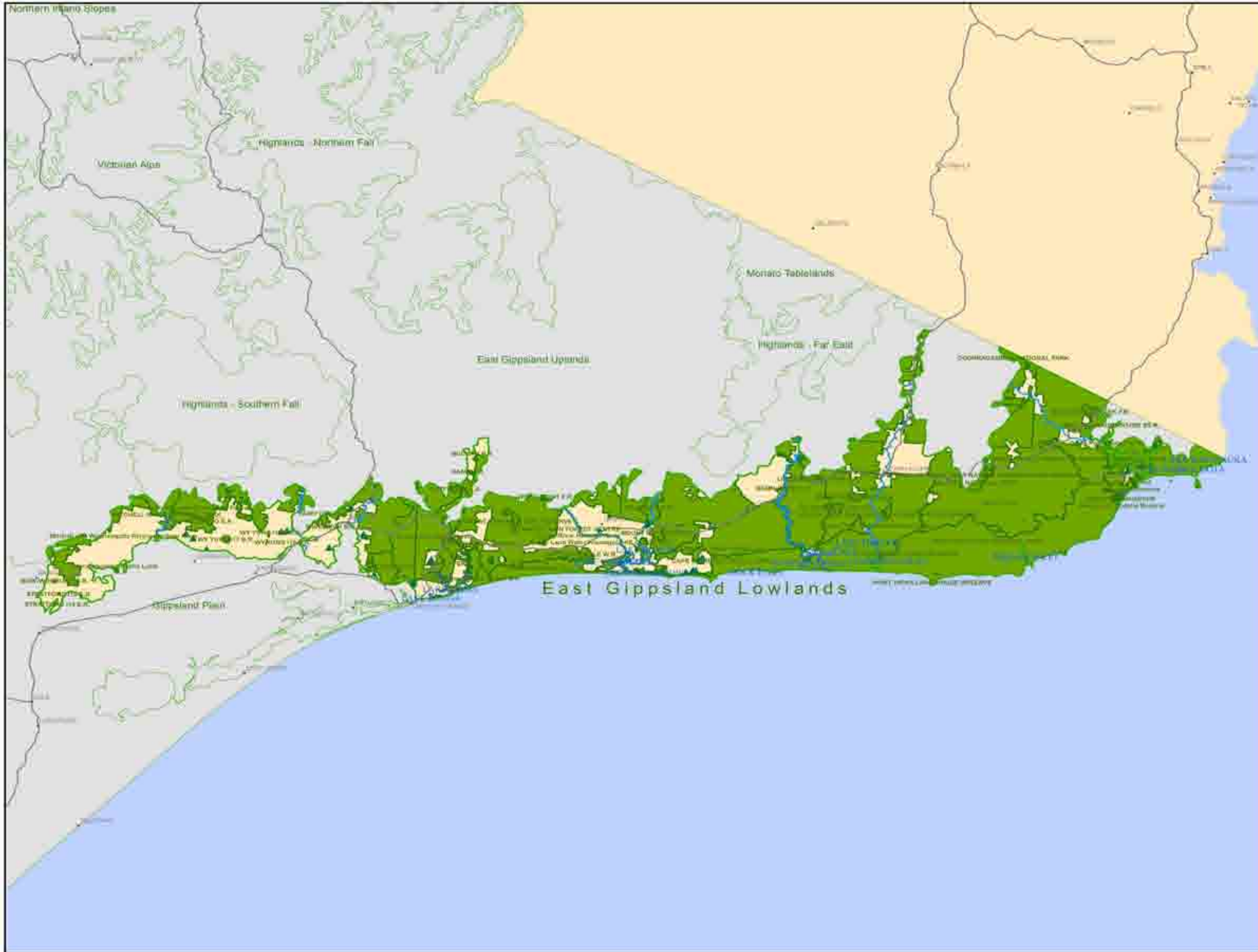
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Terrestrial Biodiversity Review



**East Gippsland Lowlands
Bioregional Map 1b:
Protected Areas**

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes



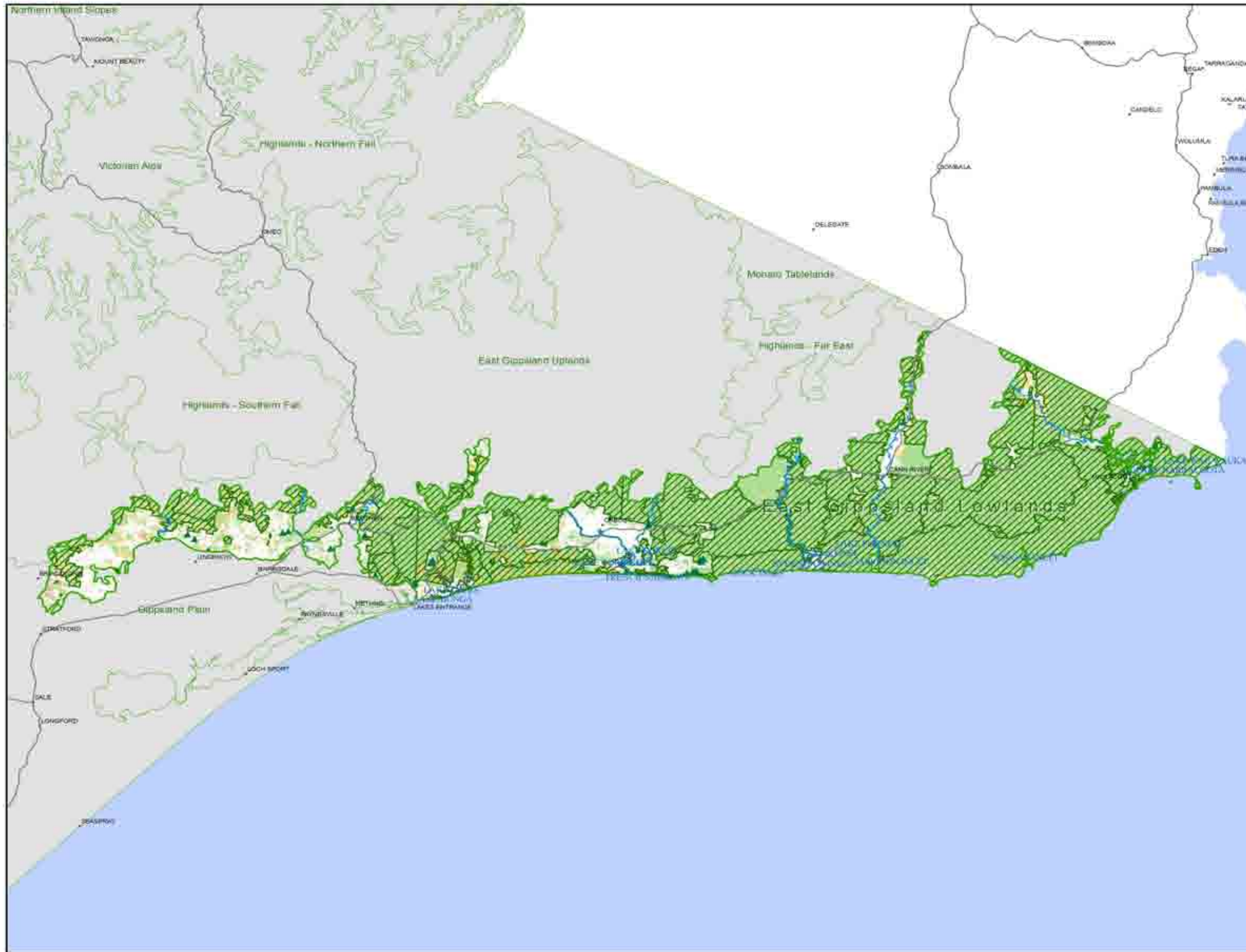
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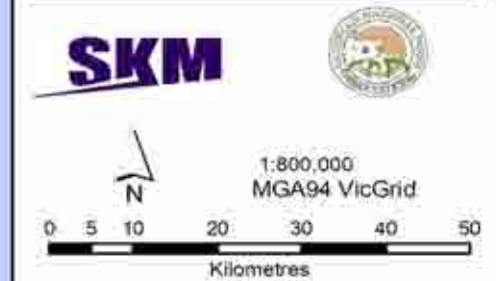
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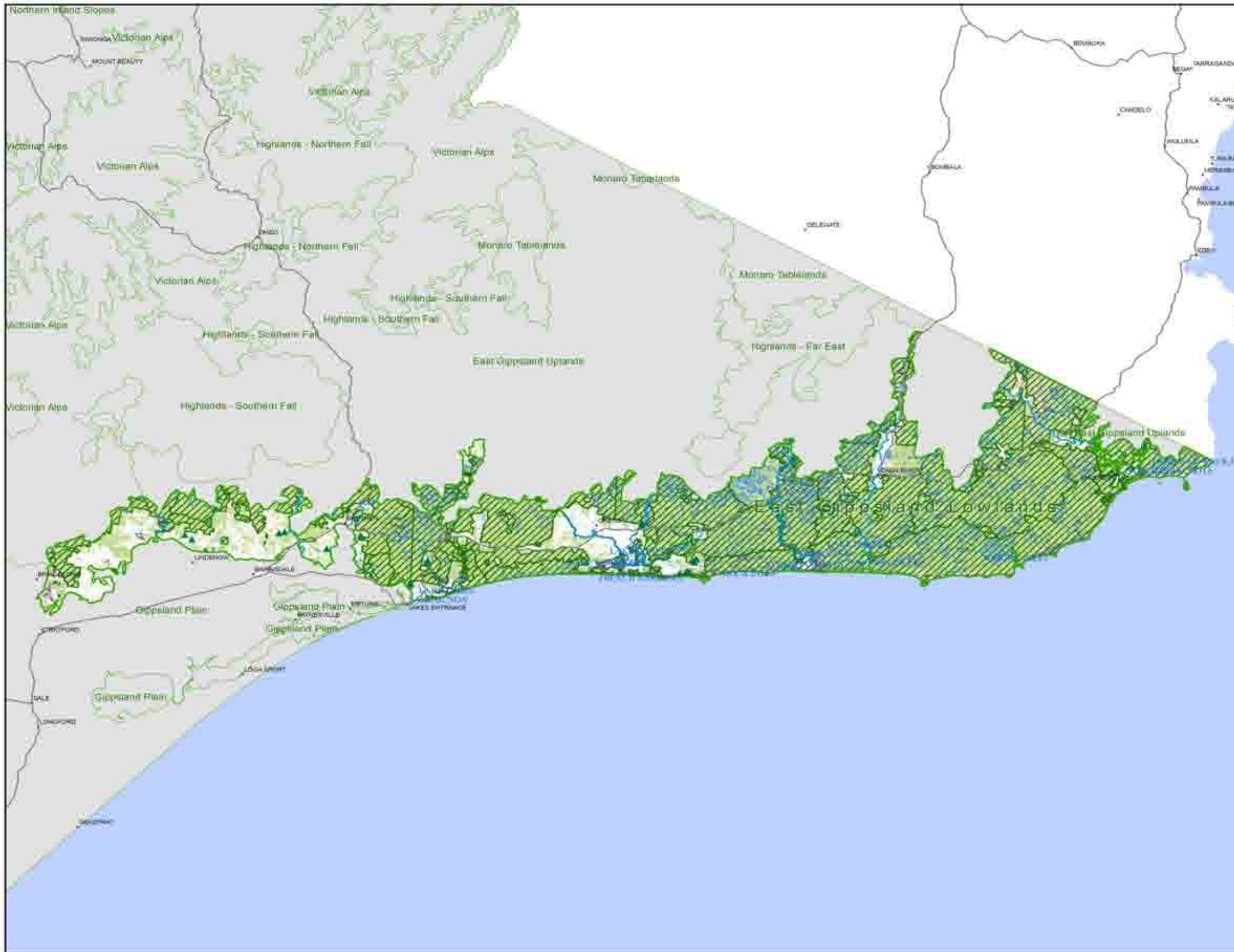
East Gippsland Lowlands Bioregional Map 2a: Vegetation Conservation Significance

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- EVC Bioregional Conservation Status**
- Endangered
 - Vulnerable
 - Depleted
 - Rare
 - Least Concern



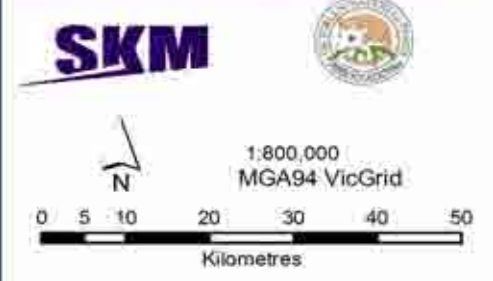
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**East Gippsland Lowlands
Bioregional Map 2b:
EVC Groups**

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- EVC Group**
- Coastal Scrubs Grasslands and Woodlands
 - Healthy Woodlands
 - Lowland Forests
 - Box Ironbark Forests or dry/lower fertility Woodlands
 - Lower Slopes or Hills Woodlands
 - Dry Forests
 - Wet or Damp Forests
 - Riparian Scrubs or Swampy Scrubs and Woodlands
 - Rainforests
 - Montane Grasslands, Shrublands or Woodlands
 - Sub-alpine Grasslands, Shrublands or Woodlands
 - Plains Grasslands and Chenopod Shrublands
 - Plains Woodlands or Forests
 - Riverine Grassy Woodlands or Forests
 - Herb-rich Woodlands
 - Heathlands
 - Mallee
 - Wetlands
 - Salt-tolerant and/or succulent Shrublands
 - Rocky Outcrop or Escarpment Scrubs
 - No native vegetation recorded



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Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
EGL	1	Coastal Dune Scrub/Coastal Dune Grassland Mosaic	1	Coastal Scrubs Grasslands and Woodlands	Least Concern	3407	2926	6	2932	223	0	2926	0	130	3285	96.4	89.3	86.0
EGL	2	Coast Banksia Woodland	1	Coastal Scrubs Grasslands and Woodlands	Least Concern	3461	3237	3	3240	1	0	3237	0	184	3425	99.0	94.6	93.6
EGL	3	Damp Sands Herb-rich Woodland	15	Herb-rich Woodlands	Vulnerable	696	217	0	217	3	0	217	0	175	395	56.8	54.9	31.1
EGL	4	Coastal Vine-rich Forest	9	Rainforests	Vulnerable	90	80	4	84	2	0	80	0	3	88	98.7	94.4	93.2
EGL	5	Coastal Sand Heathland	16	Heathlands	Rare	681	616	0	616	2	0	616	0	61	680	99.8	90.7	90.5
EGL	7	Clay Heathland	16	Heathlands	Vulnerable	1992	491	503	995	107	0	491	0	431	1532	76.9	64.9	49.9
EGL	8	Wet Heathland	16	Heathlands	Least Concern	10041	5123	4180	9302	179	0	5123	0	290	9771	97.3	95.2	92.6
EGL	9	Coastal Saltmarsh	19	Salt-tolerant and/or succulent Shrublands	Depleted	1340	795	9	803	63	0	795	0	390	1256	93.7	63.9	59.9
EGL	10	Estuarine Wetland	18	Wetlands	Vulnerable	856	210	188	398	338	0	210	0	95	832	97.2	47.8	46.5
EGL	11	Coastal Lagoon Wetland	18	Wetlands	Vulnerable	800	645	6	651	32	0	645	0	80	763	95.4	85.3	81.3
EGL	12	Wet Swale Herbland	18	Wetlands	Vulnerable	790	778	0	778	0	0	778	0	12	790	100.0	98.5	98.5
EGL	13	Brackish Sedgeland	18	Wetlands	Vulnerable	194	194	0	194	0	0	194	0	0	194	100.0	100.0	100.0
EGL	14	Banksia Woodland	3	Lowland Forests	Least Concern	40395	23443	13007	36450	289	0	23443	0	2100	38840	96.1	93.8	90.2
EGL	15	Limestone Box Forest	3	Lowland Forests	Vulnerable	8657	2613	1999	4611	234	0	2613	0	1967	6812	78.7	67.7	53.3
EGL	16	Lowland Forest	3	Lowland Forests	Least Concern	313380	57666	186855	244522	7596	0	57666	0	29872	281990	90.0	86.7	78.0
EGL	17	Riparian Scrub/Swampy Riparian Woodland Complex	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	21243	6847	9896	16742	154	0	6847	0	1760	18656	87.8	89.7	78.8
EGL	18	Riparian Forest	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Depleted	20507	2224	4691	6915	875	0	2224	0	2859	10649	51.9	64.9	33.7
EGL	19	Riparian Shrubland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Rare	13	0	11	11	2	0	0	0	0	13	97.2	82.7	80.4
EGL	20	Heathy Dry Forest	6	Dry Forests	Least Concern	436	380	41	421	0	0	380	0	15	436	100.0	96.5	96.5
EGL	21	Shrubby Dry Forest	6	Dry Forests	Least Concern	12348	1984	9011	10995	211	0	1984	0	906	12112	98.1	90.8	89.0
EGL	22	Grassy Dry Forest	6	Dry Forests	Least Concern	3863	793	1977	2771	2	0	793	0	975	3748	97.0	73.9	71.7
EGL	23	Herb-rich Foothill Forest	6	Dry Forests	Least Concern	1	0	1	1	0	0	0	0	0	1	38.3	98.6	37.8
EGL	27	Blackthorn Scrub	20	Rocky Outcrop or Escarpment Scrubs	Rare	244	145	66	210	3	0	145	0	26	240	98.2	87.8	86.2
EGL	28	Rocky Outcrop Shrubland	20	Rocky Outcrop or Escarpment Scrubs	Least Concern	255	212	42	254	0	0	212	0	1	255	100.0	99.7	99.7
EGL	29	Damp Forest	7	Wet or Damp Forests	Least Concern	40025	8697	29469	38166	318	0	8697	0	1211	39695	99.2	96.1	95.4
EGL	30	Wet Forest	7	Wet or Damp Forests	Least Concern	189	13	174	188	0	0	13	0	2	190	100.2	98.9	99.1
EGL	32	Warm Temperate Rainforest	9	Rainforests	Rare	2231	857	1083	1940	74	0	857	0	178	2193	98.3	88.5	86.9
EGL	34	Dry Rainforest	9	Rainforests	Endangered	6	5	0	5	0	0	5	0	0	5	98.9	83.8	82.8
EGL	47	Valley Grassy Forest	6	Dry Forests	Depleted	5386	580	2261	2841	37	0	580	0	1768	4646	86.3	61.1	52.7
EGL	48	Heathy Woodland	2	Heathy Woodlands	Depleted	83	0	83	83	0	0	0	0	0	83	100.0	100.0	100.0
EGL	53	Swamp Scrub	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	301	0	6	6	2	0	0	0	140	148	49.4	3.9	1.9
EGL	55	Plains Grassy Woodland	13	Plains Woodlands or Forests	Endangered	1319	0	0	0	16	0	0	0	630	647	49.1	0.1	0.0
EGL	82	Riverine Escarpment Scrub	20	Rocky Outcrop or Escarpment Scrubs	Rare	515	162	292	454	0	0	162	0	58	513	99.5	88.6	88.2
EGL	125	Plains Grassy Wetland	18	Wetlands	Endangered	19	0	0	0	0	0	0	1	0	1	4.3	0.0	0.0
EGL	133	Limestone Pomaderris Shrubland	20	Rocky Outcrop or Escarpment Scrubs	Endangered	6	0	0	0	0	0	0	2	0	2	25.8	0.0	0.0
EGL	135	Gallery Rainforest	9	Rainforests	Endangered	36	2	0	2	0	0	2	0	30	33	91.9	7.1	6.5
EGL	141	Sandy Flood Scrub	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	9	0	0	0	0	0	0	0	2	2	22.2	0.0	0.0
EGL	151	Plains Grassy Forest	13	Plains Woodlands or Forests	Endangered	2013	24	15	39	21	0	24	0	569	630	31.3	6.3	2.0
EGL	169	Dry Valley Forest	6	Dry Forests	Vulnerable	2415	39	1327	1365	158	0	39	0	514	2037	84.4	67.0	56.5
EGL	175	Grassy Woodland	5	Lower Slopes or Hills Woodlands	Depleted	28	0	0	0	0	0	0	11	0	11	40.4	0.0	0.0
EGL	177	Valley Slopes Dry Forest	6	Dry Forests	Rare	63	60	0	60	0	0	60	0	3	63	100.0	94.6	94.6



Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
EGL	191	Riparian Scrub	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	190	0	190	190	0	0	0	0	0	190	100.0	99.9	99.9
EGL	265	Valley Grassy Forest/Grassy Dry Forest Mosaic	6	Dry Forests	Depleted	7	0	2	2	0	0	0	0	0	2	34.2	84.8	29.0
EGL	316	Shrubby Damp Forest	7	Wet or Damp Forests	Least Concern	1442	166	695	861	254	0	166	0	191	1306	90.6	65.9	59.7
EGL	322	Dry Rainforest/Warm Temperate Rainforest/Gallery Rainforest/Riparian Shrubland/Riverine Escarpment Scrub/Blackthorn Scrub Complex	9	Rainforests	Endangered	60	37	3	40	18	0	37	0	1	59	98.4	67.5	66.4
EGL	334	Billabong Wetland Aggregate	18	Wetlands	Endangered	0	0	0	0	4	0	0	0	9	13	0.0	2.2	0.0
EGL	334	Billabong Wetland	18	Wetlands		65	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
EGL	695	Dry Valley Forest/Swamp Scrub/Warm Temperate Rainforest Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	481	1	0	1	0	0	1	0	50	52	10.8	1.8	0.2
EGL	795	Lowland Forest/Damp Sands Herb-rich Woodland Mosaic	3	Lowland Forests	x	50	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
EGL	863	Floodplain Reedbed	14	Riverine Grassy Woodlands or Forests	Endangered	6	0	0	0	0	0	0	1	0	1	21.6	0.0	0.0
EGL	877	Lowland Herb-rich Forest	3	Lowland Forests	Depleted	25465	479	6457	6936	1194	0	479	0	6951	15080	59.2	46.0	27.2
Total						528,103	122,741	274,552	397,293	12,414	0	122,741	15	54,645	464,366	87.9%	26.4%	23.2%

22. East Gippsland Uplands

Bioregion size: 779 406 ha
 Native vegetation cover: 738 561 ha (93%)
 Conservation reserve cover (excludes State Forests): 268 255 ha (36%)

While over 90% of the native vegetation remains in the Bioregion, most of the vegetation is located on non-conservation public land, particularly EVCs from the Dry Forests, Wet or Damp Forests and Lowland Forests EVC groups. Little Endangered EVC remains in the Bioregion. Increasing the percentage of these vegetation groups under protection is recommended, while protecting remaining Riparian vegetation will help maintain connectivity within the Bioregion.

The East Gippsland Uplands (EGU) covers approximately 779 406 ha, from Stratford stretching east to the 'straight' portion of the Victorian border. The East Gippsland Uplands is composed of tablelands and mountains up to 1400 metres elevation, dominated by Shrubby Dry Forest and Damp Forest on the upland slopes. Wet Forests are restricted to the higher altitudes, while Grassy Woodland, Grassy Dry Forest and Valley Grassy Forest are supported around major river valleys. A number of major river systems run through the area including the Mitchell, Nicholson, Tambo, Buchan and Snowy Rivers. The East Gippsland Uplands Bioregion is Sub-region SEC2 of South East Coast Interim Biogeographic Regionalisation of Australia (IBRA) Bioregion. The Bioregion falls almost entirely within the East Gippsland Catchment Management Authority (CMA) area, with only a small area located within the North East CMA. Under the proposed alignment of new Natural Resource & Catchment Authorities (NRCA) to be implemented in 2011, the East Gippsland CMA will form part of the Gippsland NRCA, while the North East CMA will form part of the Northern Rivers NRCA. The Bioregion is mostly public land with a number of large national parks in the region including Snowy River National Park, Errinundra National Park, Coopracambra National Park and Alpine National Park.

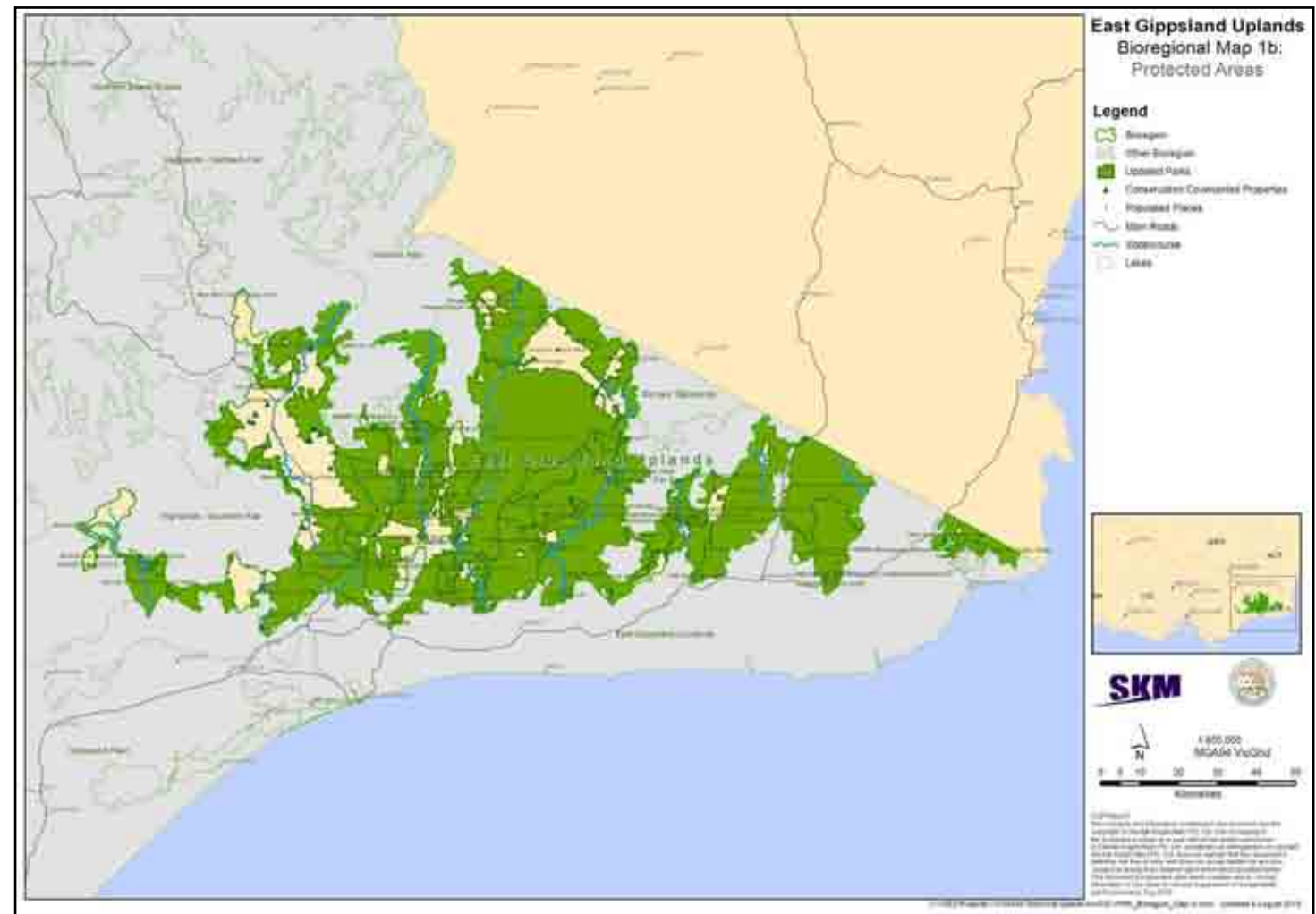


Figure 22-2 Protected Areas – East Gippsland Uplands

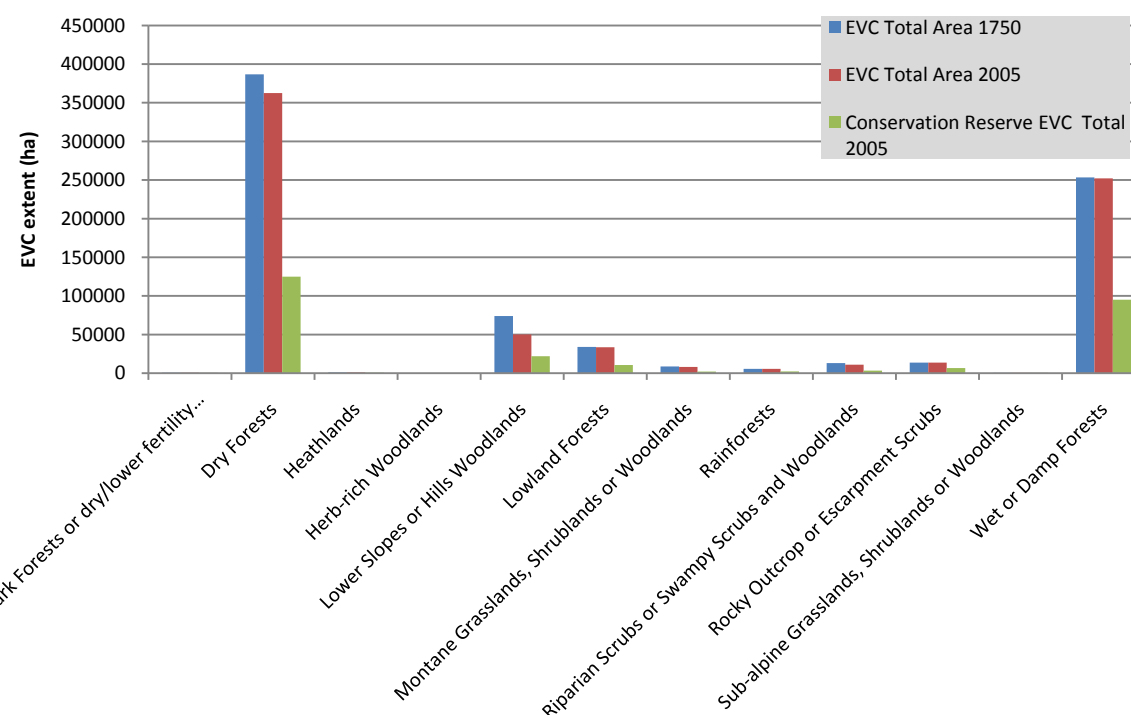
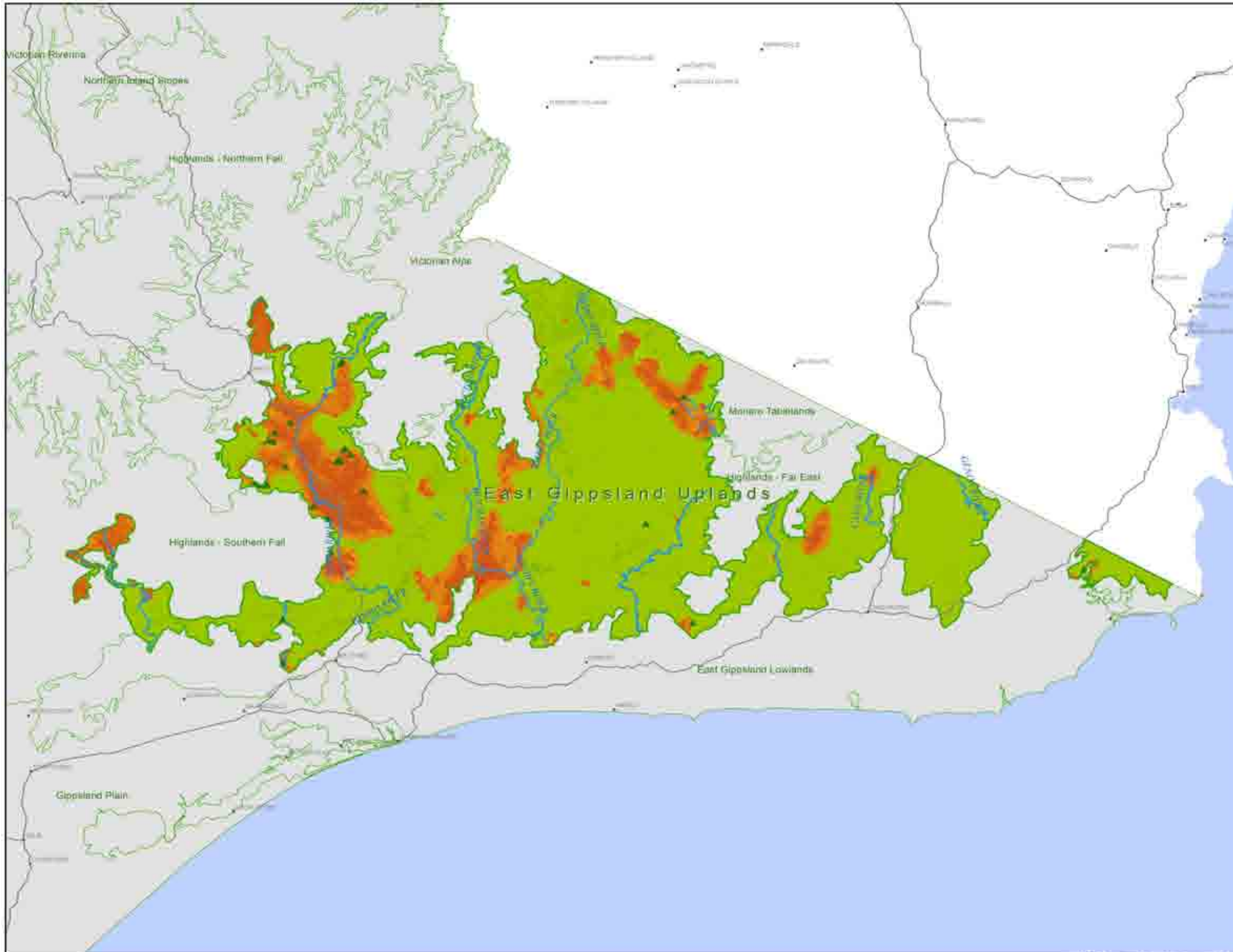


Figure 22-1 EVC Group Breakdown

Native vegetation in the Bioregion consists of 47 Ecological Vegetation Classes (EVCs) and five (5) EVC complexes and mosaics. Seven (7) EVCs within the region have a Bioregional Conservation Status (BCS) of Endangered, however, the Endangered EVCs cover only around 600 ha of the Bioregion. The Bioregion is almost entirely intact with 93% of the pre-1750 EVCs remaining. Of the remaining vegetation, 36% is protected on conservation land. Significantly, the native vegetation in East Gippsland is continuous between the alpine environments of the East Gippsland Uplands and the coastal environments of the East Gippsland Lowlands, the only region on mainland Australia where this occurs. The Bioregion supports the Commonwealth Environment Protection and Biodiversity Conservation (EPBC) Act listed Australian Grayling (*Prototroctes maraena*), listed as Vulnerable. The Bioregion is also known to support a large number of State Flora and Fauna Guarantee (FFG) Act listed species including Brush-tailed Rock-wallaby (*Petrogale penicillata*) Long-footed Potoroo (*Potorous longipes*), Spot-tailed Quoll (*Dasyurus maculatus*), Ground Parrot (*Pezoporus wallicus*), Glossy Black-Cockatoo (*Calyptorhynchus lathami lathami*), Masked Owl (*Tyto novaehollandiae*), Giant Burrowing Frog (*Heleioporus australiacus*) and Eastern She-oak Skink (*Cyclodomorphus michaeli*). Land use in the Bioregion is predominately conservation and timber harvesting. While the Bioregion is largely intact, careful management of fire regimes, weed species and introduced predators, especially foxes, is required to maintain the high biodiversity values of the area. The major river systems in the region are also susceptible to the effects of climate change, with the region becoming hotter and drier and runoff into the Mitchell, Tambo and Snowy Rivers all predicted to decrease by 50% by 2070.



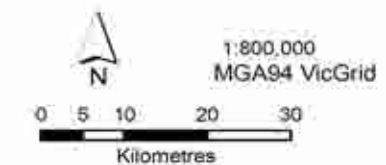
**East Gippsland Uplands
Bioregional Map 1a:
Landscape Priorities**

Legend

- Bioregion
 - Other Bioregion
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- Landscape Importance**
- High : 20
 - Low : 1



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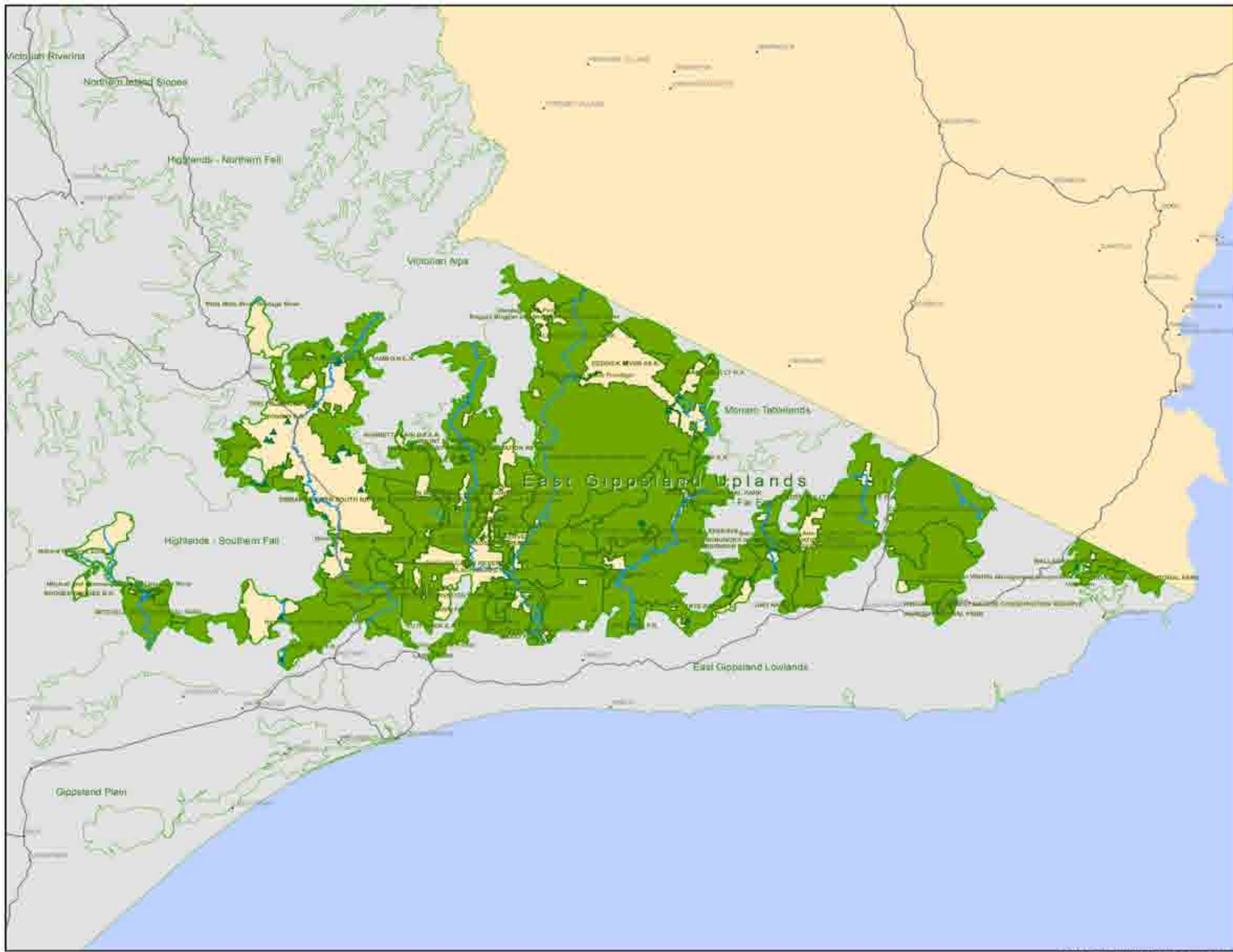
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Terrestrial Biodiversity Review



**East Gippsland Uplands
Bioregional Map 1b:
Protected Areas**

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes



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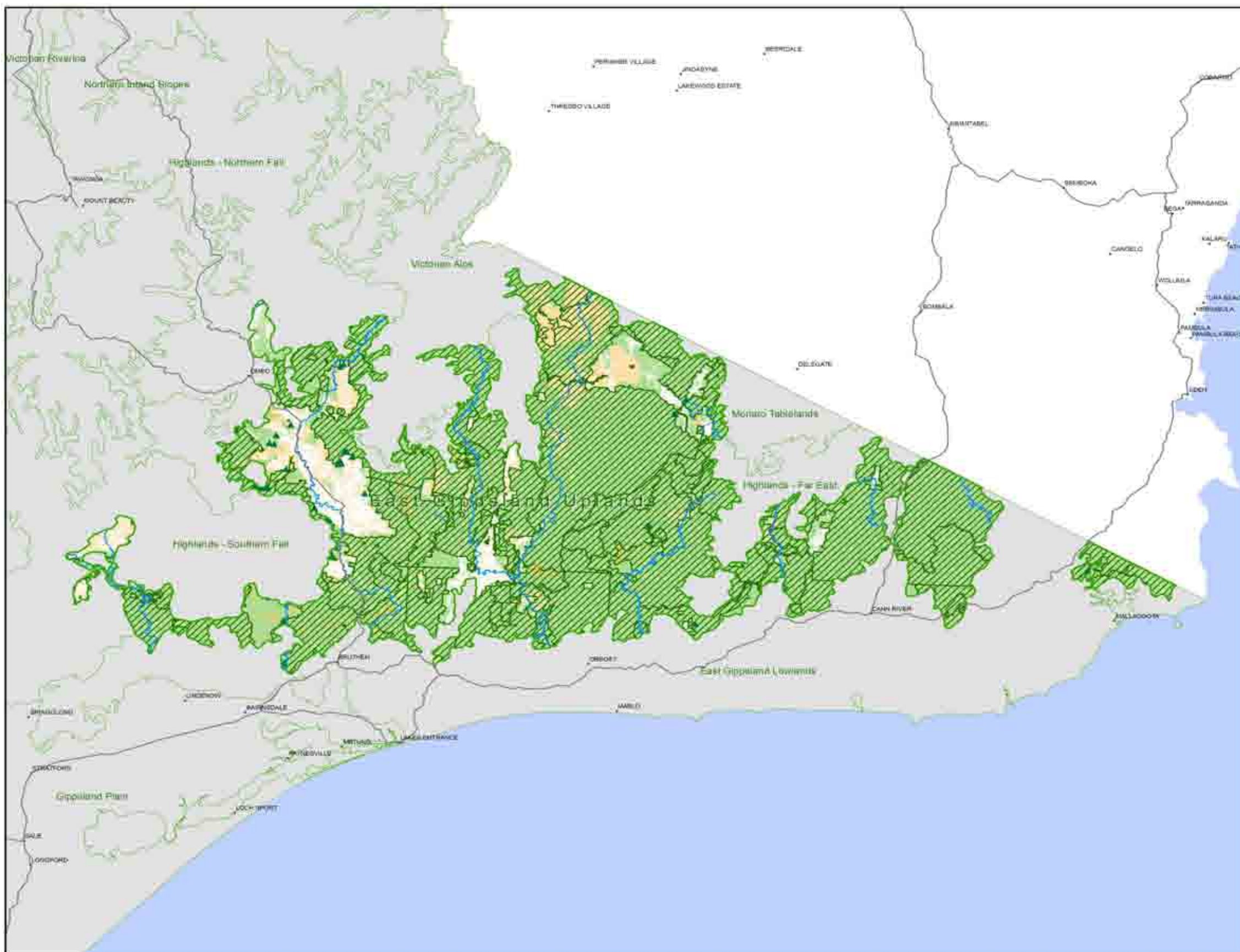
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**East Gippsland Uplands
Bioregional Map 2a:
Vegetation Conservation
Significance**

Legend

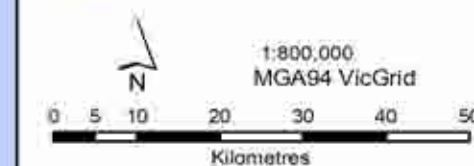
- Bioregion
- Other Bioregion
- Updated Parks
- Conservation Covered Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes

EVC Bioregional Conservation Status

- Endangered
- Vulnerable
- Depleted
- Rare
- Least Concern



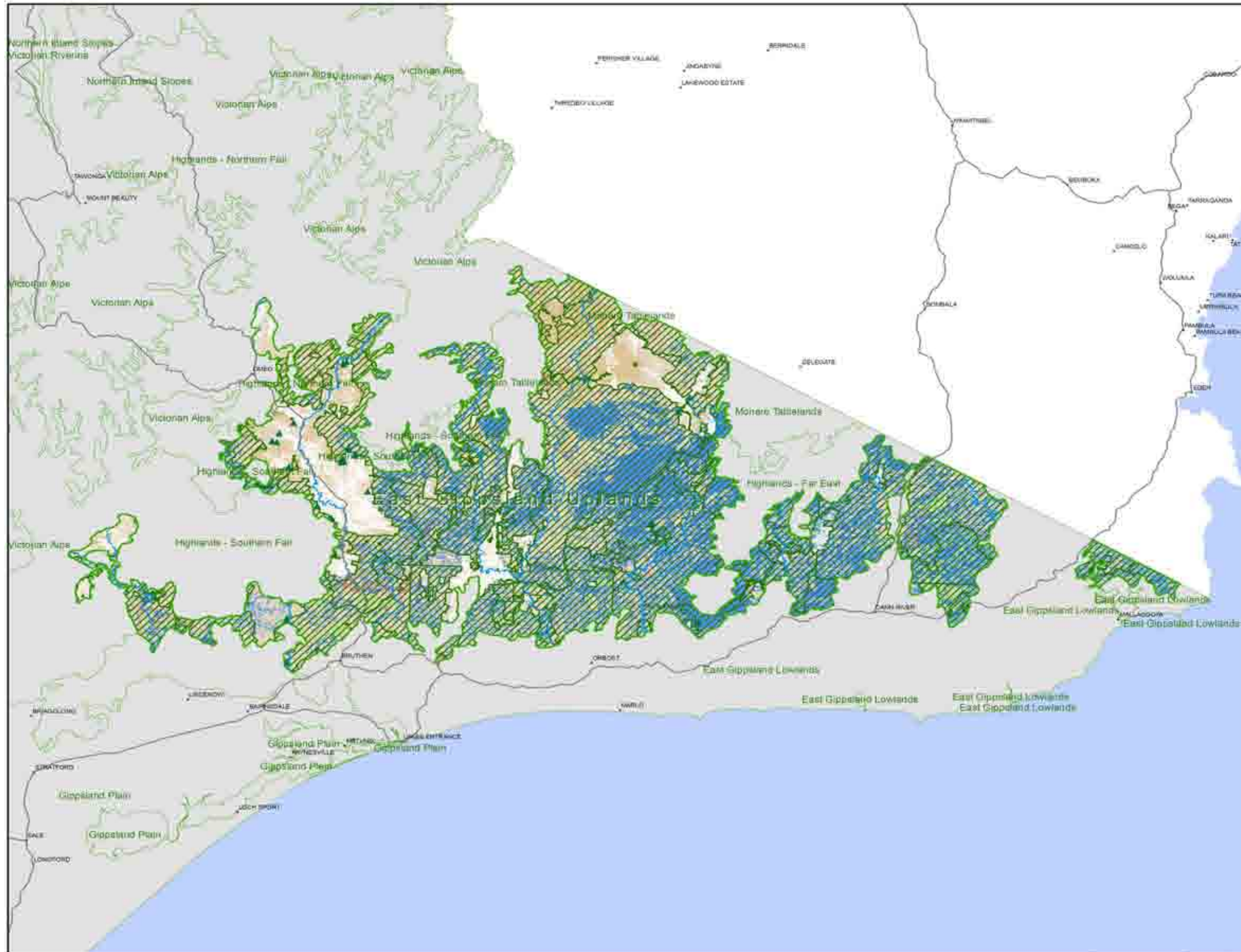
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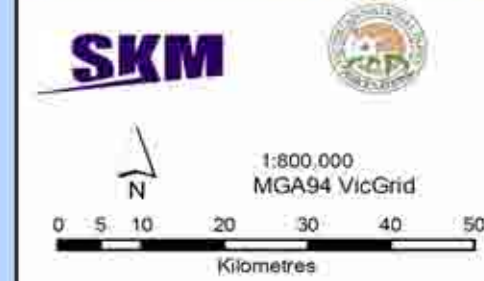
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**East Gippsland Uplands
Bioregional Map 2b:
EVC Groups**

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- EVC Group**
- Coastal Scrubs Grasslands and Woodlands
 - Heathy Woodlands
 - Lowland Forests
 - Box Ironbark Forests or dry/lower fertility Woodlands
 - Lower Slopes or Hills Woodlands
 - Dry Forests
 - Wet or Damp Forests
 - Riparian Scrubs or Swampy Scrubs and Woodlands
 - Rainforests
 - Montane Grasslands, Shrublands or Woodlands
 - Sub-alpine Grasslands, Shrublands or Woodlands
 - Plains Grasslands and Chenopod Shrublands
 - Plains Woodlands or Forests
 - Riverine Grassy Woodlands or Forests
 - Herb-rich Woodlands
 - Heathlands
 - Mallee
 - Wetlands
 - Salt-tolerant and/or succulent Shrublands
 - Rocky Outcrop or Escarpment Scrubs
 - No native vegetation recorded



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Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
EGU	3	Damp Sands Herb-rich Woodland	15	Herb-rich Woodlands	Vulnerable	19	0	0	0	14	0	0	0	2	16	87.3	0.0	0.0
EGU	6	Sand Heathland	16	Heathlands	not applicable	98	7	1	8	40	0	7	0	50	98	99.8	8.0	8.0
EGU	7	Clay Heathland	16	Heathlands	Vulnerable	998	618	216	834	0	0	618	0	73	907	90.9	91.9	83.5
EGU	8	Wet Heathland	16	Heathlands	Least Concern	24	0	24	24	0	0	0	0	0	24	100.0	100.0	100.0
EGU	14	Banksia Woodland	3	Lowland Forests	Least Concern	473	0	462	462	0	0	0	0	11	473	100.0	97.6	97.7
EGU	15	Limestone Box Forest	3	Lowland Forests	Vulnerable	47	9	37	47	0	0	9	0	0	47	100.0	99.6	99.6
EGU	16	Lowland Forest	3	Lowland Forests	Least Concern	30665	10162	18859	29021	2	0	10162	0	1350	30373	99.0	95.5	94.6
EGU	17	Riparian Scrub/Swampy Riparian Woodland Complex	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	331	217	113	330	0	0	217	0	2	331	100.0	99.5	99.5
EGU	18	Riparian Forest	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	10310	2378	4161	6540	341	0	2378	0	2046	8927	86.6	73.3	63.4
EGU	19	Riparian Shrubland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Rare	1351	647	318	965	214	0	647	0	105	1284	95.0	75.1	71.4
EGU	20	Heathy Dry Forest	6	Dry Forests	Least Concern	18413	1920	12609	14529	802	0	1920	0	2783	18114	98.4	80.2	78.9
EGU	21	Shrubby Dry Forest	6	Dry Forests	Least Concern	266517	110708	122344	233053	1960	0	110708	0	25541	260554	97.8	89.4	87.4
EGU	22	Grassy Dry Forest	6	Dry Forests	Least Concern	46745	8755	15213	23968	613	0	8755	0	16064	40645	86.9	59.0	51.3
EGU	23	Herb-rich Foothill Forest	6	Dry Forests	Least Concern	15112	362	7867	8230	670	0	362	0	4433	13333	88.2	61.7	54.5
EGU	24	Foothill Box Ironbark Forest	4	Box Ironbark Forests or dry/lower fertility Woodlands	Vulnerable	603	528	7	535	0	0	528	0	67	603	100.0	88.8	88.8
EGU	27	Blackthorn Scrub	20	Rocky Outcrop or Escarpment Scrubs	Rare	8743	3793	4706	8500	31	0	3793	0	206	8737	99.9	97.3	97.2
EGU	28	Rocky Outcrop Shrubland	20	Rocky Outcrop or Escarpment Scrubs	Least Concern	1401	1293	105	1397	0	0	1293	0	3	1401	100.0	99.8	99.8
EGU	29	Damp Forest	7	Wet or Damp Forests	Least Concern	204161	72625	111336	183961	621	0	72625	0	18301	202883	99.4	90.7	90.1
EGU	30	Wet Forest	7	Wet or Damp Forests	Least Concern	31946	16137	12861	28998	65	0	16137	0	2871	31934	100.0	90.8	90.8
EGU	31	Cool Temperate Rainforest	9	Rainforests	Rare	277	138	129	267	0	0	138	0	10	277	100.0	96.4	96.4
EGU	32	Warm Temperate Rainforest	9	Rainforests	Rare	5129	1964	2657	4621	12	0	1964	0	495	5128	100.0	90.1	90.1
EGU	33	Cool Temperate Rainforest/Warm Temperate Rainforest Overlap	9	Rainforests	Rare	31	17	14	31	0	0	17	0	0	31	100.0	100.0	100.0
EGU	34	Dry Rainforest	9	Rainforests	Endangered	16	10	4	14	0	0	10	0	2	16	100.0	87.0	87.0
EGU	35	Tableland Damp Forest	7	Wet or Damp Forests	Least Concern	134	0	134	134	0	0	0	0	0	134	100.1	100.0	100.1
EGU	36	Montane Dry Woodland	10	Montane Grasslands, Shrublands or Woodlands	Least Concern	3801	1360	1437	2797	309	0	1360	0	525	3631	95.5	77.0	73.6
EGU	37	Montane Grassy Woodland	10	Montane Grasslands, Shrublands or Woodlands	Vulnerable	1703	235	413	648	27	0	235	0	610	1285	75.5	50.4	38.1
EGU	38	Montane Damp Forest	7	Wet or Damp Forests	Least Concern	871	332	485	817	19	0	332	0	34	870	100.0	93.9	93.8
EGU	39	Montane Wet Forest	7	Wet or Damp Forests	Least Concern	5021	4820	151	4971	18	0	4820	0	0	4990	99.4	99.6	99.0
EGU	40	Montane Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	726	7	29	36	51	0	7	0	151	237	32.7	15.0	4.9
EGU	41	Montane Riparian Thicket	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	12	0	12	12	0	0	0	0	0	12	100.0	100.0	100.0
EGU	42	Sub-alpine Shrubland	11	Sub-alpine Grasslands, Shrublands or Woodlands	Rare	6	1	0	1	0	0	1	0	0	1	11.5	100.0	11.5
EGU	43	Sub-alpine Woodland	11	Sub-alpine Grasslands, Shrublands or Woodlands	Least Concern	366	368	6	374	0	0	368	0	1	375	102.6	99.7	102.2
EGU	44	Sub-alpine Treeless Vegetation	11	Sub-alpine Grasslands, Shrublands or Woodlands	Rare	0	32	0	32	0	0	32	0	0	32	0.0	100.0	0.0
EGU	45	Shrubby Foothill Forest	6	Dry Forests	Least Concern	5957	608	5218	5826	0	0	608	0	124	5950	99.9	97.9	97.8
EGU	47	Valley Grassy Forest	6	Dry Forests	Depleted	24561	2297	5348	7645	223	0	2297	0	8585	16452	67.0	46.5	31.1
EGU	73	Rocky Outcrop Shrubland/Rocky Outcrop Hermland Mosaic	20	Rocky Outcrop or Escarpment Scrubs	Least Concern	214	176	34	211	0	0	176	0	3	214	100.0	98.7	98.7
EGU	82	Riverine Escarpment Scrub	20	Rocky Outcrop or Escarpment Scrubs	Least Concern	3272	1399	1508	2907	56	0	1399	0	270	3233	98.8	89.9	88.8
EGU	83	Swampy Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	97	28	7	35	0	0	28	0	44	80	82.4	44.5	36.7
EGU	127	Valley Heathy Forest	6	Dry Forests	Vulnerable	838	0	838	838	0	0	0	0	0	838	100.0	100.0	100.0
EGU	133	Limestone Pomaderris Shrubland	20	Rocky Outcrop or Escarpment Scrubs	Endangered	57	43	13	56	0	0	43	0	1	56	99.4	98.4	97.8
EGU	135	Gallery Rainforest	9	Rainforests	Endangered	7	7	0	7	0	0	7	0	0	7	100.0	100.0	100.0

Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
EGU	169	Dry Valley Forest	6	Dry Forests	Vulnerable	8313	135	4209	4343	783	0	135	0	1259	6384	76.8	68.0	52.2
EGU	175	Grassy Woodland	5	Lower Slopes or Hills Woodlands	Depleted	73862	21875	1170	23044	811	0	21875	0	26262	50117	67.9	46.0	31.2
EGU	177	Valley Slopes Dry Forest	6	Dry Forests	Rare	260	45	138	183	36	0	45	0	32	250	96.4	73.1	70.5
EGU	201	Shrubby Wet Forest	7	Wet or Damp Forests	Least Concern	1	0	1	1	0	0	0	0	0	1	99.9	100.0	99.9
EGU	206	Sub-alpine Grassland	11	Sub-alpine Grasslands, Shrublands or Woodlands	Rare	12	0	8	8	0	0	0	0	0	8	67.6	100.0	67.6
EGU	316	Shrubby Damp Forest	7	Wet or Damp Forests	Least Concern	11263	1159	9730	10889	0	0	1159	0	330	11219	99.6	97.1	96.7
EGU	318	Montane Swamp	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	189	0	0	0	27	0	0	0	35	62	32.8	0.0	0.0
EGU	319	Montane Herb-rich Woodland	10	Montane Grasslands, Shrublands or Woodlands	Least Concern	3123	556	2459	3014	0	0	556	0	104	3119	99.9	96.7	96.5
EGU	322	Dry Rainforest/Warm Temperate Rainforest/Gallery Rainforest/Riparian Shrubland/Riverine Escarpment Scrub/Blackthorn Scrub Complex	9	Rainforests	Endangered	125	115	9	124	0	0	115	0	0	124	99.1	100.0	99.1
EGU	342	Rocky Outcrop Shrubland/Rocky Outcrop Herbland/Shrubby Foothill Forest Complex	20	Rocky Outcrop or Escarpment Scrubs	Rare	3	0	1	1	0	0	0	0	2	3	100.0	31.1	31.1
EGU	877	Lowland Herb-rich Forest	3	Lowland Forests	Least Concern	2836	368	2088	2456	16	0	368	0	269	2740	96.6	89.6	86.6
Total						791,040	268,255	349,489	617,744	7,760	0	268,255	0	113,056	738,561	93.4%	36.3%	33.9%



23. Wilson's Promontory

Bioregion size: 40 452 ha
 Native vegetation cover: 40 105 ha (100%)
 Conservation reserve cover (excludes State Forests): 40 091 ha (100%)

Almost 100% of the native vegetation in Wilson's Promontory has been retained and protected. No further conservation actions are required in the Bioregion.

The Wilsons Promontory Bioregion (WPro) covers approximately 40 452 ha, and is a peninsula located on the southern coast of Victoria. Settlement is restricted to a small area around Tidal River. The area generally supports Wet Forest, Granitic Hills Woodland, Lowland Forest, Shrubby Foothill Forest and Damp, with swampy regions dominated by Wet Heathland, Sand Heathland, Heathy Woodland and Riparian Scrub. Wilsons Promontory is Sub-region FUR1 of the Flinders Interim Biogeographic Regionalisation of Australia (IBRA) Bioregion. The Bioregion falls within the West Gippsland Catchment Management Authority (CMA) area. Under the proposed alignment of the new Natural Resource & Catchment Authorities (NRCA) to be implemented in 2011, the West Gippsland CMA will become part of the Gippsland NRCA. The area lies entirely within Wilsons Promontory National Park. The Corner Inlet Ramsar Site is located on the northern coast of the Bioregion.

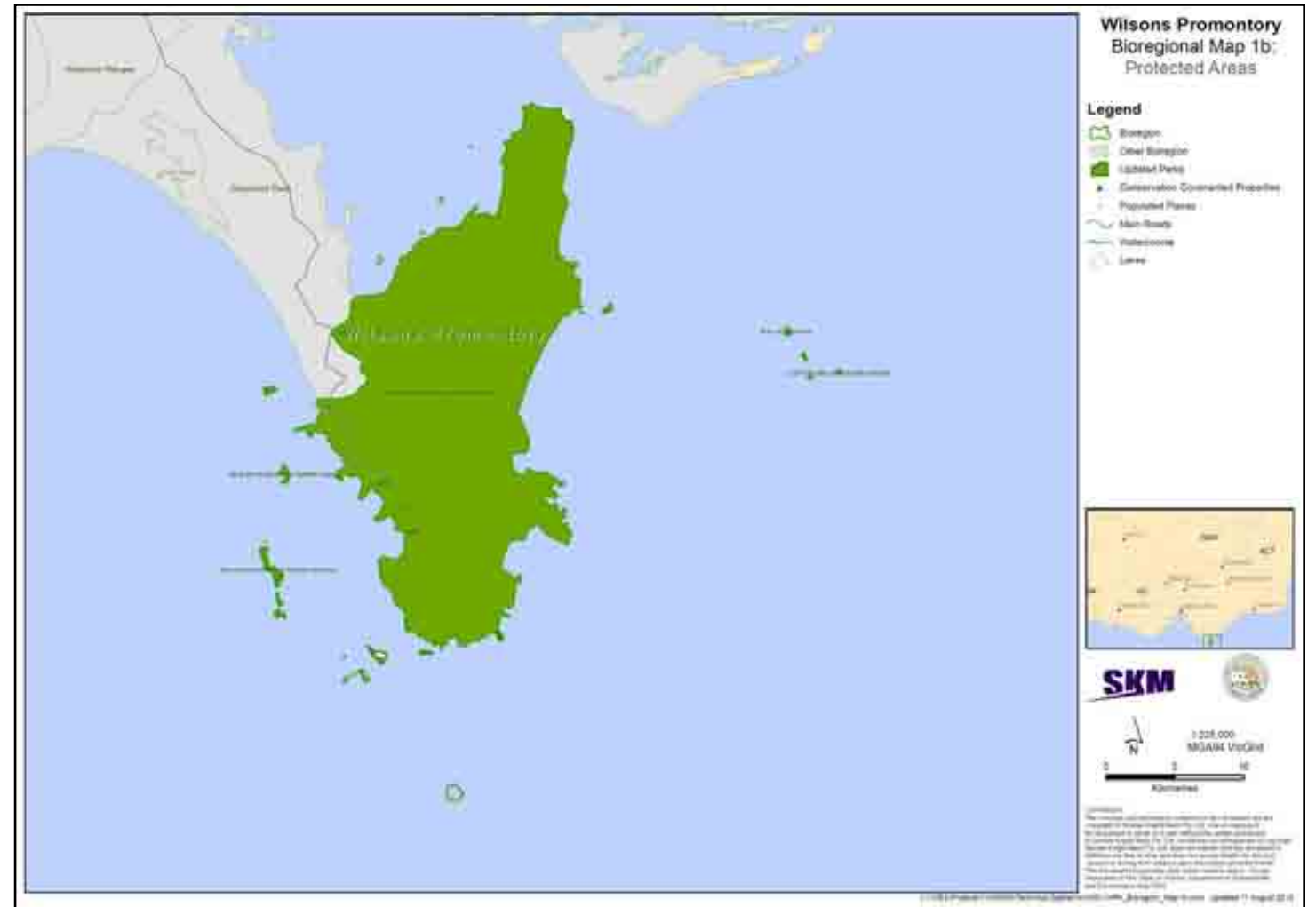


Figure 23-2 Protected Areas – Wilson's Promontory

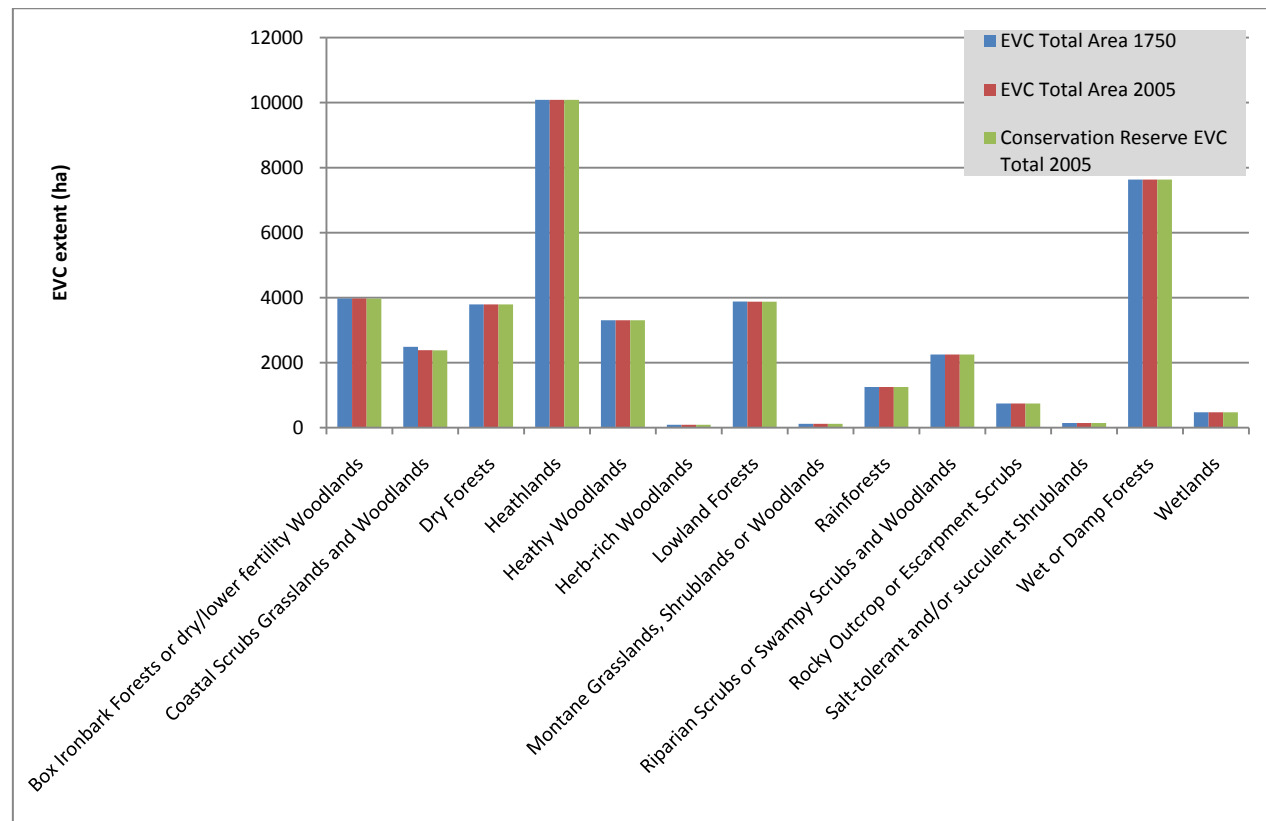
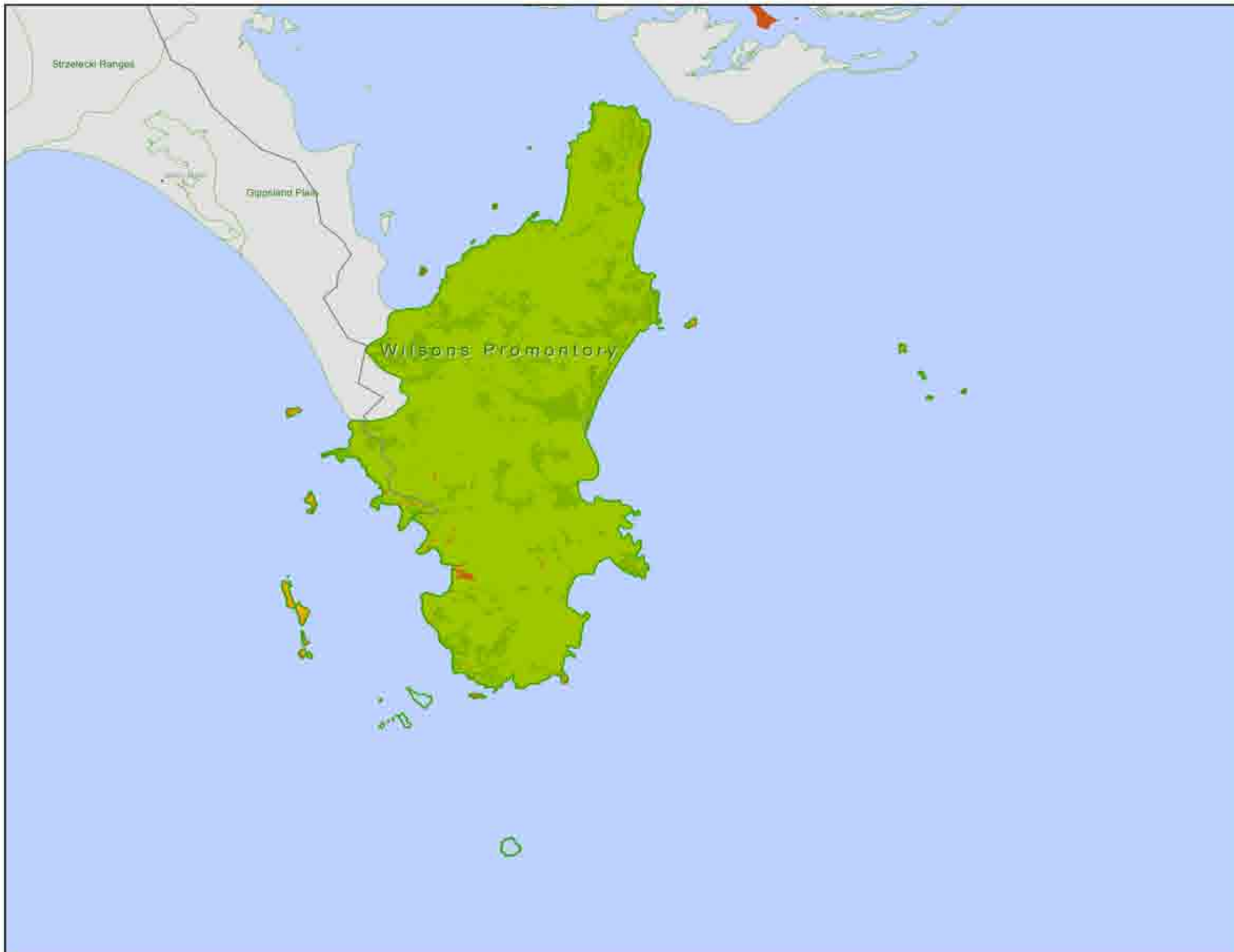


Figure 23-1 EVC Group Breakdown

The Bioregion supports 34 Ecological Vegetation Classes (EVCs), of which two (2) have a Bioregional Conservation Status (BCS) of Endangered. Since the area is entirely protected, it has retained almost 100% of the pre-1750 EVC. Additionally, a number of nationally significant species are known to be within the area including Commonwealth Environment Protection and Biodiversity Conservation (EPBC) Act listed Orange-bellied Parrot (*Neophema chrysogaster*), listed as Critically Endangered, Leatherback Turtle (*Dermochelys coriacea*), listed as Endangered, and Australian Grayling (*Prototroctes maraena*), listed as Vulnerable. Twenty-four (24) migratory species and 29 listed marine species are known to occur in the area. Wilson's Promontory also provides habitat for State Flora and Fauna Guarantee (FFG) Act listed species, including New Holland Mouse (*Pseudomys novaehollandiae*), White-footed Dunnart (*Sminthopsis leucopus*), Southern Brown Bandicoot (*Isodon obesulus*) and Long-nosed Potoroo (*Potorous tridactylus tridactylus*). Land use at Wilsons Promontory is entirely conservation and recreation. Formal grazing has previously occurred in the area but was ceased in 1992. While the area is almost entirely intact, ongoing threats include changed fire regimes, feral predator impacts, weeds and uncontrolled visitor impacts. Climate is also likely to place pressure on the coastal environments, with rising sea levels and rising water temperature and acidity.

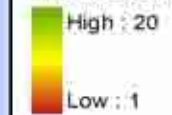


**Wilsons Promontory
Bioregional Map 1a:
Landscape Priorities**

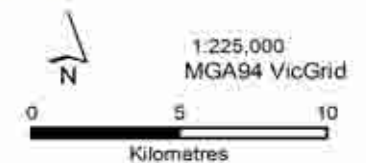
Legend

- Bioregion
- Other Bioregion
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes

Landscape Importance



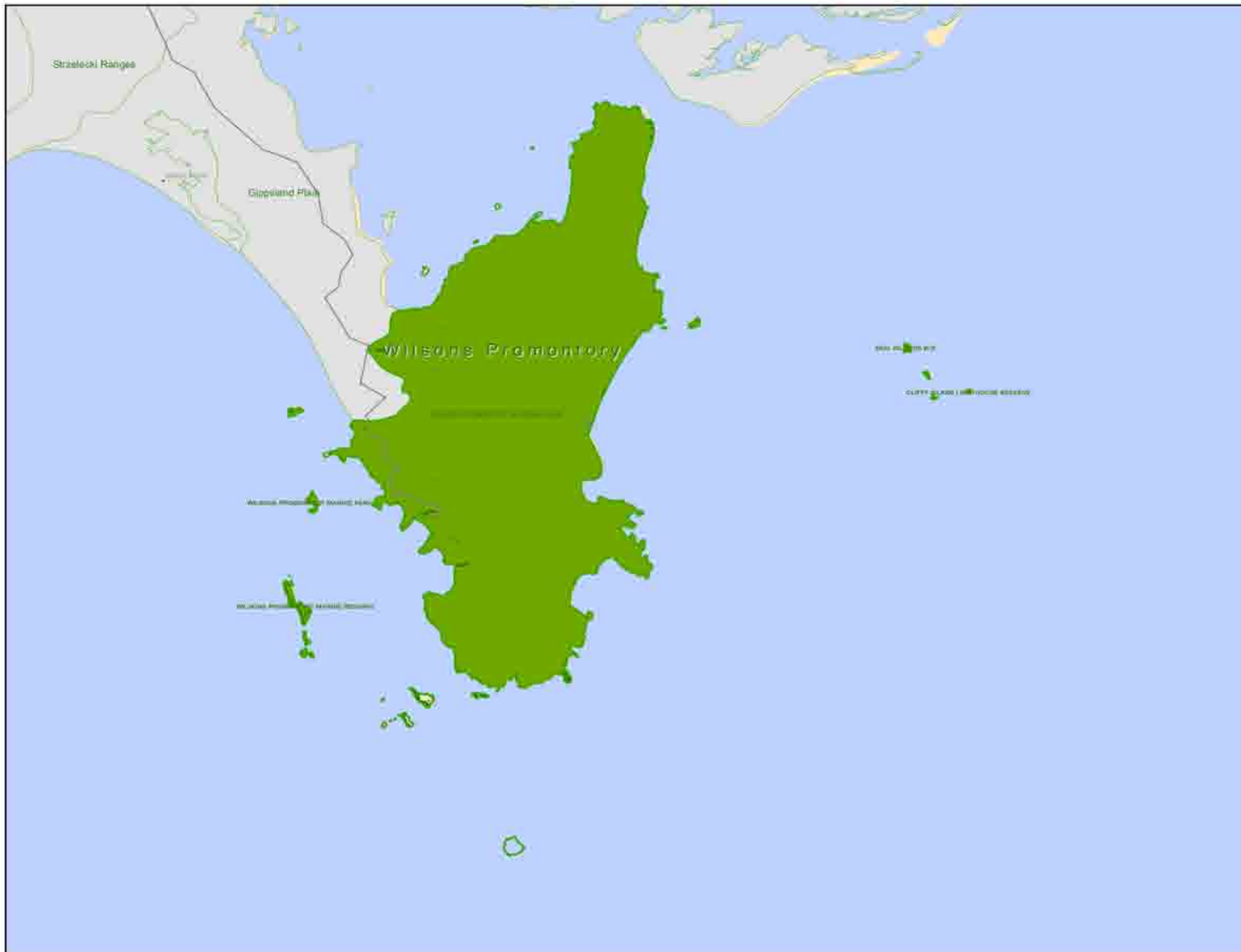
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**Wilsons Promontory
Bioregional Map 1b:
Protected Areas**

Legend

- Bioregion
- Other Bioregion
- Updated Parks
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes

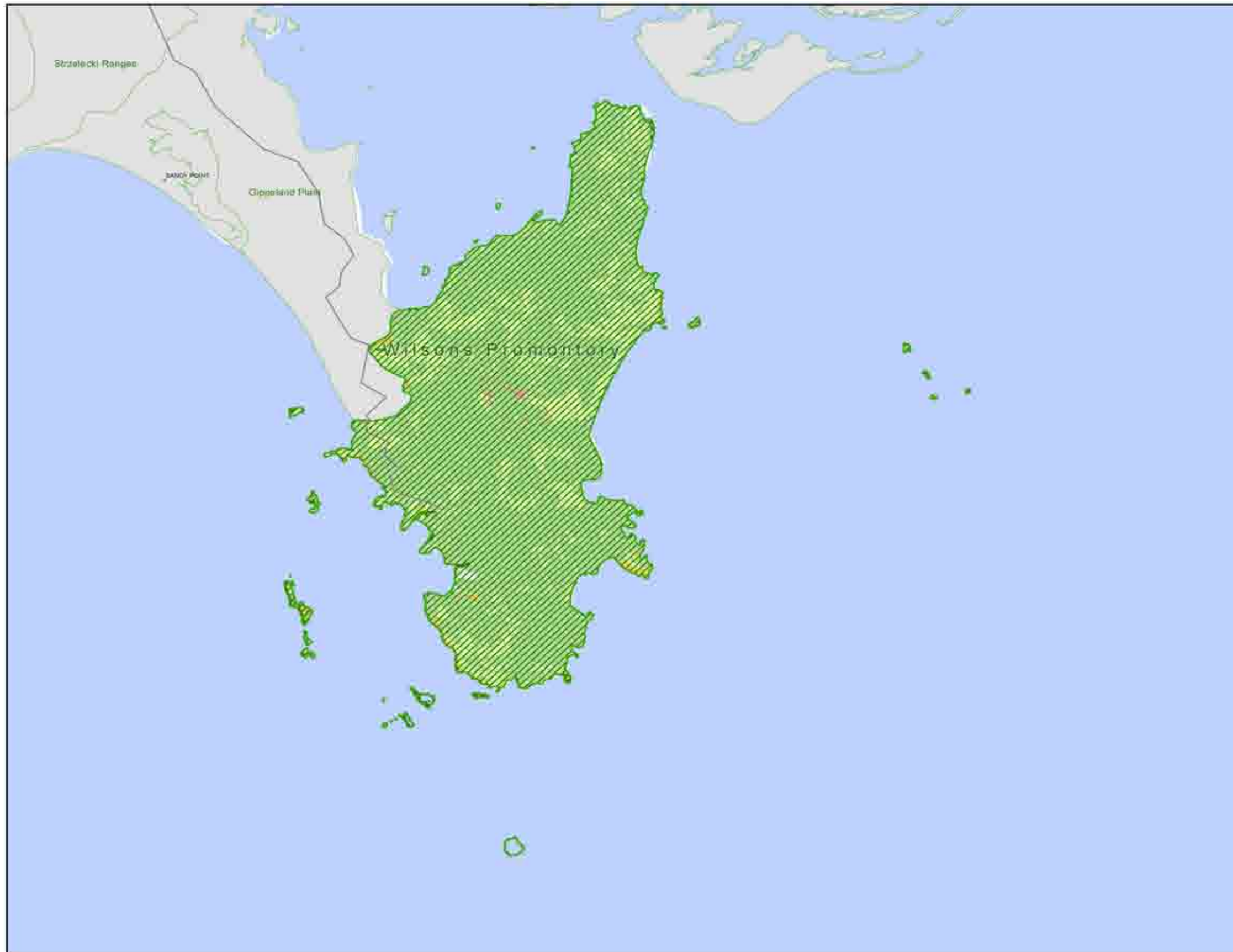


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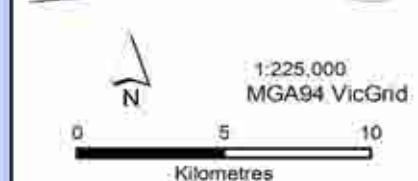
**Wilsons Promontory
Bioregional Map 2a:
Vegetation Conservation
Significance**

Legend

- Bioregion
- Other Bioregion
- Updated Parks
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes

EVC Bioregional Conservation Status

- Endangered
- Vulnerable
- Depleted
- Rare
- Least Concern



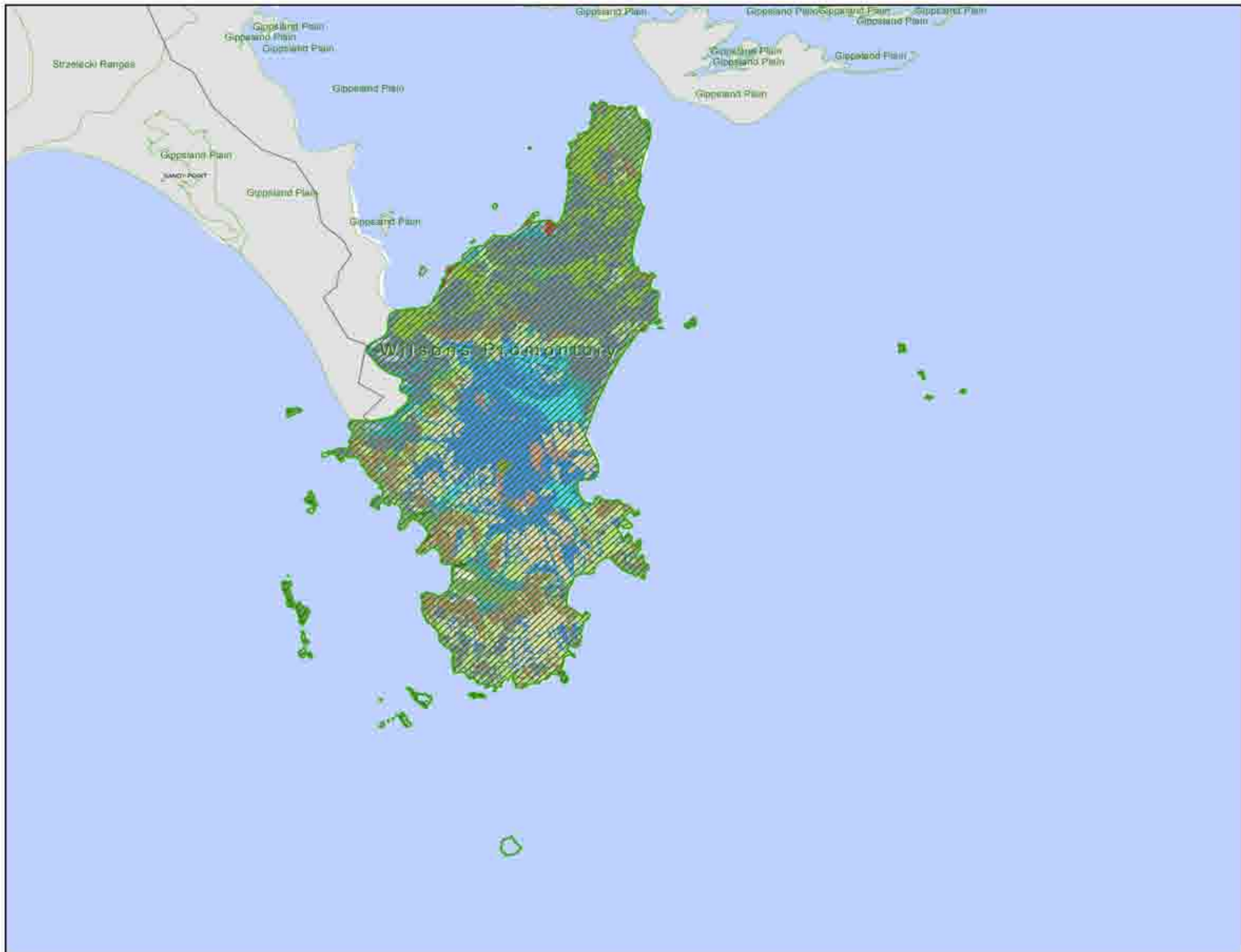
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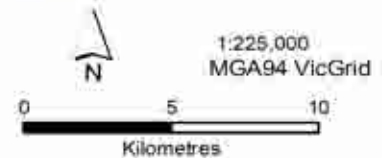


Terrestrial Biodiversity Review



Wilson's Promontory Bioregional Map 2b: EVC Groups

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- EVC Group**
- Coastal Scrubs Grasslands and Woodlands
 - Healthy Woodlands
 - Lowland Forests
 - Box Ironbark Forests or dry/low fertility Woodlands
 - Lower Slopes or Hills Woodlands
 - Dry Forests
 - Wet or Damp Forests
 - Riparian Scrubs or Swampy Scrubs and Woodlands
 - Rainforests
 - Montane Grasslands, Shrublands or Woodlands
 - Sub-alpine Grasslands, Shrublands or Woodlands
 - Plains Grasslands and Chenopod Shrublands
 - Plains Woodlands or Forests
 - Riveline Grassy Woodlands or Forests
 - Herb-rich Woodlands
 - Heathlands
 - Mallee
 - Wetlands
 - Salt-tolerant and/or succulent Shrublands
 - Rocky Outcrop or Escarpment Scrubs
 - No native vegetation recorded



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Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Wilsons Prom	1	Coastal Dune Scrub/Coastal Dune Grassland Mosaic	1	Coastal Scrubs Grasslands and Woodlands	Least Concern	1483	1478	0	1478	0	0	1478	0	2	1479	99.8	99.9	99.6
Wilsons Prom	2	Coast Banksia Woodland	1	Coastal Scrubs Grasslands and Woodlands	Rare	289	288	0	288	0	0	288	0	0	288	99.8	100.0	99.8
Wilsons Prom	3	Damp Sands Herb-rich Woodland	15	Herb-rich Woodlands	Vulnerable	87	87	0	87	0	0	87	0	0	87	100.1	100.0	100.1
Wilsons Prom	5	Coastal Sand Heathland	16	Heathlands	Rare	23	21	0	21	0	0	21	0	0	21	94.2	100.0	94.2
Wilsons Prom	6	Sand Heathland	16	Heathlands	Rare	771	770	0	770	0	0	770	0	0	770	100.0	100.0	100.0
Wilsons Prom	8	Wet Heathland	16	Heathlands	Least Concern	5962	5962	0	5962	0	0	5962	0	0	5962	100.0	100.0	100.0
Wilsons Prom	9	Coastal Saltmarsh	19	Salt-tolerant and/or succulent Shrublands	Least Concern	129	126	0	126	0	0	126	0	2	129	99.9	98.3	98.2
Wilsons Prom	10	Estuarine Wetland	18	Wetlands	Rare	221	220	0	220	0	0	220	0	0	220	100.0	99.9	99.8
Wilsons Prom	11	Coastal Lagoon Wetland	18	Wetlands	Rare	59	59	0	59	0	0	59	0	0	59	99.8	100.0	99.8
Wilsons Prom	12	Wet Swale Herbland	18	Wetlands	Rare	75	75	0	75	0	0	75	0	0	75	100.0	100.0	100.0
Wilsons Prom	16	Lowland Forest	3	Lowland Forests	Least Concern	3878	3876	0	3876	0	0	3876	0	0	3877	100.0	100.0	100.0
Wilsons Prom	18	Riparian Forest	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	45	45	0	45	0	0	45	0	0	45	100.0	100.0	100.0
Wilsons Prom	29	Damp Forest	7	Wet or Damp Forests	Least Concern	3679	3679	0	3679	0	0	3679	0	0	3679	100.0	100.0	100.0
Wilsons Prom	30	Wet Forest	7	Wet or Damp Forests	Least Concern	3954	3954	0	3954	0	0	3954	0	0	3954	100.0	100.0	100.0
Wilsons Prom	31	Cool Temperate Rainforest	9	Rainforests	Endangered	142	142	0	142	0	0	142	0	0	142	100.0	100.0	100.0
Wilsons Prom	32	Warm Temperate Rainforest	9	Rainforests	Rare	1110	1110	0	1110	0	0	1110	0	0	1110	100.0	100.0	100.0
Wilsons Prom	45	Shrubby Foothill Forest	6	Dry Forests	Least Concern	3789	3789	0	3789	0	0	3789	0	0	3789	100.0	100.0	100.0
Wilsons Prom	48	Heathy Woodland	2	Heathy Woodlands	Least Concern	3302	3302	0	3302	0	0	3302	0	0	3302	100.0	100.0	100.0
Wilsons Prom	53	Swamp Scrub	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	28	29	0	29	0	0	29	0	0	29	100.3	100.0	100.3
Wilsons Prom	72	Granitic Hills Woodland	4	Box Ironbark Forests or dry/lower fertility Woodlands	Least Concern	3976	3971	0	3971	0	0	3971	0	3	3974	100.0	99.9	99.9
Wilsons Prom	73	Rocky Outcrop Shrubland/Rocky Outcrop Herbland Mosaic	20	Rocky Outcrop or Escarpment Scrubs	Least Concern	226	225	0	225	0	0	225	0	0	225	99.9	100.0	99.9
Wilsons Prom	74	Wetland Formation	18	Wetlands	Rare	48	47	0	47	0	0	47	0	0	47	98.6	100.0	98.6
Wilsons Prom	136	Sedge Wetland	18	Wetlands	Rare	69	69	0	69	0	0	69	0	0	69	100.0	100.0	100.0
Wilsons Prom	140	Mangrove Shrubland	19	Salt-tolerant and/or succulent Shrublands	Rare	15	14	0	14	0	0	14	0	1	15	99.7	96.1	95.9
Wilsons Prom	154	Bird Colony Shrubland	1	Coastal Scrubs Grasslands and Woodlands	Rare	49	25	0	25	0	0	25	0	0	25	51.3	99.2	50.9
Wilsons Prom	161	Coastal Headland Scrub	1	Coastal Scrubs Grasslands and Woodlands	Vulnerable	404	392	0	392	0	0	392	0	0	393	97.0	99.9	97.0
Wilsons Prom	163	Coastal Tussock Grassland	1	Coastal Scrubs Grasslands and Woodlands	Rare	198	141	0	141	0	0	141	0	1	141	71.3	99.6	71.0
Wilsons Prom	191	Riparian Scrub	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	2176	2176	0	2176	0	0	2176	0	0	2176	100.0	100.0	100.0
Wilsons Prom	192	Montane Rocky Shrubland	10	Montane Grasslands, Shrublands or Woodlands	Rare	115	115	0	115	0	0	115	0	0	115	100.0	100.0	100.0
Wilsons Prom	307	Sand Heathland/Wet Heathland Mosaic	16	Heathlands	Rare	3332	3331	0	3331	0	0	3331	0	0	3331	100.0	100.0	100.0
Wilsons Prom	310	Wet Rocky Outcrop Scrub	20	Rocky Outcrop or Escarpment Scrubs	Rare	517	517	0	517	0	0	517	0	0	517	100.0	100.0	100.0
Wilsons Prom	858	Coastal Alkaline Scrub	1	Coastal Scrubs Grasslands and Woodlands	Depleted	14	14	0	14	0	0	14	0	0	14	99.9	100.0	99.9
Wilsons Prom	875	Blocked Coastal Stream Swamp	18	Wetlands	Rare	0	0	0	0	0	0	0	0	0	0	98.8	100.0	98.8
Wilsons Prom	876	Spray-zone Coastal Shrubland	1	Coastal Scrubs Grasslands and Woodlands	Rare	47	42	0	42	0	0	42	0	0	42	89.1	99.6	88.7
Total						40,214	40,095	0	40,095	0	0	40,095	0	10	40,105	99.7%	100.0%	99.7%

24. Highlands – Southern Fall

Bioregion size: 1 177 046 ha
 Native vegetation cover: 1 035 727 ha (87%)
 Conservation reserve cover (excludes State Forests): 240 851 ha (23%)

Large areas of native vegetation in the Bioregion are located on non-conservation public land, particularly EVCs from the Dry Forests, Wet or Damp Forests and Lowland Forests EVC groups. Small areas of Endangered EVCs are present and should be given conservation priority. The Bioregion would benefit from increased conservation protection for available areas, as well as increasing connectivity between smaller remnant patches and core conservation areas by increasing the Riparian vegetation under protection, of which there are small areas available.

The Highlands – Southern Fall Bioregion (HSF) covers approximately 1 177 046 ha, from eastern Melbourne stretching north-east towards Omeo, encompassing the southern-most portion of the Great Dividing Range. Vegetation on the upper slopes is dominated by Shrubby Dry Forest and Damp Forest, with Wet Forests dominant in the valleys including Cool Temperate Rainforest in the most protected gullies. Montane Dry Woodland, Montane Damp Forest and Montane Wet Forest occur in the higher altitudes. The Highlands – Southern Fall is Sub-region SEH1 of the South Eastern Highlands Interim Biogeographic Regionalisation of Australia (IBRA) Bioregion. The Bioregion falls within the jurisdiction of the Goulburn Broken Catchment Management Authority (CMA) and the North East CMA. Under the proposed alignment of new Natural Resource & Catchment Authorities (NCRA) to be implemented in 2011, both CMAs will become part of the Northern Rivers NCRA.

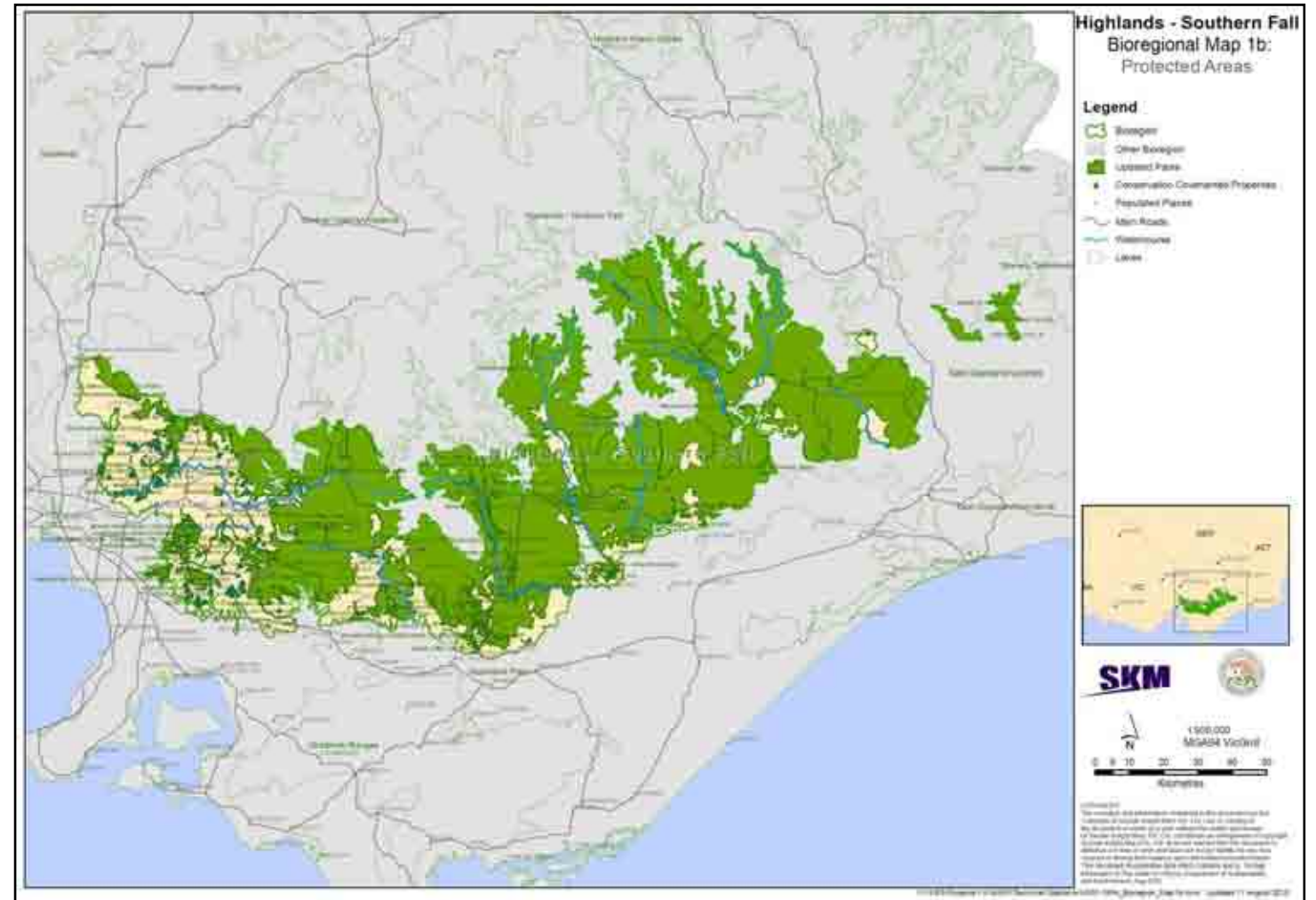


Figure 24-2 Protected Areas – Highlands – Southern Fall

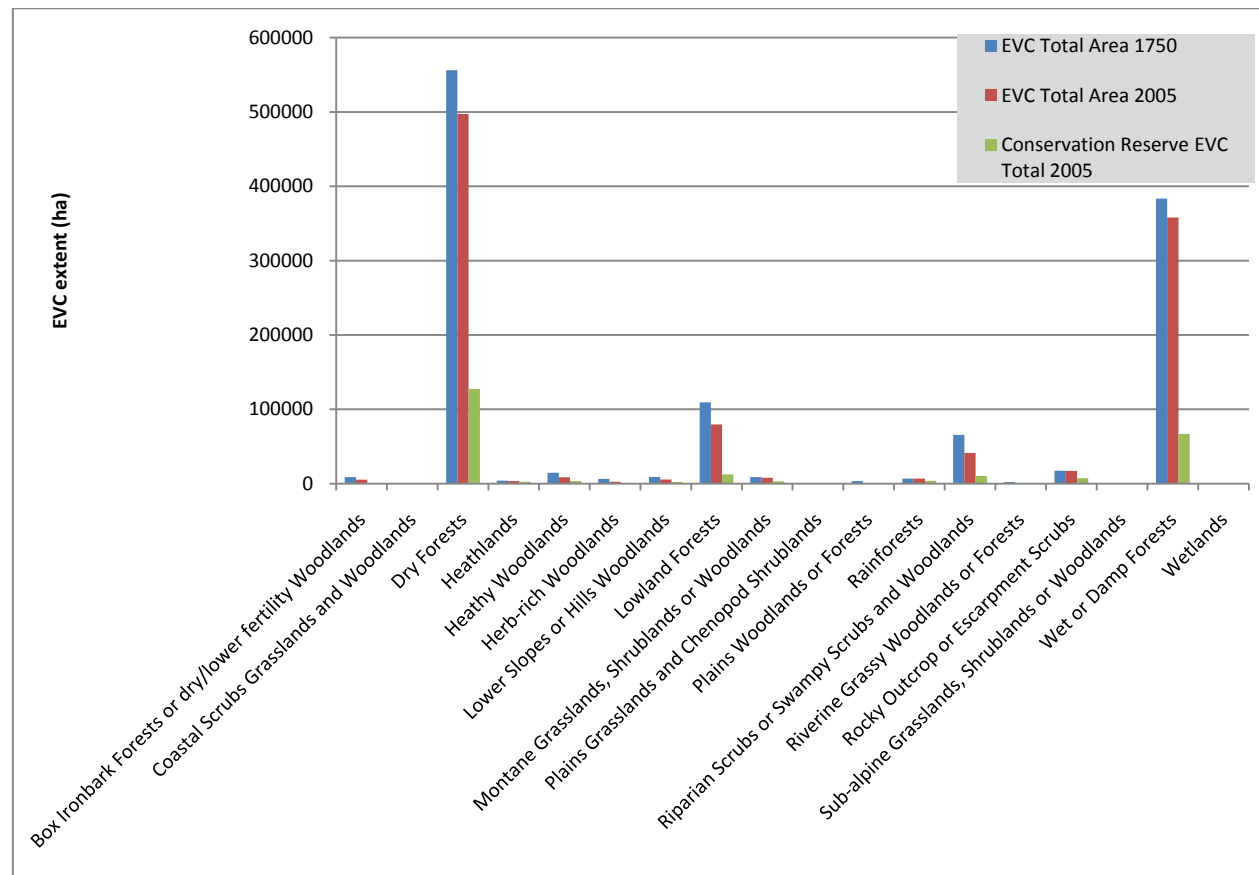
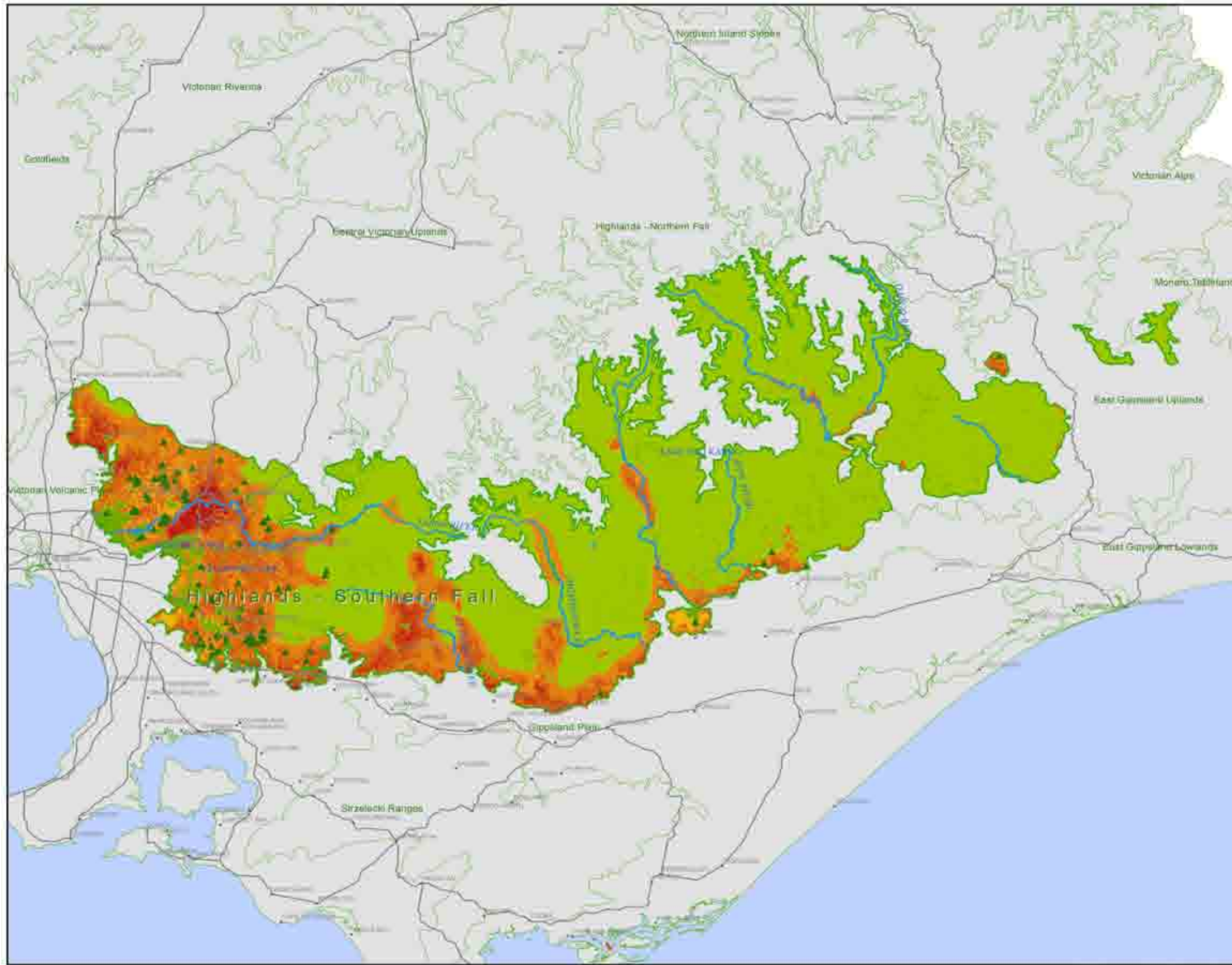


Figure 24-1 EVC Group Breakdown

The region supports 70 Ecological Vegetation Classes (EVCs), with 16 of these listed as having a Bioregional Conservation Status (BCS) of Endangered. The region is largely intact with nearly 87% of the pre-1750 EVCs remaining, however, only 23% of the remaining vegetation is protected on conservation land. The region supports a wide variety of threatened species, including Commonwealth Environment Protection and Biodiversity Conservation (EPBC) Act listed Golden Sun Moth (*Synemon plana*), Growling Grass Frog (*Litoria raniformis*) and Australian Grayling (*Prototroctes maraena*) and the Victorian Flora and Fauna Guarantee (FFG) Act listed Brush-tailed Phascogale (*Phascogale tapoatafa*), Leadbeater's possum (*Gymnobelideus leadbeateri*) and Regent Honeyeater (*Xanthomyza phrygia*). Also FFG listed is Helmeted Honeyeater (*Lichenostomus melanops cassidix*). Its range has contracted to a small area with the Highland – Southern Falls Bioregion and includes several breeding sites at Yellingbo State Natural Reserve, which are yet to be protected. Land use in the bioregion is largely dominated by timber harvesting and water production, with recreational activities also popular. Major ongoing threats to the region include continued clearing on private land, fire, weeds and introduced predator species. The region is also expected to become hotter and drier, due to the effects of climate change, with bushfire and drought risks increasingly concurrently.



**Highlands - Southern Fall
Bioregional Map 1a:
Landscape Priorities**

Legend

- Bioregion
- Other Bioregion
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes

Landscape Importance

High : 20
Low : 1



SKM

1:900,000
MGA94 VicGrid

0 5 10 20 30 40 50
Kilometres

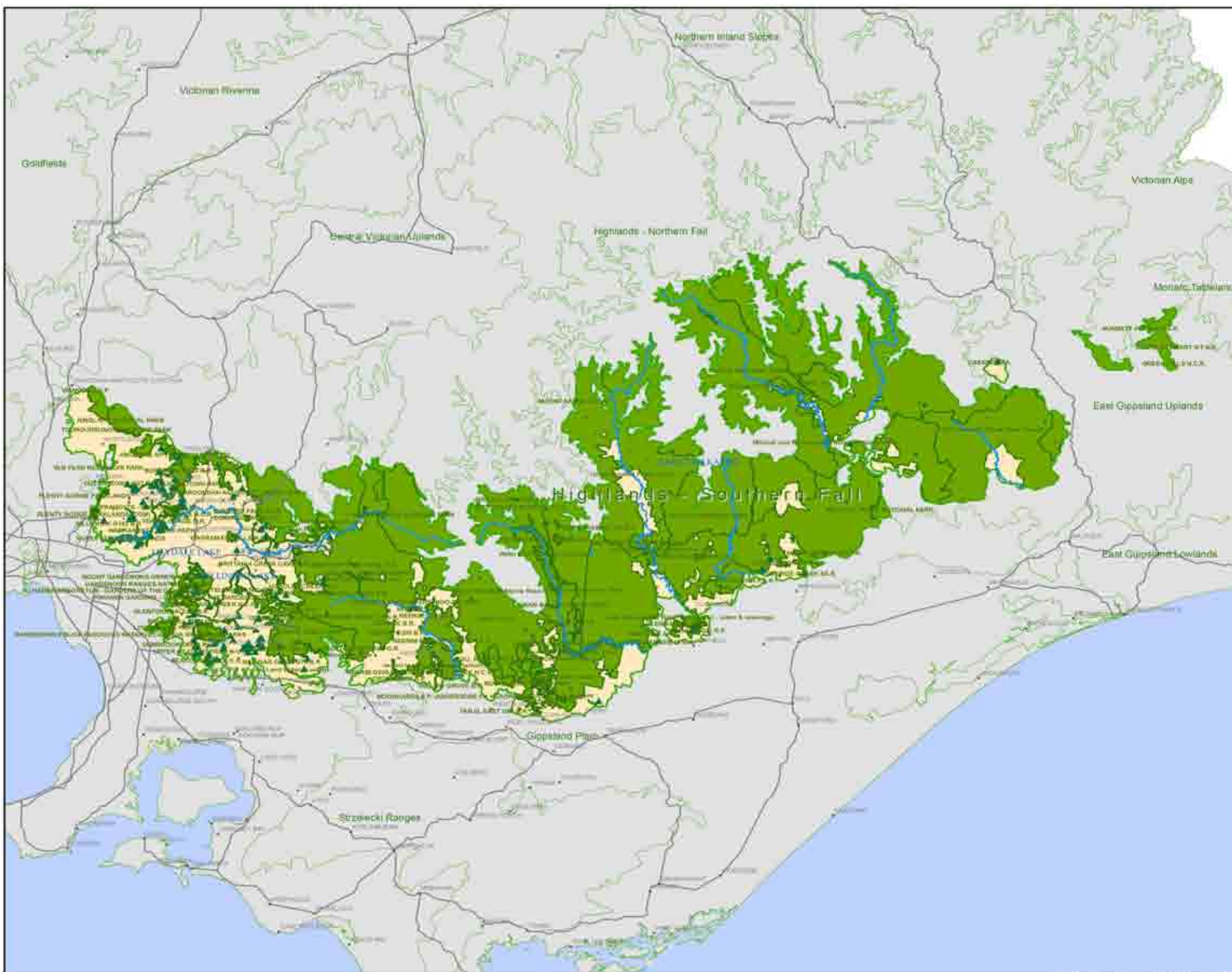
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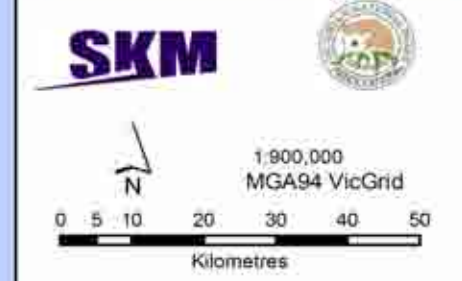


Terrestrial Biodiversity Review



**Highlands - Southern Fall
Bioregional Map 1b:
Protected Areas**

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes

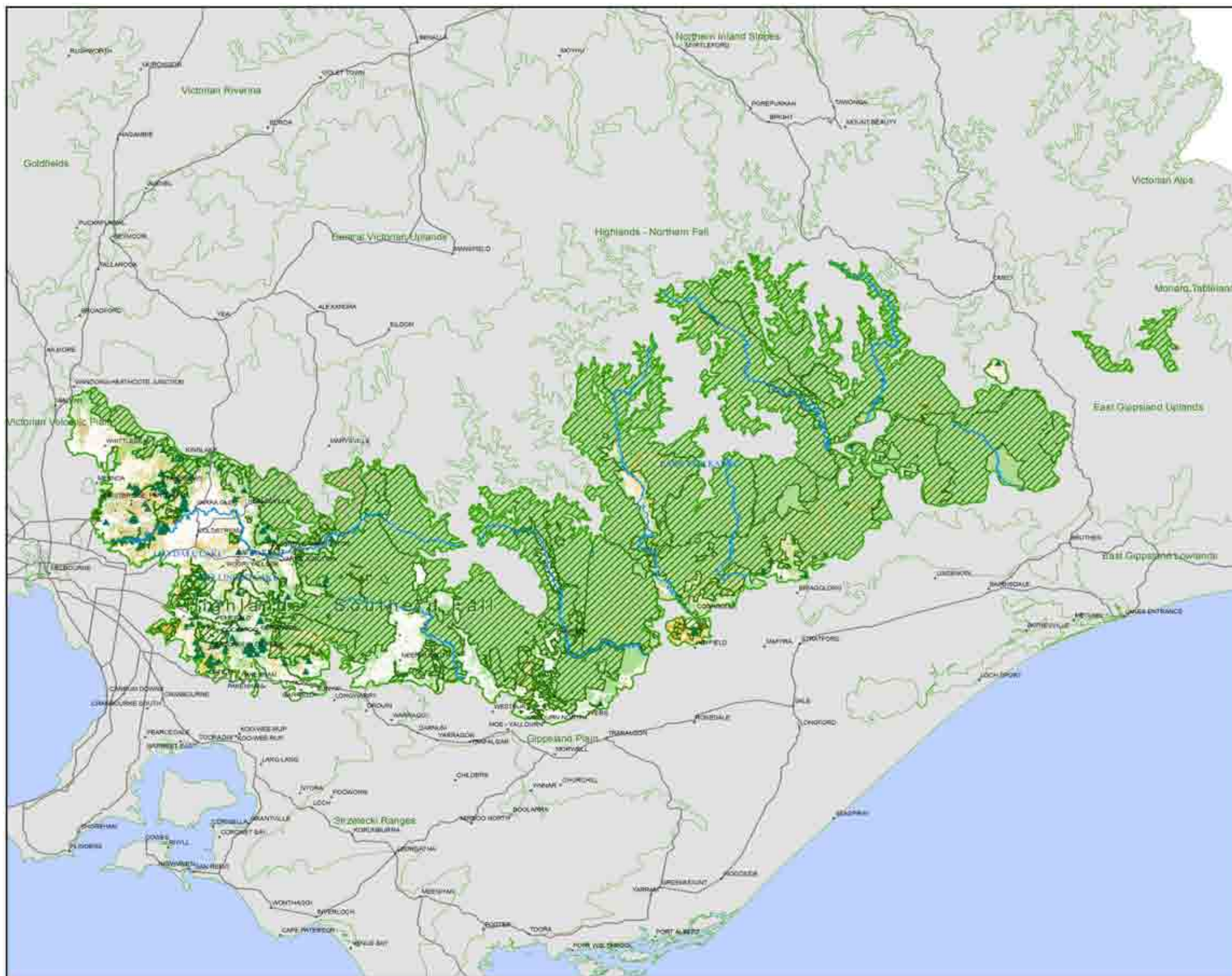


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Terrestrial Biodiversity Review



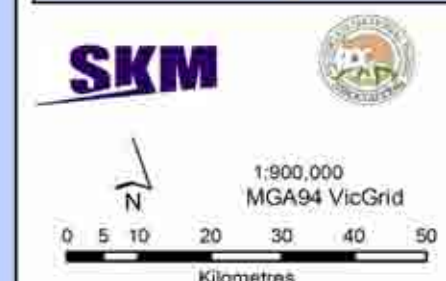
Highlands - Southern Fall Bioregional Map 2a: Vegetation Conservation Significance

Legend

- Bioregion
- Other Bioregion
- Updated Parks
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes

EVC Bioregional Conservation Status

- Endangered
- Vulnerable
- Depleted
- Rare
- Least Concern



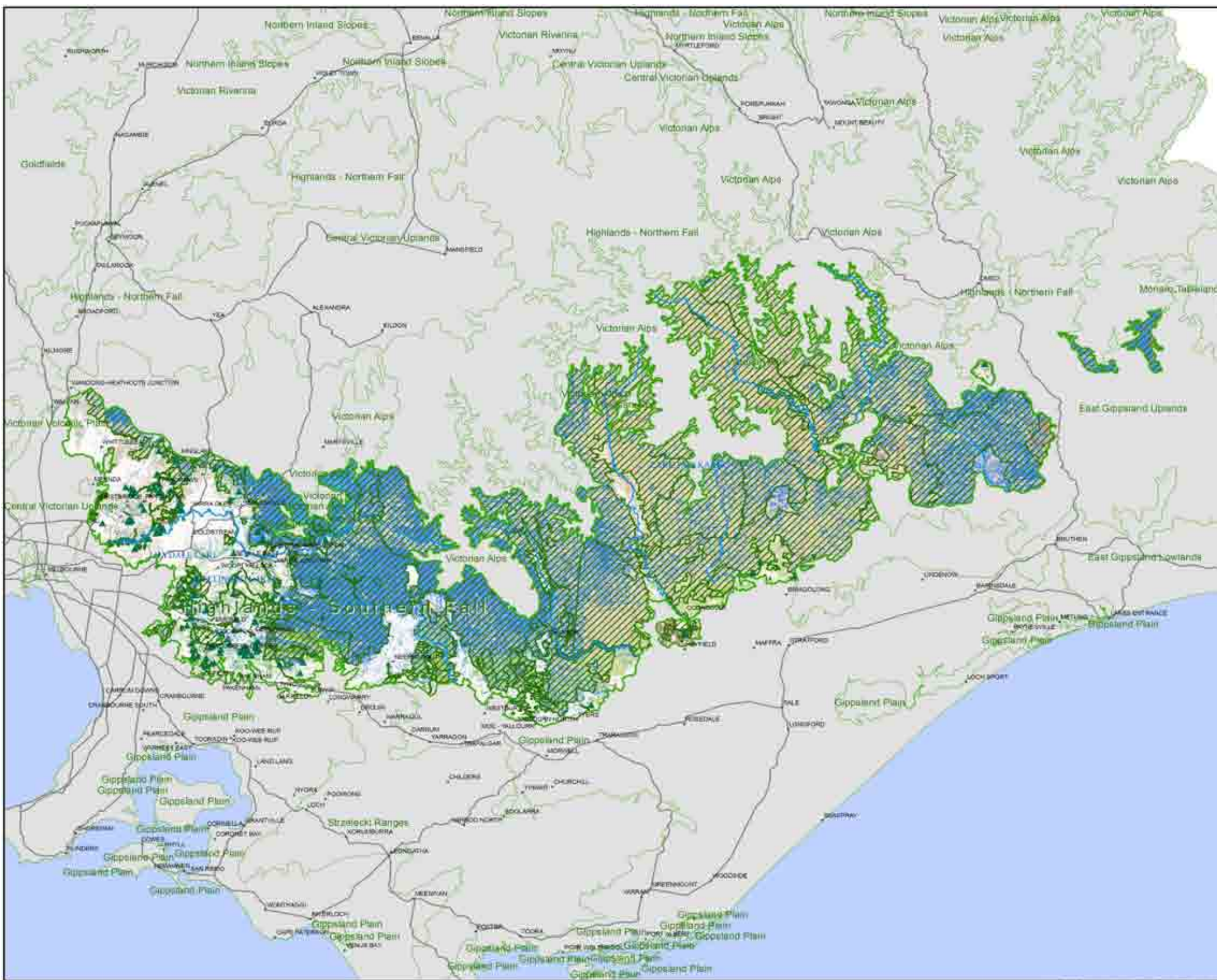
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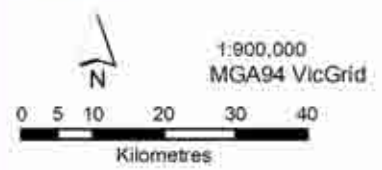


Terrestrial Biodiversity Review



**Highlands - Southern Fall
Bioregional Map 2b:
EVC Groups**

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- EVC Group**
- Coastal Scrubs Grasslands and Woodlands
 - Healthy Woodlands
 - Lowland Forests
 - Box Ironbark Forests or dry/lower fertility Woodlands
 - Lower Slopes or Hills Woodlands
 - Dry Forests
 - Wet or Damp Forests
 - Riparian Scrubs or Swampy Scrubs and Woodlands
 - Rainforests
 - Montane Grasslands, Shrublands or Woodlands
 - Sub-alpine Grasslands, Shrublands or Woodlands
 - Plains Grasslands and Chenopod Shrublands
 - Plains Woodlands or Forests
 - Riverine Grassy Woodlands or Forests
 - Herb-rich Woodlands
 - Heathlands
 - Mallee
 - Wetlands
 - Salt-tolerant and/or succulent Shrublands
 - Rocky Outcrop or Escarpment Scrubs
 - No native vegetation recorded



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Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
HSF	2	Coast Banksia Woodland	1	Coastal Scrubs Grasslands and Woodlands	not applicable	28	0	28	28	0	0	0	0	0	28	100.0	100.0	100.0
HSF	3	Damp Sands Herb-rich Woodland	15	Herb-rich Woodlands	Vulnerable	9	0	9	9	0	0	0	0	0	9	100.0	100.0	100.0
HSF	7	Clay Heathland	16	Heathlands	Depleted	42	15	5	20	0	0	15	0	17	37	89.0	54.1	48.2
HSF	15	Limestone Box Forest	3	Lowland Forests	Vulnerable	2	0	2	2	0	0	0	0	0	2	100.0	100.0	100.0
HSF	16	Lowland Forest	3	Lowland Forests	Least Concern	102820	11680	27890	39571	4485	0	11680	0	30010	74065	72.0	53.4	38.5
HSF	17	Riparian Scrub/Swampy Riparian Woodland Complex	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	7107	507	41	548	167	0	507	0	3357	4072	57.3	13.5	7.7
HSF	18	Riparian Forest	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	32888	8526	11721	20247	3767	0	8526	0	4499	28513	86.7	71.0	61.6
HSF	19	Riparian Shrubland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Rare	954	271	202	473	348	0	271	0	87	909	95.3	52.1	49.6
HSF	20	Heathy Dry Forest	6	Dry Forests	Least Concern	40569	12949	22022	34970	4256	0	12949	0	1000	40226	99.2	86.9	86.2
HSF	21	Shrubby Dry Forest	6	Dry Forests	Least Concern	221492	50985	142893	193879	16716	0	50985	0	9949	220544	99.6	87.9	87.5
HSF	22	Grassy Dry Forest	6	Dry Forests	Least Concern	42679	8682	7374	16056	2932	0	8682	0	14280	33268	77.9	48.3	37.6
HSF	23	Herb-rich Foothill Forest	6	Dry Forests	Least Concern	115474	39315	46225	85540	9307	0	39315	0	13012	107859	93.4	79.3	74.1
HSF	27	Blackthorn Scrub	20	Rocky Outcrop or Escarpment Scrubs	Least Concern	3647	190	3400	3590	0	0	190	0	51	3641	99.8	98.6	98.4
HSF	28	Rocky Outcrop Shrubland	20	Rocky Outcrop or Escarpment Scrubs	Rare	210	99	76	175	2	0	99	0	33	210	99.7	83.5	83.3
HSF	29	Damp Forest	7	Wet or Damp Forests	Least Concern	207333	28245	127105	155350	8418	0	28245	0	20998	184765	89.1	84.1	74.9
HSF	30	Wet Forest	7	Wet or Damp Forests	Least Concern	113938	32325	71110	103434	1542	0	32325	0	6329	111305	97.7	92.9	90.8
HSF	31	Cool Temperate Rainforest	9	Rainforests	Endangered	6395	3831	2425	6256	74	0	3831	0	56	6386	99.8	98.0	97.8
HSF	32	Warm Temperate Rainforest	9	Rainforests	Rare	512	8	505	512	0	0	8	0	0	512	100.0	100.0	100.0
HSF	33	Cool Temperate Rainforest/Warm Temperate Rainforest Overlap	9	Rainforests	Endangered	21	0	21	21	0	0	0	0	0	21	100.0	100.0	100.0
HSF	34	Dry Rainforest	9	Rainforests	Endangered	3	0	3	3	0	0	0	0	0	3	100.0	100.0	100.0
HSF	35	Tableland Damp Forest	7	Wet or Damp Forests	Least Concern	468	18	401	419	49	0	18	0	0	468	100.1	89.5	89.5
HSF	36	Montane Dry Woodland	10	Montane Grasslands, Shrublands or Woodlands	Least Concern	6121	2645	3165	5810	268	0	2645	0	27	6104	99.7	95.2	94.9
HSF	37	Montane Grassy Woodland	10	Montane Grasslands, Shrublands or Woodlands	Depleted	2254	141	341	482	0	0	141	0	803	1285	57.0	37.5	21.4
HSF	38	Montane Damp Forest	7	Wet or Damp Forests	Least Concern	3038	1009	1902	2911	84	0	1009	0	30	3025	99.6	96.2	95.8
HSF	39	Montane Wet Forest	7	Wet or Damp Forests	Least Concern	1592	620	960	1579	9	0	620	0	3	1591	99.9	99.3	99.2
HSF	40	Montane Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	391	4	0	4	0	0	4	0	217	221	56.6	1.6	0.9
HSF	41	Montane Riparian Thicket	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	112	22	22	44	0	0	22	0	3	47	42.2	92.8	39.2
HSF	43	Sub-alpine Woodland	11	Sub-alpine Grasslands, Shrublands or Woodlands	Least Concern	14	12	3	16	3	0	12	0	0	18	134.0	85.3	114.3
HSF	44	Sub-alpine Treeless Vegetation	11	Sub-alpine Grasslands, Shrublands or Woodlands	Rare	0	23	14	36	3	0	23	0	0	39	0.0	92.8	0.0
HSF	45	Shrubby Foothill Forest	6	Dry Forests	Least Concern	65211	9639	35748	45387	3378	0	9639	0	7465	56230	86.2	80.7	69.6
HSF	47	Valley Grassy Forest	6	Dry Forests	Vulnerable	33637	1512	323	1835	588	0	1512	0	8921	11344	33.7	16.2	5.5
HSF	48	Heathy Woodland	2	Heathy Woodlands	Least Concern	2019	812	983	1795	25	0	812	0	101	1921	95.1	93.4	88.9
HSF	53	Swamp Scrub	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	1071	26	0	26	25	0	26	0	219	270	25.2	9.5	2.4
HSF	55	Plains Grassy Woodland	13	Plains Woodlands or Forests	Endangered	2085	0	0	0	143	0	0	0	283	426	20.4	0.1	0.0
HSF	56	Floodplain Riparian Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	1918	34	1	35	285	0	34	0	436	756	39.4	4.7	1.9
HSF	59	Riparian Thicket	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	1204	77	6	83	110	0	77	0	578	771	64.1	10.8	6.9
HSF	61	Box Ironbark Forest	4	Box Ironbark Forests or dry/lower fertility Woodlands	Vulnerable	8741	855	51	906	924	0	855	0	3548	5378	61.5	16.8	10.4
HSF	68	Creepline Grassy Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	16	0	0	0	1	0	0	0	3	4	24.9	0.0	0.0
HSF	73	Rocky Outcrop Shrubland/Rocky Outcrop Herbland Mosaic	20	Rocky Outcrop or Escarpment Scrubs	Least Concern	8303	5982	1908	7889	365	0	5982	0	41	8295	99.9	95.1	95.0
HSF	74	Wetland Formation	18	Wetlands	Endangered	12	0	0	0	0	0	0	4	0	4	36.6	0.0	0.0
HSF	82	Riverine Escarpment Scrub	20	Rocky Outcrop or Escarpment Scrubs	Least Concern	5176	948	3443	4391	495	0	948	0	249	5135	99.2	85.5	84.8

Terrestrial Biodiversity Review

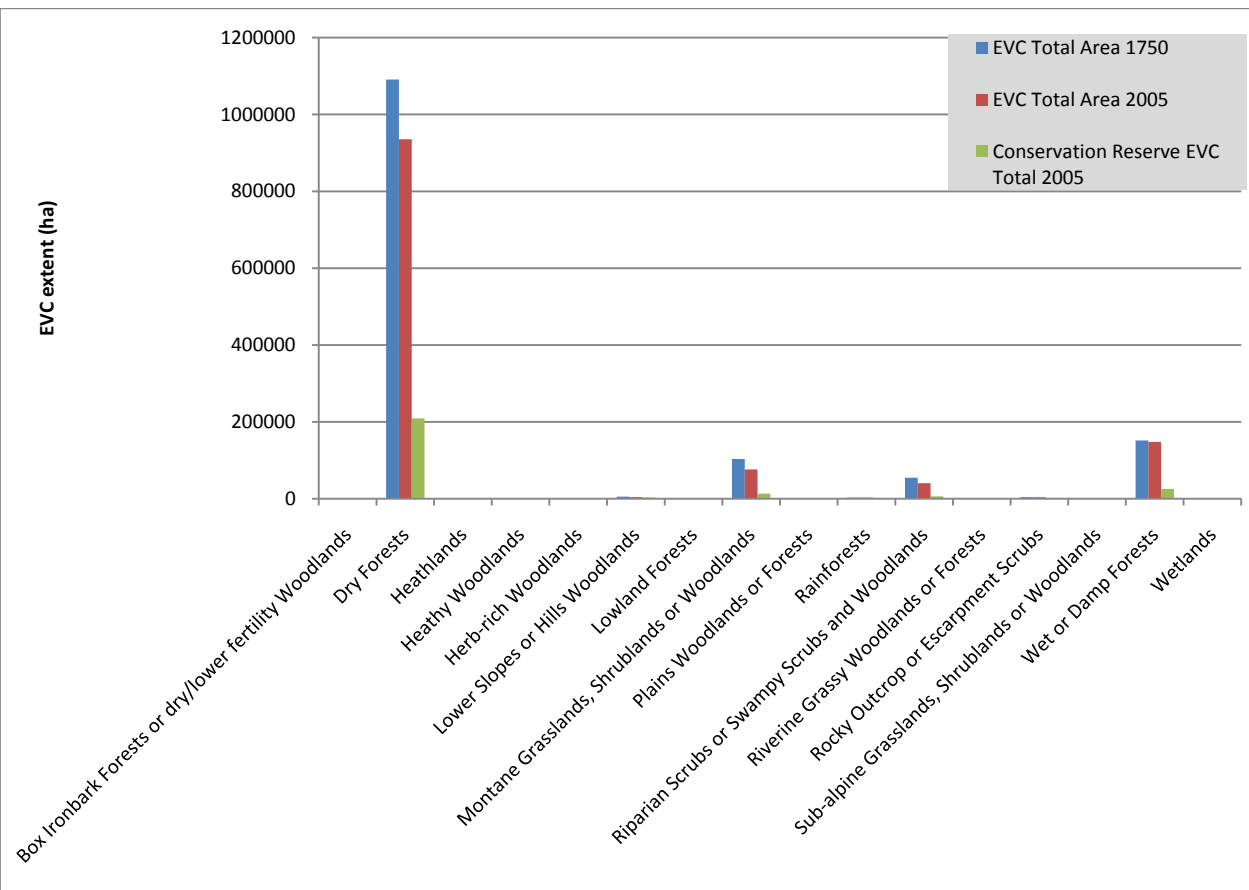
BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
HSF	83	Swampy Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	2325	576	15	591	195	0	576	0	350	1136	48.8	52.0	25.4
HSF	84	Riparian Forest/Swampy Riparian Woodland/Riparian Shrubland/Riverine Escarpment Scrub Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	7	0	2	2	0	0	0	0	4	6	84.7	38.9	32.9
HSF	106	Grassy Riverine Forest	14	Riverine Grassy Woodlands or Forests	not applicable	175	0	0	0	10	0	0	0	21	31	17.8	0.0	0.0
HSF	125	Plains Grassy Wetland	18	Wetlands		0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
HSF	126	Swampy Riparian Complex	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	19171	297	6	303	190	0	297	0	4520	5013	26.1	6.1	1.6
HSF	127	Valley Heathy Forest	6	Dry Forests	Vulnerable	1017	5	239	244	1	0	5	0	246	490	48.2	49.7	23.9
HSF	128	Grassy Forest	6	Dry Forests	Vulnerable	11753	1049	2	1051	31	0	1049	0	3860	4942	42.0	21.3	8.9
HSF	132	Plains Grassland	12	Plains Grasslands and Chenopod Shrublands		44	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
HSF	151	Plains Grassy Forest	13	Plains Woodlands or Forests	Endangered	1034	6	0	6	40	0	6	0	168	215	20.8	3.0	0.6
HSF	159	Clay Heathland/Wet Heathland/Riparian Scrub Mosaic	16	Heathlands	Depleted	4039	2466	138	2604	25	0	2466	0	637	3267	80.9	79.7	64.5
HSF	164	Creekline Herb-rich Woodland	15	Herb-rich Woodlands	Vulnerable	6356	100	13	112	141	0	100	0	2341	2594	40.8	4.3	1.8
HSF	169	Dry Valley Forest	6	Dry Forests	Vulnerable	13938	2543	7599	10142	894	0	2543	0	1396	12431	89.2	81.6	72.8
HSF	175	Grassy Woodland	5	Lower Slopes or Hills Woodlands	Depleted	9027	2142	476	2617	220	0	2142	0	2700	5538	61.3	47.3	29.0
HSF	177	Valley Slopes Dry Forest	6	Dry Forests	Least Concern	1675	380	942	1322	51	0	380	0	269	1642	98.1	80.5	78.9
HSF	191	Riparian Scrub	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	245	0	0	0	0	0	0	0	21	21	8.8	0.3	0.0
HSF	192	Montane Rocky Shrubland	10	Montane Grasslands, Shrublands or Woodlands	Rare	278	260	17	276	0	0	260	0	0	276	99.5	100.0	99.5
HSF	201	Shrubby Wet Forest	7	Wet or Damp Forests	Least Concern	1712	3	1654	1657	54	0	3	0	1	1712	100.0	96.8	96.8
HSF	206	Sub-alpine Grassland	11	Sub-alpine Grasslands, Shrublands or Woodlands	Rare	115	97	11	108	0	0	97	0	0	108	93.6	100.0	93.6
HSF	210	Sub-alpine Wet Heathland	16	Heathlands	Endangered	8	5	3	8	0	0	5	0	0	8	99.8	100.0	99.8
HSF	259	Plains Grassy Woodland/Gilgai Wetland Mosaic	13	Plains Woodlands or Forests	Endangered	11	0	0	0	0	0	0	1	0	1	12.1	0.0	0.0
HSF	315	Shrubby Foothill Forest/Damp Forest Complex	6	Dry Forests	Least Concern	7993	193	7465	7658	11	0	193	0	244	7913	99.0	96.8	95.8
HSF	316	Shrubby Damp Forest	7	Wet or Damp Forests	Least Concern	55288	4793	45766	50559	4199	0	4793	0	487	55245	99.9	91.5	91.4
HSF	319	Montane Herb-rich Woodland	10	Montane Grasslands, Shrublands or Woodlands	Least Concern	190	26	163	189	0	0	26	0	1	190	100.0	99.3	99.3
HSF	320	Grassy Dry Forest/Heathy Dry Forest Complex	6	Dry Forests	Least Concern	154	153	0	153	0	0	153	0	1	154	100.0	99.6	99.6
HSF	408	Valley Grassy Forest/Herb-rich Foothill Forest Complex	6	Dry Forests		65	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
HSF	688	Swampy Riparian Woodland/Swamp Scrub Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	0	0	0	0	0	0	0	1	0	1	0.0	0.0	0.0
HSF	693	Plains Woodland/Plains Grassland Mosaic	13	Plains Woodlands or Forests		37	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
HSF	793	Damp Heathy Woodland	2	Heathy Woodlands	Depleted	12519	2873	37	2911	803	0	2873	0	2908	6622	52.9	44.0	23.2
HSF	877	Lowland Herb-rich Forest	3	Lowland Forests	Depleted	6564	753	1947	2699	39	0	753	0	2914	5652	86.1	47.8	41.1
HSF	895	Escarpment Shrubland	13	Plains Woodlands or Forests	Endangered	236	3	0	3	173	0	3	0	40	216	91.6	1.5	1.3
HSF	897	Plains Grassland/Plains Grassy Woodland Mosaic	12	Plains Grasslands and Chenopod Shrublands	Endangered	0	0	0	0	1	0	0	0	2	2	0.0	0.0	0.0
HSF	902	Gully Woodland	6	Dry Forests	Vulnerable	420	117	0	117	15	0	117	0	231	364	86.7	32.2	27.9
HSF	937	Swampy Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	162	6	0	6	15	0	6	0	205	227	139.8	2.9	4.0
Total						1,196,066	240,851	578,821	819,672	65,875	0	240,851	6	150,174	1,035,727	86.6%	23.3%	20.1%

25. Highlands – Northern Fall

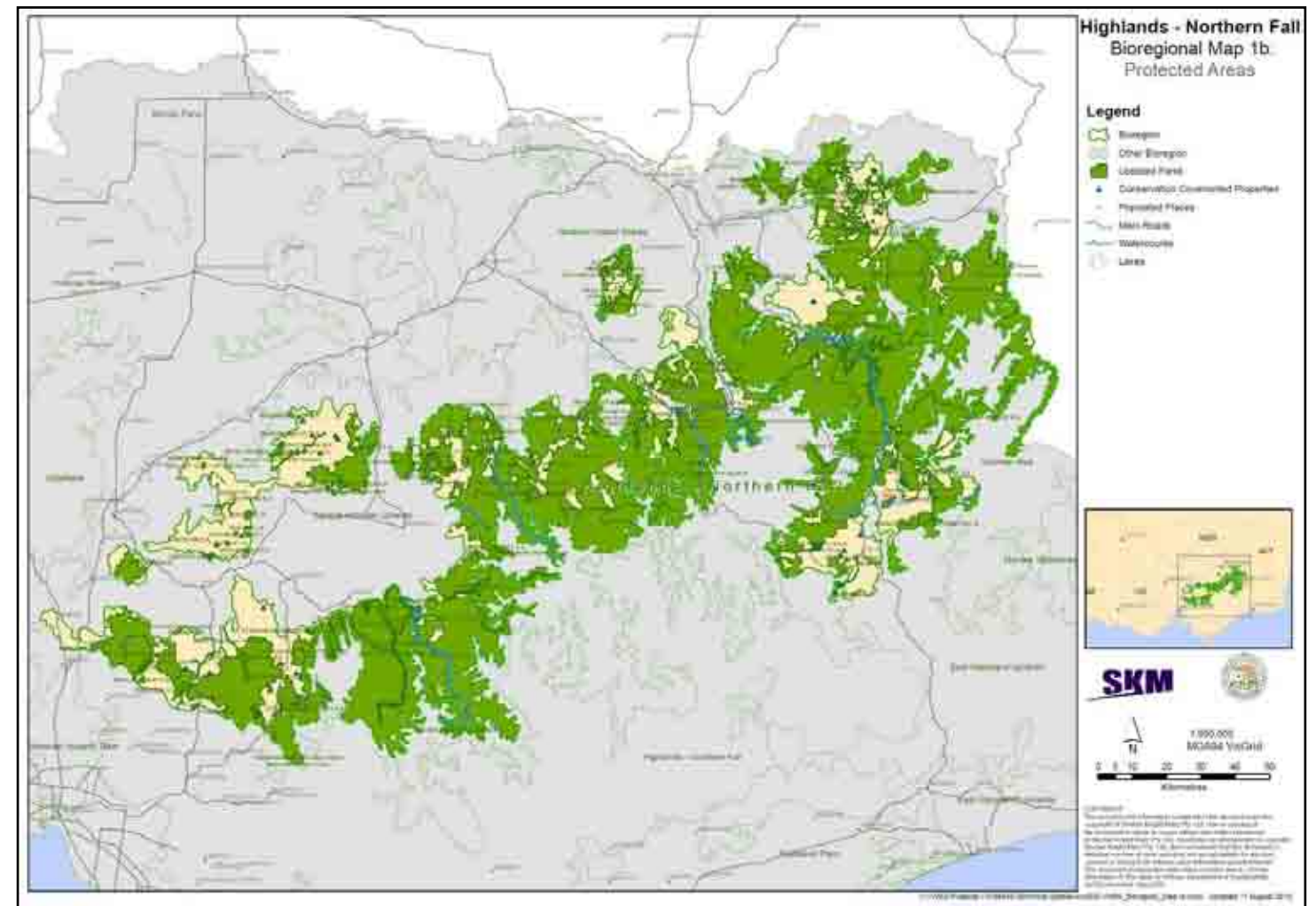
Bioregion size: 1 415 346 ha
 Native vegetation cover: 1 215 199 ha (86%)
 Conservation reserve cover (excludes State Forests): 261 736 ha (22%)

Large areas of native vegetation in the Bioregion are located on non-conservation public land, particularly EVCs from the Dry Forests and Wet or Damp Forests EVC groups. Small areas of Endangered EVCs are present and should be given conservation priority. The Bioregion would benefit from increased conservation protection for available areas, as well as increasing connectivity between smaller remnant patches and core conservation areas by increasing the Riparian vegetation under protection, of which there are small areas available.

The Highlands – Northern Fall (HNF) Bioregion covers approximately 1 415 346 ha of central-eastern Victoria north of the Great Dividing Range, from Kilmore, through Jamieson, Bright and Omeo, reaching the New South Wales Border south of Corryong. The Highlands – Northern Fall are also classified in the Interim Bioregionalisation of Australia (IBRA) as sub-region SEH2. The Bioregion is typified by moderate to steep slopes with high plains plateaus of sedimentary and granitic rocks, with alluvial flats within the major valleys. Vegetation in the bioregion is predominately Damp Forest and Heathy Dry Forest in higher areas, with Herb-rich Foothill Forest and Shrubby Dry Forest in the lower slopes. The Bioregion is under the jurisdiction of both the Goulburn Broken Catchment Management Authority (CMA) and the North East CMA, which are proposed merge in 2011, to form the Northern Rivers Natural Resources and Catchment Authority (NRCA).



■ Figure 25-1 EVC Group Breakdown

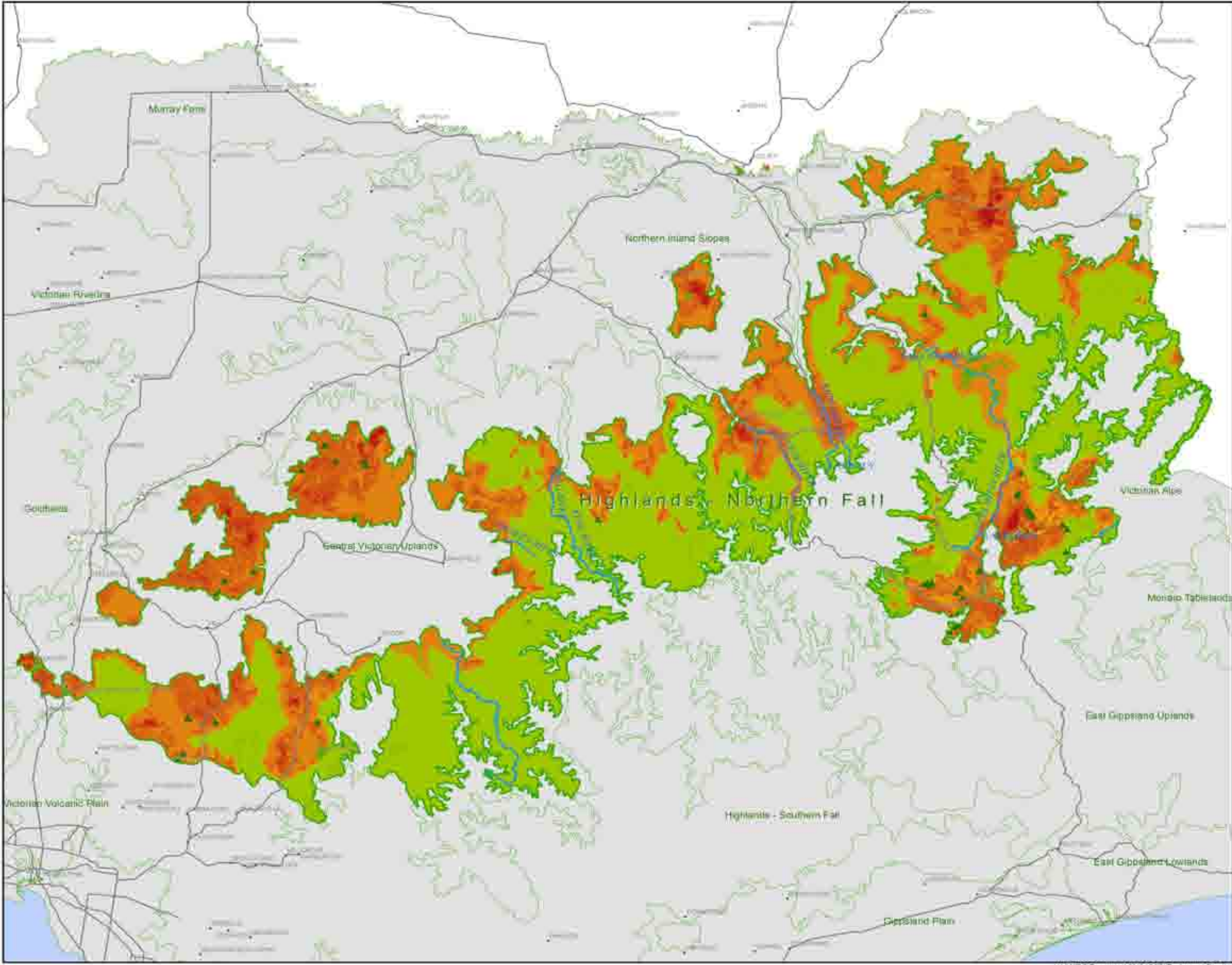


■ Figure 25-2 Protected Areas – Highlands – Northern Fall

There are no Ramsar sites in the Bioregion. Approximately 86% of the pre-European native vegetation extent remains. In spite of modest reserves including the Kinglake National Park, Cathedral Range State Park, Alpine National Park, and the lower areas of the Mount Buffalo National Park, only 22% of remnant native vegetation in the Bioregion is protected in Crown land for conservation. There are 60 published Ecological Vegetation Classes (EVCs) in the Bioregion, although only 13 of these have a Conservation Status of Endangered. The region is home to a number of threatened species including the Commonwealth Environment Protection and Biodiversity Conservation (EPBC) Act listed Don's Spider Orchid (*Caladenia cremna*), Smoky Mouse (*Pseudomys fumeus*) and Growling Grass Frog (*Litoria raniformis*) and the Victorian Flora and Fauna Guarantee (FFG) Act listed Leadbeater's Possum (*Gymnobelideus leadbeateri*), Regent Honeyeater (*Xanthomyza phrygia*) and Long-footed Potoroo (*Potorous longipes*). Timber harvesting and water production are the major land uses in the region, while tourism and recreational activities are also popular. Appropriate fire management regimes and strategic weed and introduced predator management programs need to be effectively implemented to maintain the biodiversity values of the area. The region is expected to become hotter and drier, due to the effects of climate change, with runoff into the region's rivers projected to reduce by up to 50% of current levels.



Terrestrial Biodiversity Review



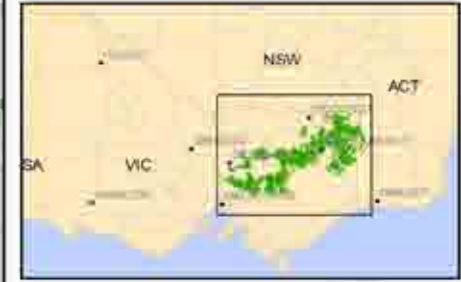
Highlands - Northern Fall Bioregional Map 1a: Landscape Priorities

Legend

- Bioregion
- Other Bioregion
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes

Landscape Importance

High : 20
Low : 1



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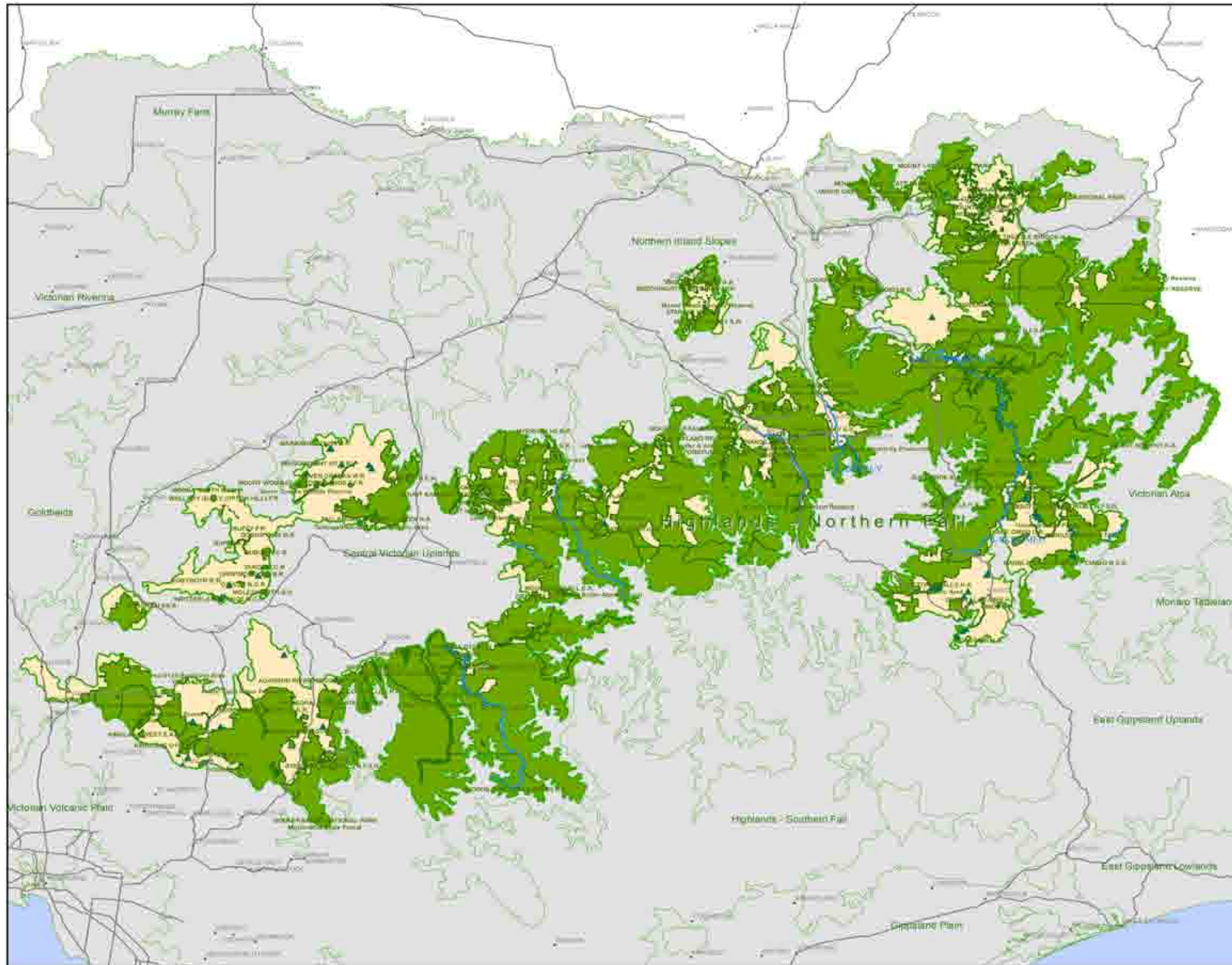
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Kilometres

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Highlands - Northern Fall
Bioregional Map 1b:
Protected Areas

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes



SKM

1:900,000
 MGA94 VicGrid

0 5 10 20 30 40 50
 Kilometres

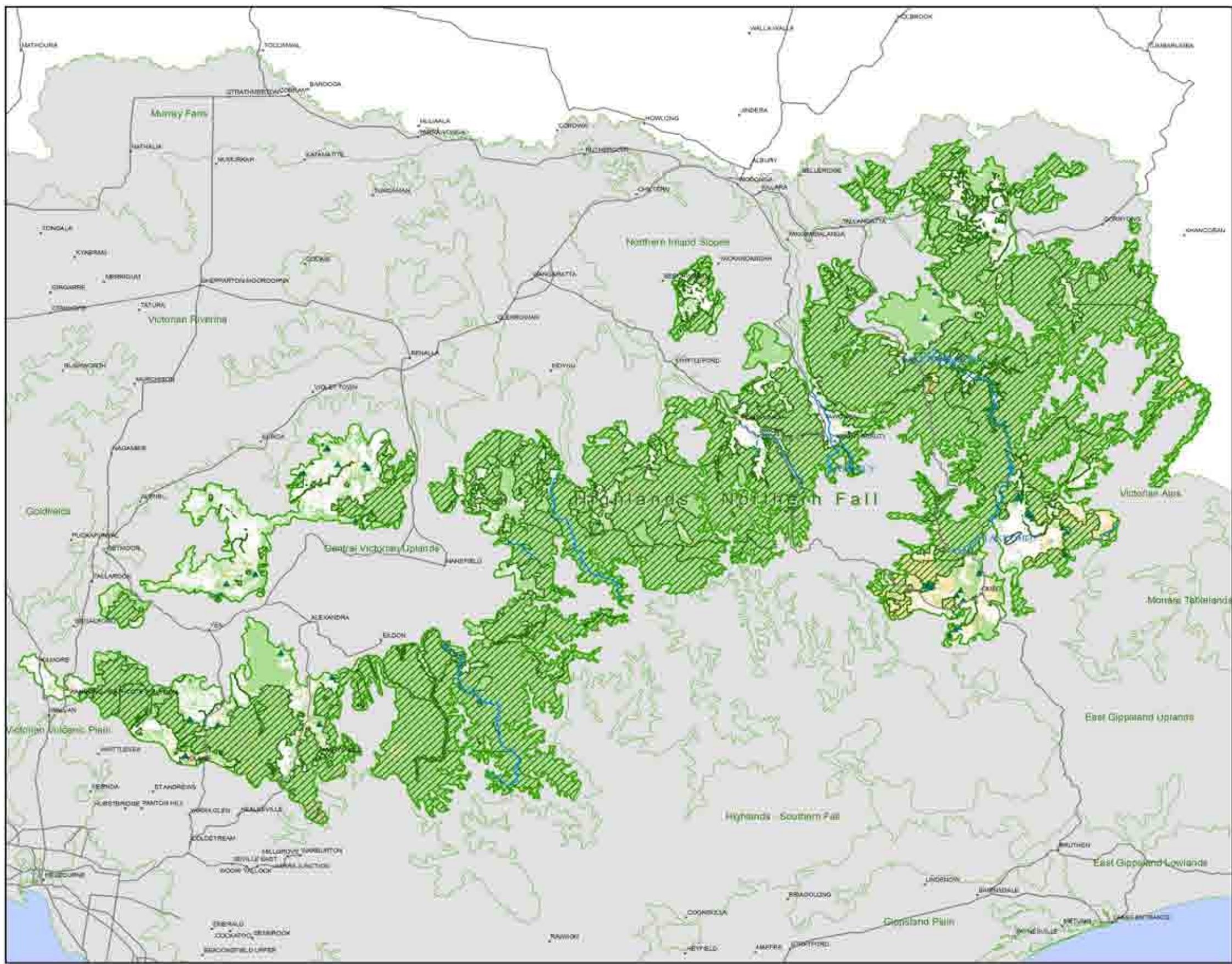
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Terrestrial Biodiversity Review

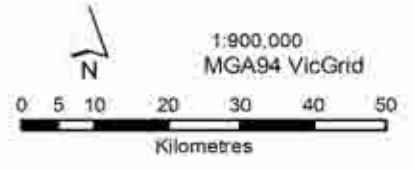


**Highlands - Northern Fall
Bioregional Map 2a:
Vegetation Conservation
Significance**

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- EVC Bioregional Conservation Status**
- Endangered
 - Vulnerable
 - Depleted
 - Rare
 - Least Concern



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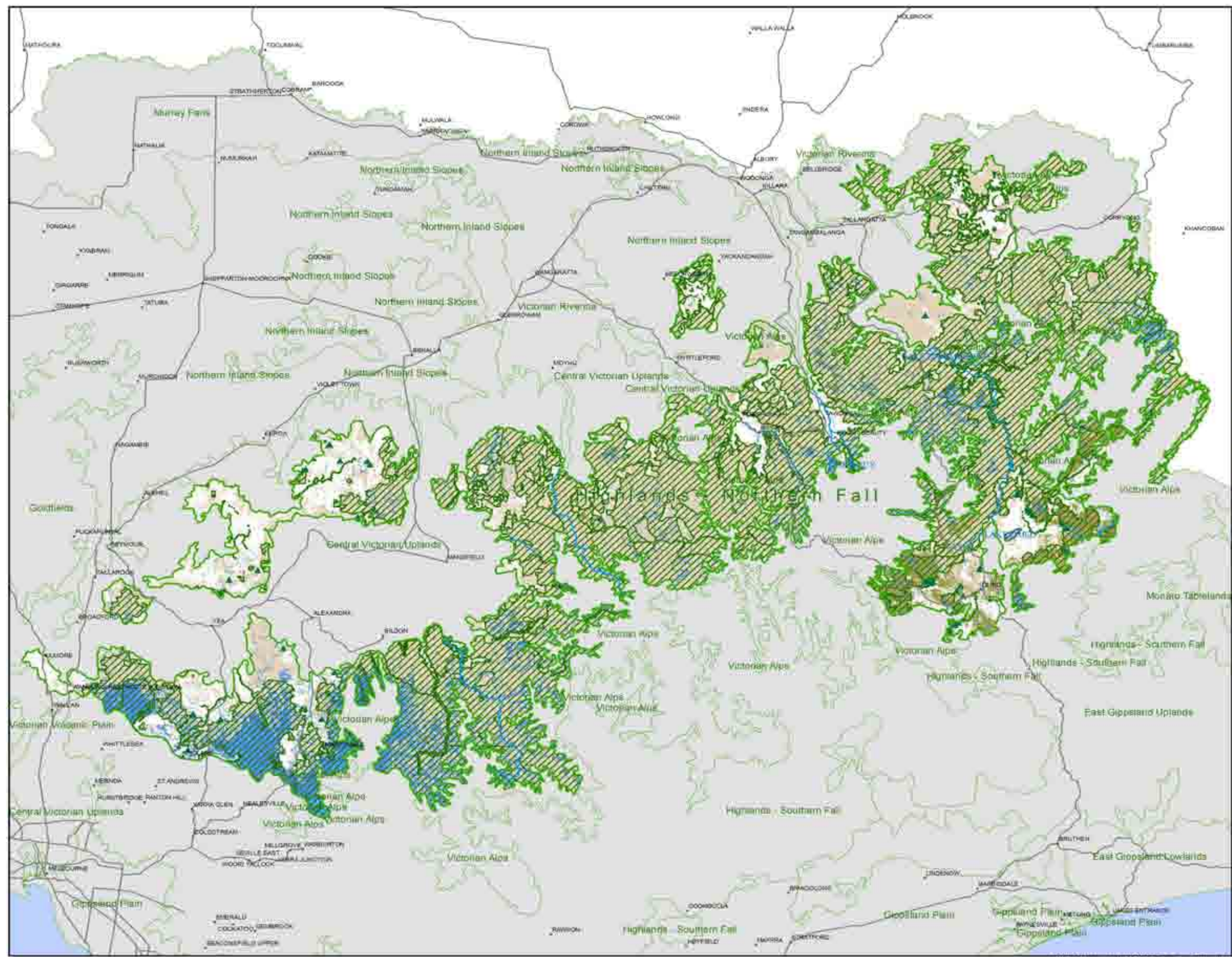
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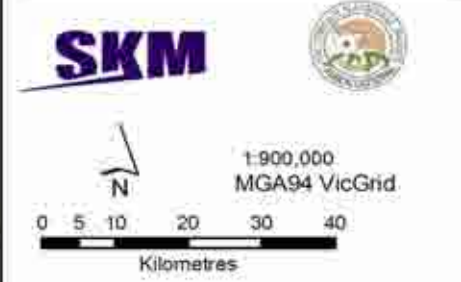


Terrestrial Biodiversity Review



**Highlands - Northern Fall
Bioregional Map 2b:
EVC Groups**

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenant Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- EVC Group**
- Coastal Scrubs Grasslands and Woodlands
 - Healthy Woodlands
 - Lowland Forests
 - Box Ironbark Forests or dryflower family Woodlands
 - Lower Slopes or Hills Woodlands
 - Dry Forests
 - Wet or Damp Forests
 - Riparian Scrubs or Swampy Scrubs and Woodlands
 - Rainforests
 - Montane Grasslands, Shrublands or Woodlands
 - Sub-alpine Grasslands, Shrublands or Woodlands
 - Plains Grasslands and Chenopod Shrublands
 - Plains Woodlands or Forests
 - Riverine Grassy Woodlands or Forests
 - Herb-rich Woodlands
 - Heathlands
 - Mallee
 - Wetlands
 - Salt-tolerant and/or succulent Shrublands
 - Rocky Outcrop or Escarpment Scrubs
 - No native vegetation recorded



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Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
HNF	3	Damp Sands Herb-rich Woodland	15	Herb-rich Woodlands	Vulnerable	41	0	0	0	25	0	0	0	7	32	77.1	0.0	0.0
HNF	7	Clay Heathland	16	Heathlands	Vulnerable	27	16	4	20	0	0	16	0	5	25	92.0	80.4	73.9
HNF	16	Lowland Forest	3	Lowland Forests	Least Concern	1371	478	471	949	0	0	478	0	250	1199	87.4	79.1	69.2
HNF	17	Riparian Scrub/Swampy Riparian Woodland Complex	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	39	0	6	6	0	0	0	0	20	26	67.7	23.9	16.1
HNF	18	Riparian Forest	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	27328	3662	14822	18484	2629	0	3662	0	3208	24321	89.0	76.0	67.6
HNF	19	Riparian Shrubland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	609	493	0	494	95	0	493	0	13	602	98.9	82.0	81.1
HNF	20	Heathy Dry Forest	6	Dry Forests	Least Concern	105901	45885	43617	89502	2441	0	45885	0	9304	101248	95.6	88.4	84.5
HNF	21	Shrubby Dry Forest	6	Dry Forests	Least Concern	292418	61521	191406	252927	16263	0	61521	0	11316	280506	95.9	90.2	86.5
HNF	22	Grassy Dry Forest	6	Dry Forests	Least Concern	45095	5971	16614	22585	1871	0	5971	0	11426	35882	79.6	62.9	50.1
HNF	23	Herb-rich Foothill Forest	6	Dry Forests	Least Concern	633310	94876	302215	397091	26284	0	94876	0	87827	511202	80.7	77.7	62.7
HNF	27	Blackthorn Scrub	20	Rocky Outcrop or Escarpment Scrubs	Rare	204	175	0	175	0	0	175	0	20	195	95.7	89.7	85.8
HNF	28	Rocky Outcrop Shrubland	20	Rocky Outcrop or Escarpment Scrubs	Least Concern	1443	549	864	1413	0	0	549	0	27	1440	99.8	98.1	97.9
HNF	29	Damp Forest	7	Wet or Damp Forests	Least Concern	105028	17640	77411	95050	2151	0	17640	0	4270	101471	96.6	93.7	90.5
HNF	30	Wet Forest	7	Wet or Damp Forests	Least Concern	33661	5047	26450	31496	822	0	5047	0	1000	33318	99.0	94.5	93.6
HNF	31	Cool Temperate Rainforest	9	Rainforests	Endangered	2743	625	2021	2646	69	0	625	0	28	2743	100.0	96.5	96.5
HNF	32	Warm Temperate Rainforest	9	Rainforests	Rare	15	0	15	15	0	0	0	0	0	15	100.0	100.0	100.0
HNF	35	Tableland Damp Forest	7	Wet or Damp Forests	Least Concern	3	3	0	3	0	0	3	0	0	3	100.1	100.0	100.1
HNF	36	Montane Dry Woodland	10	Montane Grasslands, Shrublands or Woodlands	Least Concern	34596	5698	15572	21270	1127	0	5698	0	6432	28830	83.3	73.8	61.5
HNF	37	Montane Grassy Woodland	10	Montane Grasslands, Shrublands or Woodlands	Depleted	46089	774	14051	14825	475	0	774	0	15126	30425	66.0	48.7	32.2
HNF	38	Montane Damp Forest	7	Wet or Damp Forests	Least Concern	10686	2197	7636	9832	241	0	2197	0	426	10498	98.2	93.7	92.0
HNF	39	Montane Wet Forest	7	Wet or Damp Forests	Least Concern	2271	668	1579	2247	7	0	668	0	16	2270	100.0	99.0	99.0
HNF	40	Montane Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	5327	429	352	781	459	0	429	0	1741	2981	56.0	26.2	14.7
HNF	41	Montane Riparian Thicket	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Rare	844	52	637	689	116	0	52	0	22	827	98.0	83.3	81.6
HNF	43	Sub-alpine Woodland	11	Sub-alpine Grasslands, Shrublands or Woodlands	Least Concern	0	0	0	0	2	0	0	0	422	423	0.0	0.0	0.0
HNF	43	Sub-alpine Woodland	11	Sub-alpine Grasslands, Shrublands or Woodlands	Least Concern	398	308	108	416	0	0	308	0	8	423	106.5	98.1	104.5
HNF	44	Sub-alpine Treeless Vegetation	11	Sub-alpine Grasslands, Shrublands or Woodlands	Rare	0	4	134	138	0	0	4	0	145	283	0.0	48.8	0.0
HNF	44	Sub-alpine Treeless Mosaic	11	Sub-alpine Grasslands, Shrublands or Woodlands		0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
HNF	45	Shrubby Foothill Forest	6	Dry Forests	Depleted	4686	166	960	1126	13	0	166	0	1739	2878	61.4	39.1	24.0
HNF	47	Valley Grassy Forest	6	Dry Forests	Vulnerable	7679	290	883	1173	157	0	290	0	1718	3048	39.7	38.5	15.3
HNF	48	Heathy Woodland	2	Heathy Woodlands	Depleted	37	0	37	37	0	0	0	0	0	37	100.0	100.0	100.0
HNF	55	Plains Grassy Woodland	13	Plains Woodlands or Forests	Endangered	223	0	0	0	9	0	0	0	53	61	27.6	0.0	0.0
HNF	56	Floodplain Riparian Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	475	10	36	46	30	0	10	0	64	140	29.4	33.1	9.7
HNF	59	Riparian Thicket	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	855	25	493	519	0	0	25	0	93	612	71.6	84.8	60.7
HNF	68	Creekline Grassy Woodland	14	Riverine Grassy Woodlands or Forests	Endangered	1	0	0	0	0	0	0	0	0	0	16.5	0.0	0.0
HNF	72	Granitic Hills Woodland	4	Box Ironbark Forests or dry/lower fertility Woodlands	Least Concern	608	515	4	520	0	0	515	0	72	592	97.4	87.8	85.5
HNF	73	Rocky Outcrop Shrubland/Rocky Outcrop Hermland Mosaic	20	Rocky Outcrop or Escarpment Scrubs	Rare	1734	947	533	1480	13	0	947	0	141	1635	94.3	90.6	85.4
HNF	82	Riverine Escarpment Scrub	20	Rocky Outcrop or Escarpment Scrubs	Vulnerable	606	201	286	488	38	0	201	0	55	582	95.9	83.9	80.5
HNF	83	Swampy Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	3827	399	1140	1539	374	0	399	0	730	2643	69.1	58.2	40.2
HNF	84	Riparian Forest/Swampy Riparian Woodland/Riparian Shrubland/Riverine Escarpment Scrub Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Depleted	5779	798	2468	3267	542	0	798	0	390	4199	72.7	77.8	56.5
HNF	107	Lake Bed Hermland	18	Wetlands	not applicable	605	596	0	596	0	0	596	0	0	596	98.5	100.0	98.5

Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
HNF	126	Swampy Riparian Complex	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	3842	2	28	30	67	0	2	0	1087	1184	30.8	2.5	0.8
HNF	127	Valley Heathy Forest	6	Dry Forests	Endangered	878	81	0	81	0	0	81	0	266	348	39.6	23.4	9.3
HNF	169	Dry Valley Forest	6	Dry Forests	Vulnerable	31	2	0	2	0	0	2	0	9	11	34.2	16.3	5.6
HNF	172	Floodplain Wetland Aggregate	18	Wetlands	Least Concern	0	0	0	0	0	0	0	1	0	1	0.0	0.0	0.0
HNF	174	Grassy Dry Forest/Rocky Outcrop Shrubland/Rocky Outcrop Herbland Mosaic	6	Dry Forests	Least Concern	5	0	0	0	0	0	0	0	5	5	100.0	0.0	0.0
HNF	175	Grassy Woodland	5	Lower Slopes or Hills Woodlands	Depleted	5392	3142	152	3294	78	0	3142	0	880	4251	78.8	77.5	61.1
HNF	178	Herb-rich Foothill Forest/Shrubby Foothill Forest Complex	6	Dry Forests	Depleted	505	0	0	0	0	0	0	185	0	185	36.6	0.0	0.0
HNF	185	Perched Boggy Shrubland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	548	2	0	2	2	0	2	0	158	161	29.4	1.1	0.3
HNF	186	Plains Grassy Woodland/Floodplain Riparian Woodland Complex	13	Plains Woodlands or Forests	Endangered	99	0	1	1	2	0	0	0	32	35	35.2	3.0	1.0
HNF	201	Shrubby Wet Forest	7	Wet or Damp Forests	Least Concern	105	0	105	105	0	0	0	0	0	105	100.0	100.0	100.0
HNF	206	Sub-alpine Grassland	11	Sub-alpine Grasslands, Shrublands or Woodlands		2	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
HNF	207	Montane Grassy Shrubland	11	Sub-alpine Grasslands, Shrublands or Woodlands	Endangered	88	0	1	1	32	0	0	0	55	88	100.0	1.0	1.0
HNF	210	Sub-alpine Wet Heathland	16	Heathlands	Endangered	502	8	143	151	118	0	8	0	80	349	69.6	43.2	30.1
HNF	212	Swampy Riparian Woodland/Perched Boggy Shrubland Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	1354	46	0	46	48	0	46	0	415	509	37.6	9.0	3.4
HNF	237	Riparian Forest/Swampy Riparian Woodland Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	3500	69	319	389	726	0	69	0	599	1713	48.9	22.7	11.1
HNF	317	Sub-alpine Wet Heathland/Sub-alpine Grassland Mosaic	16	Heathlands	x	391	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
HNF	317	Sub-alpine Wet Heathland/Sub-alpine Grassland Mosaic	16	Heathlands	Endangered	391	74	19	93	0	0	74	0	70	163	41.8	57.2	23.9
HNF	318	Montane Swamp	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	514	22	0	22	105	0	22	0	240	367	71.4	6.0	4.3
HNF	319	Montane Herb-rich Woodland	10	Montane Grasslands, Shrublands or Woodlands	Least Concern	16774	6739	7451	14191	558	0	6739	0	1768	16517	98.5	85.9	84.6
HNF	320	Grassy Dry Forest/Heathy Dry Forest Complex	6	Dry Forests	Least Concern	376	376	0	376	0	0	376	0	0	376	100.0	100.0	100.0
HNF	702	Montane Grassland	10	Montane Grasslands, Shrublands or Woodlands	Endangered	2014	58	0	58	16	0	58	0	176	250	12.4	23.4	2.9
HNF	703	Montane Grassy Woodland/Montane Grassland Mosaic	10	Montane Grasslands, Shrublands or Woodlands	x	1868	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
HNF	703	Montane Grassy Woodland/Montane Grassland Mosaic	10	Montane Grasslands, Shrublands or Woodlands	Endangered	1868	0	4	4	1	0	0	0	144	149	8.0	3.0	0.2
HNF	937	Swampy Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	0	0	20	20	23	0	0	0	85	127	0.0	15.7	0.0
HNF	1003	Sub-alpine Dry Shrubland	11	Sub-alpine Grasslands, Shrublands or Woodlands	Rare	0	96	0	96	0	0	96	0	0	96	0.0	100.0	0.0
Total						1,417,607	261,736	731,069	992,805	58,027	0	261,736	185	164,182	1,215,199	85.7%	21.5%	18.5%

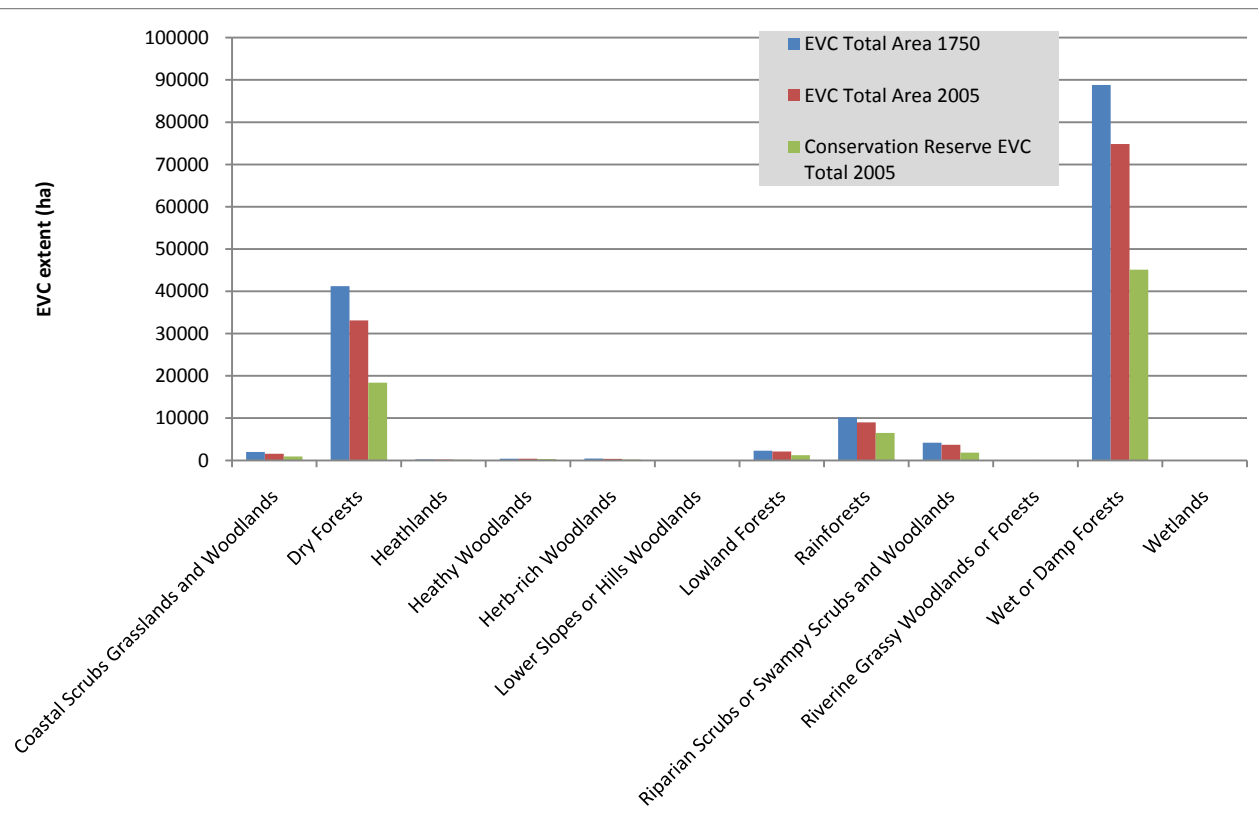


26. Otway Ranges

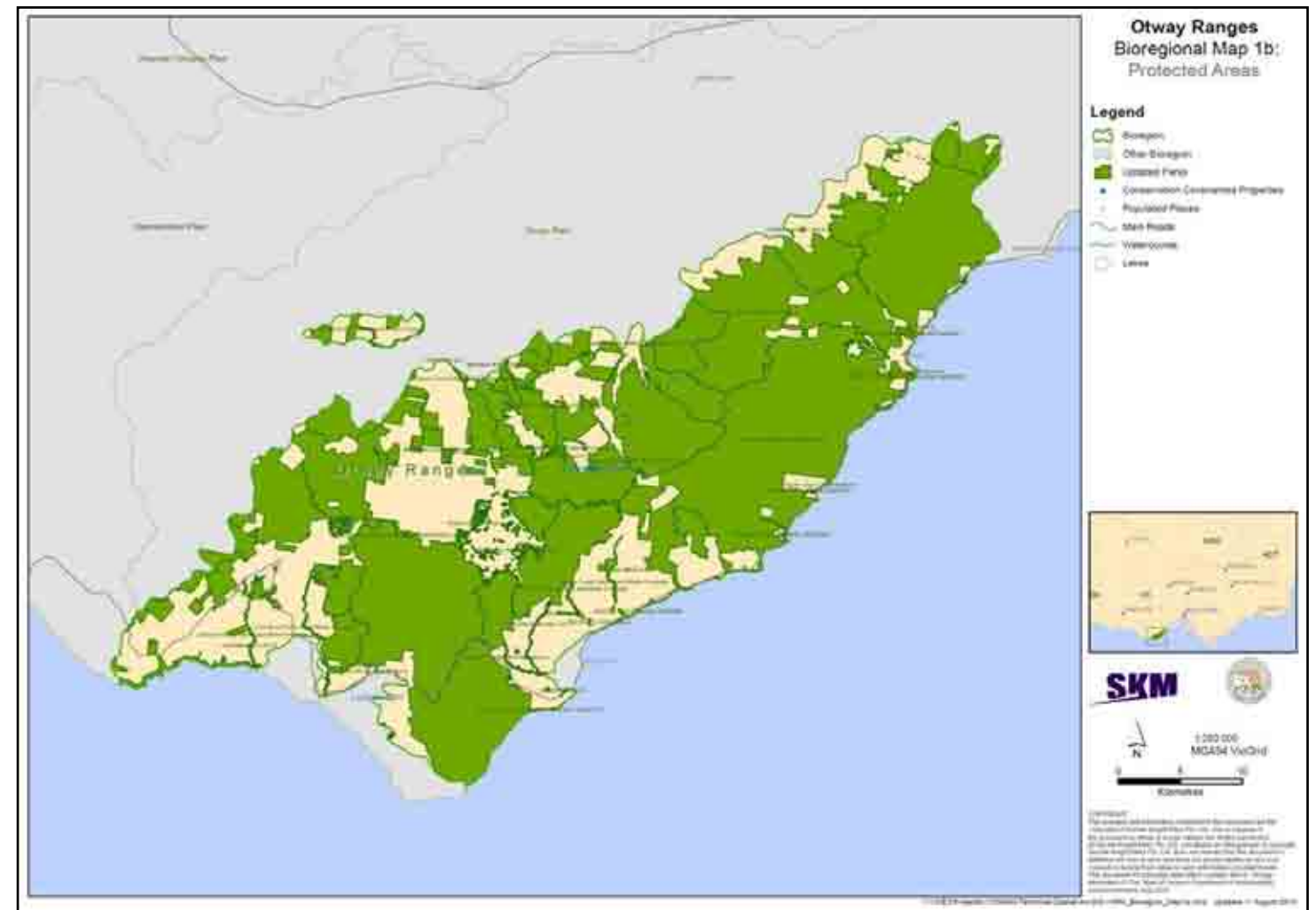
Bioregion size: 149 755 ha
 Native vegetation cover: 125 376 ha (84%)
 Conservation reserve cover (excludes State Forests): 74 764 ha (60%)

Areas of native vegetation located on non-conservation public land, available for further conservation, are dominated by EVCs from the Wet or Damp Forest and Dry Forest EVC groups and make up approximately 15% of the Bioregion. No significant areas of Endangered EVCs are available for conservation. The Bioregion would benefit from increased conservation protection for the available areas, as well as increasing connectivity between smaller remnant patches and core conservation areas by increasing the Riparian vegetation under protection.

The Otway Ranges (OtR) Bioregion covers approximately 149 755 ha of south-western Victoria, running along the coast from east of Lorne, to west of Lavers Hill, through Forrest and Beech Forest to Gellibrand Lower, with outliers of the Otway Plain at Apollo Bay and west of Cape Otway. OtR has an outlier along the Gellibrand River, west of Gellibrand. The Otway Ranges are also classified in the Interim Bioregionalisation of Australia (IBRA) as sub-region SEH3. The Bioregion is typified by moderate to steep slopes with a mix of soil types. Upper slopes are dominated by Wet Forest, Shrubby Wet Forest and Cool Temperate Rainforests, with Shrubby Foothill Forest on the lower slopes. The Bioregion is under the jurisdiction of the Corangamite Catchment Management Authority (CMA), which is proposed to be merged with neighbouring authorities, forming the Western Districts Natural Resources and Catchment Authority (NRCA) in 2011.

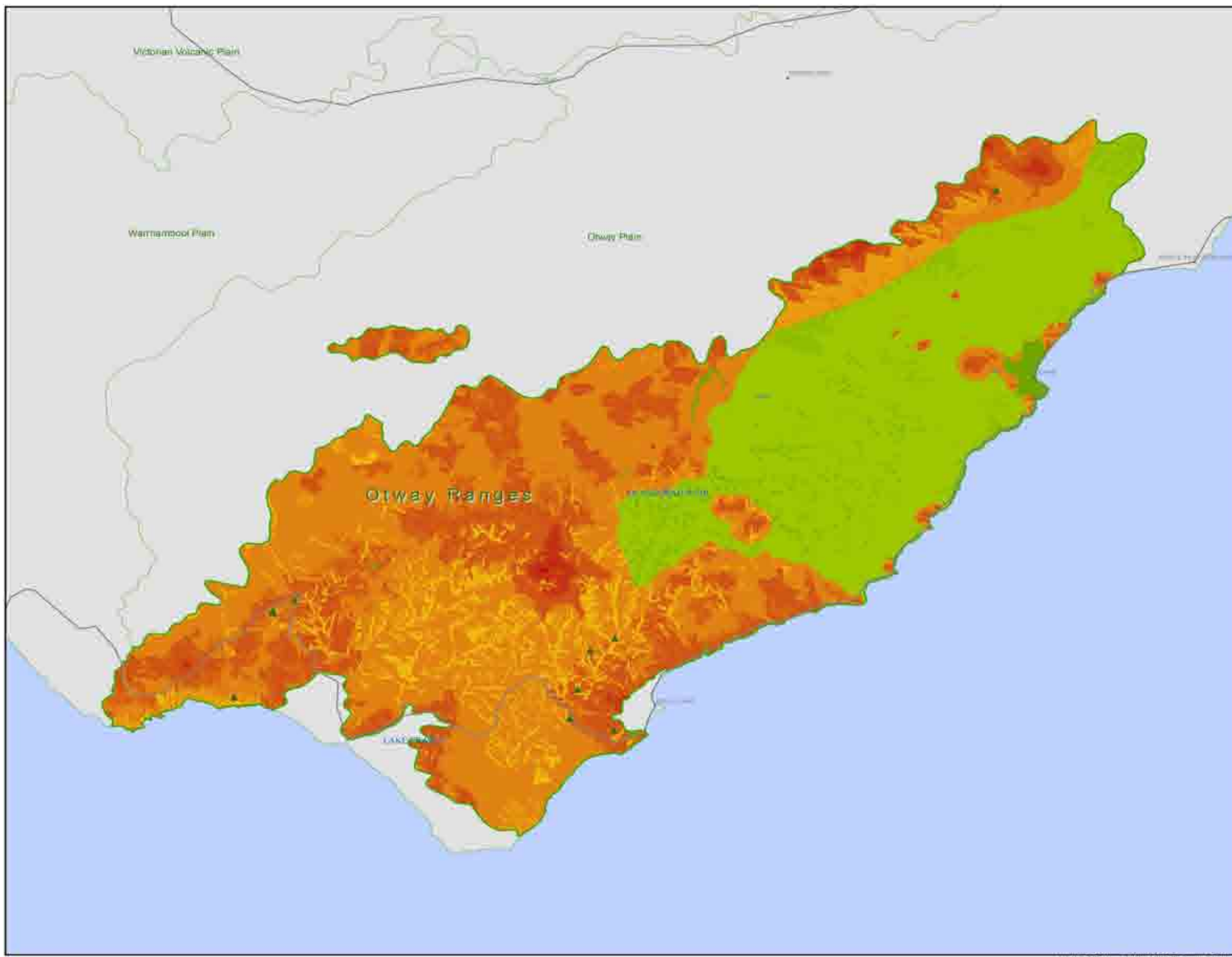


■ Figure 26-1 EVC Group Breakdown



■ Figure 26-2 Protected Areas – Otway Ranges

There are no Ramsar sites in the Bioregion. Approximately 84% of the pre-European native vegetation extent remains, with 60% protected in Crown land for conservation, including the large reserves of the Great Otway National Park and the Otway Forest Park. There are 26 published Ecological Vegetation Classes (EVCs) in the Bioregion, although only eight (8) of these have a Conservation Status of Endangered. Logging of native forest on public land has historically been the major threat to biodiversity in the Bioregion, although this has been illegal since it was phased out between 2002 and 2008. The Bioregion provides habitat for many Commonwealth Environment Protection and Biodiversity Conservation (EPBC) Act listed species, such as the Tall Astelia (*Astelia australiana*), Australian Grayling (*Prototroctes maraena*), Spot-tailed Quoll (*Dasyurus maculatus*), Koonoom (*Pseudomys fumeus*), and Long-nosed Potoroo (*Potorus tridactylus*). The Victorian Flora and Fauna Guarantee (FFG) Act lists 'human activity leading to elevated or epidemic levels of Myrtle Wilt within Nothofagus-dominated [Endangered] Cool Temperate Rainforest' as a threatening process, a community which is itself listed under the FFG Act. Due to the removal of logging from public land, and the high level of conservation protection of remnant native vegetation in the Bioregion, inappropriate fire regimes, particularly when combined with a year-round reduced rainfall climate-change scenario, are likely to be the major threat to biodiversity into the future.



**Otway Ranges
Bioregional Map 1a:
Landscape Priorities**

Legend

- Bioregion
- Other Bioregion
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes

Landscape Importance

High : 20
Low : 1



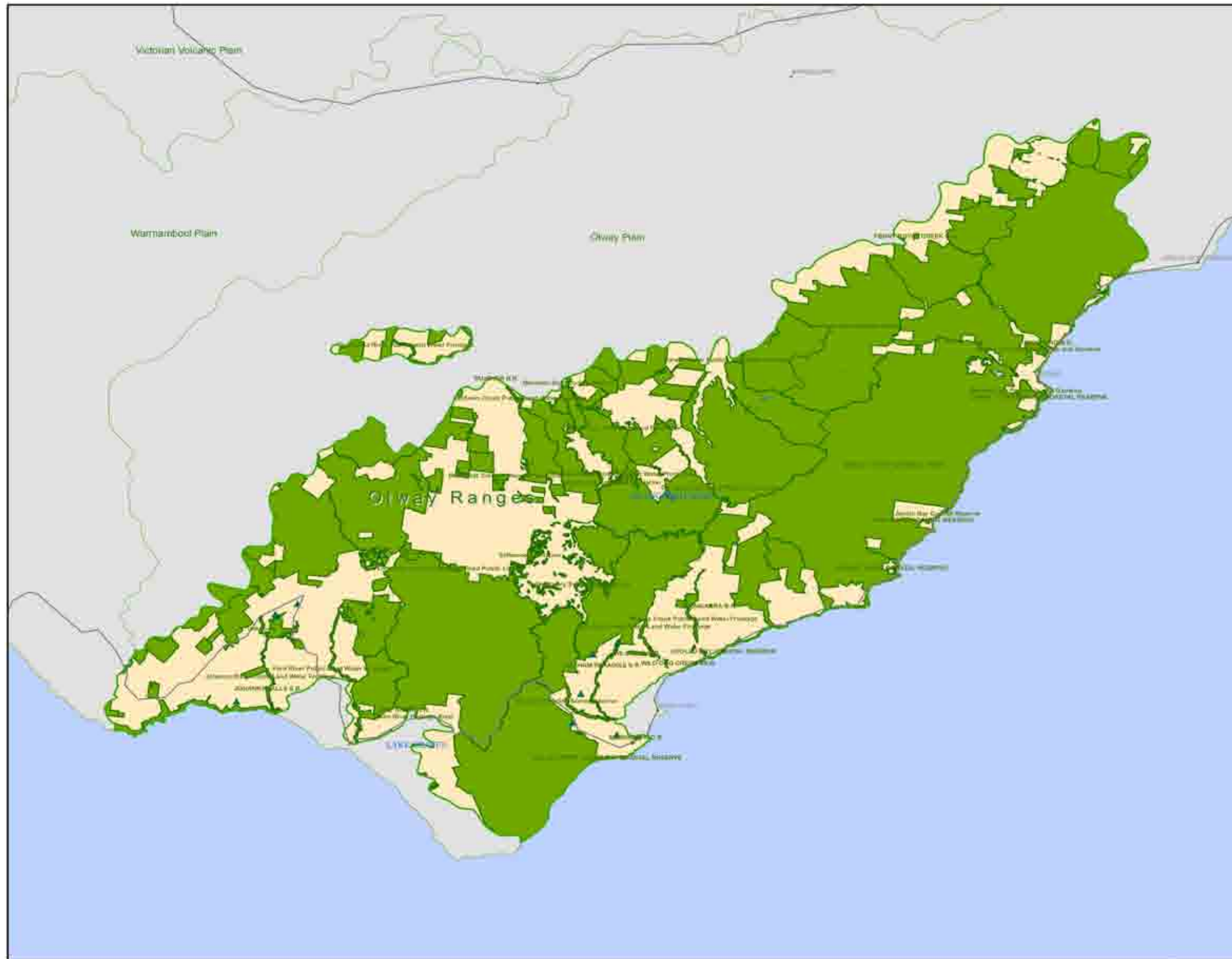
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**Otway Ranges
Bioregional Map 1b:
Protected Areas**

Legend

- Bioregion
- Other Bioregion
- Updated Parks
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes



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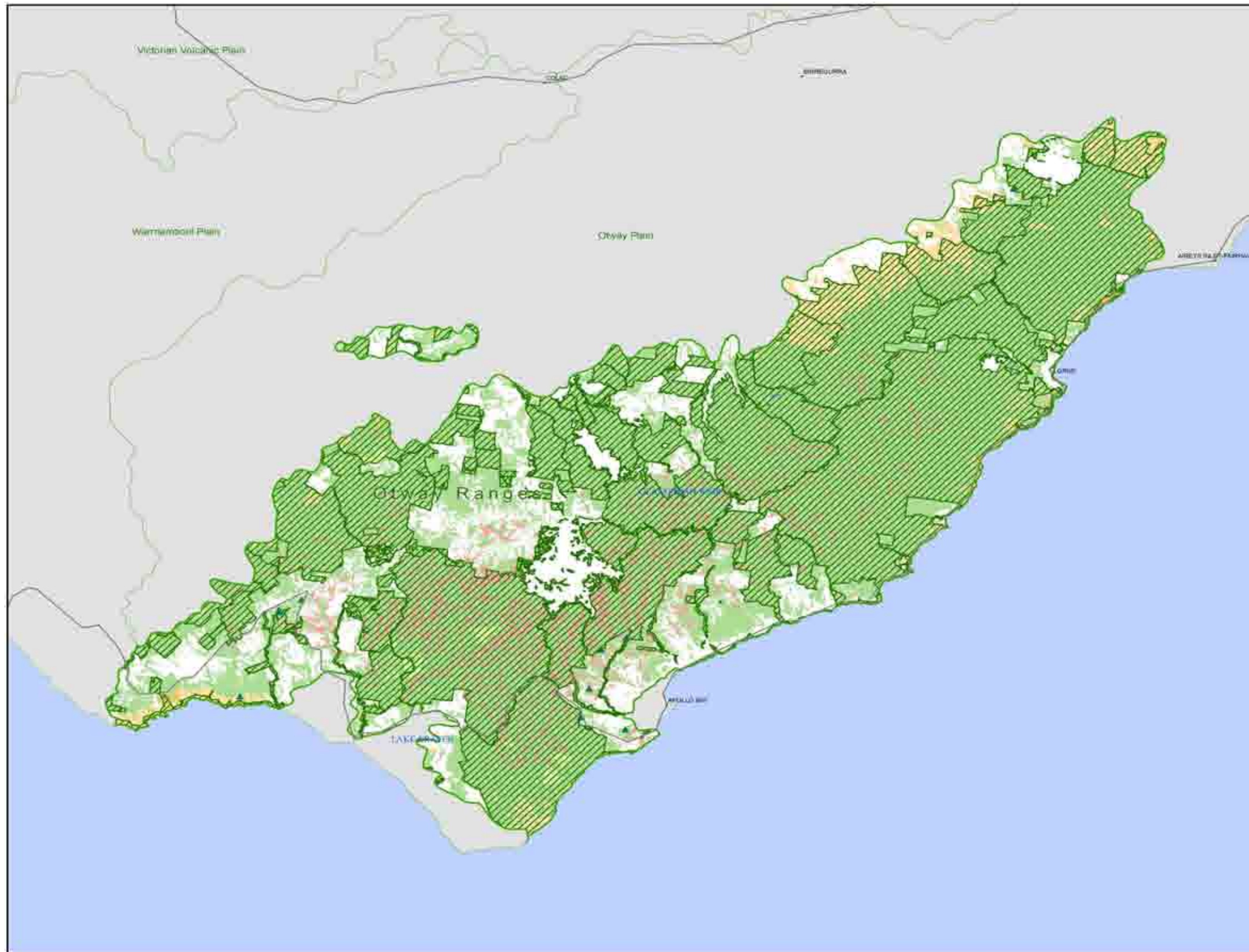
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Otway Ranges Bioregional Map 2a: Vegetation Conservation Significance

Legend

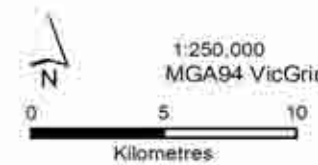
- Bioregion
- Other Bioregion
- Updated Parks
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes

EVC Bioregional Conservation Status

- Endangered
- Vulnerable
- Depleted
- Rare
- Least Concern



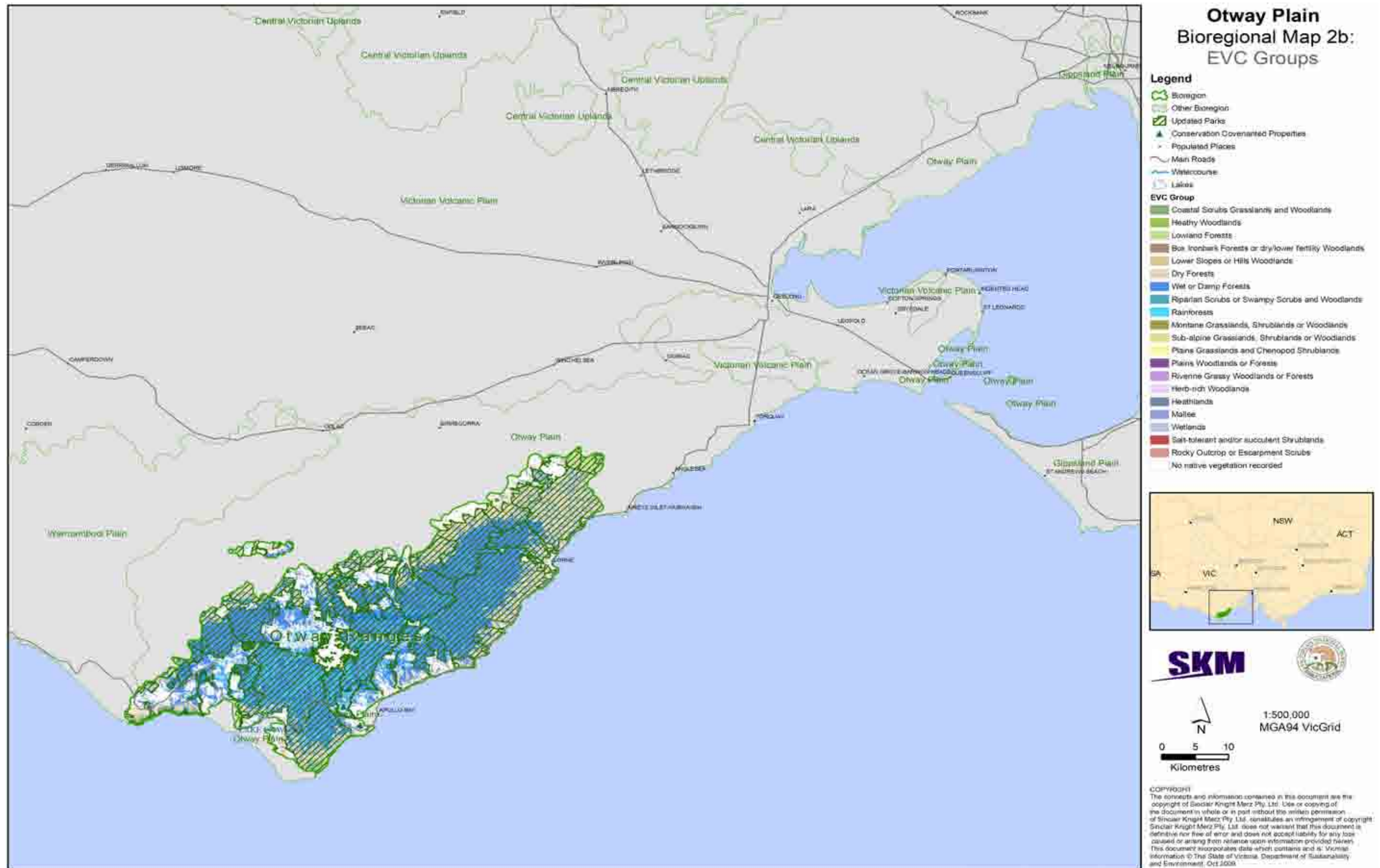
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Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Otway Ranges	1	Coastal Dune Scrub/Coastal Dune Grassland Mosaic	1	Coastal Scrubs Grasslands and Woodlands	Depleted	88	43	0	43	0	0	43	0	5	48	54.7	89.4	48.9
Otway Ranges	3	Damp Sands Herb-rich Woodland	15	Herb-rich Woodlands	Vulnerable	430	218	0	218	0	0	218	0	144	362	84.3	60.3	50.8
Otway Ranges	8	Wet Heathland	16	Heathlands	Least Concern	198	156	0	156	9	0	156	0	19	185	93.5	84.7	79.2
Otway Ranges	10	Estuarine Wetland	18	Wetlands	Endangered	3	2	0	2	0	0	2	0	2	4	133.8	49.7	66.5
Otway Ranges	16	Lowland Forest	3	Lowland Forests	Depleted	2292	1235	0	1235	500	0	1235	0	368	2103	91.8	58.7	53.9
Otway Ranges	17	Riparian Scrub/Swampy Riparian Woodland Complex	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	119	96	0	96	0	0	96	0	13	109	92.0	87.8	80.8
Otway Ranges	18	Riparian Forest	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	2983	1096	0	1096	1033	0	1096	0	530	2660	89.2	41.2	36.8
Otway Ranges	21	Shrubby Dry Forest	6	Dry Forests	Least Concern	1019	983	0	983	14	0	983	0	21	1018	100.0	96.6	96.5
Otway Ranges	22	Grassy Dry Forest	6	Dry Forests	Depleted	291	178	0	178	37	0	178	0	63	278	95.4	64.1	61.2
Otway Ranges	23	Herb-rich Foothill Forest	6	Dry Forests	Depleted	236	115	0	115	10	0	115	0	52	177	74.9	65.1	48.8
Otway Ranges	30	Wet Forest	7	Wet or Damp Forests	Least Concern	50927	28234	81	28315	5222	0	28234	0	8568	42106	82.7	67.2	55.6
Otway Ranges	31	Cool Temperate Rainforest	9	Rainforests	Endangered	10175	6509	3	6512	840	0	6509	0	1658	9010	88.5	72.3	64.0
Otway Ranges	45	Shrubby Foothill Forest	6	Dry Forests	Least Concern	33762	15655	1	15656	5262	0	15655	0	6527	27445	81.3	57.0	46.4
Otway Ranges	48	Heathy Woodland	2	Heathy Woodlands	Least Concern	414	338	0	338	33	0	338	0	40	412	99.5	82.1	81.7
Otway Ranges	53	Swamp Scrub	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	217	4	0	4	21	0	4	0	53	78	36.1	5.1	1.8
Otway Ranges	83	Swampy Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	8	0	0	0	2	0	0	0	1	3	35.9	0.0	0.0
Otway Ranges	128	Grassy Forest	6	Dry Forests	Endangered	6	0	0	0	0	0	0	3	0	3	48.6	0.0	0.0
Otway Ranges	161	Coastal Headland Scrub	1	Coastal Scrubs Grasslands and Woodlands	Depleted	1820	862	0	862	2	0	862	0	587	1451	79.7	59.4	47.4
Otway Ranges	163	Coastal Tussock Grassland	1	Coastal Scrubs Grasslands and Woodlands	Vulnerable	62	40	0	40	0	0	40	0	16	56	90.5	70.8	64.0
Otway Ranges	165	Damp Heath Scrub	16	Heathlands	Endangered	66	4	0	4	0	0	4	0	23	27	41.0	15.9	6.5
Otway Ranges	175	Grassy Woodland	5	Lower Slopes or Hills Woodlands	Endangered	6	0	0	0	0	0	0	0	0	0	0.8	0.0	0.0
Otway Ranges	178	Herb-rich Foothill Forest/Shrubby Foothill Forest Complex	6	Dry Forests	Depleted	5901	1437	0	1437	1909	0	1437	0	850	4196	71.1	34.3	24.4
Otway Ranges	198	Sedgy Riparian Woodland	14	Riverine Grassy Woodlands or Forests	Vulnerable	93	42	0	42	3	0	42	0	36	81	87.1	51.6	44.9
Otway Ranges	201	Shrubby Wet Forest	7	Wet or Damp Forests	Least Concern	37882	16884	91	16975	9090	0	16884	0	6650	32715	86.4	51.9	44.8
Otway Ranges	233	Wet Sands Thicket	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Rare	847	628	0	628	194	0	628	0	23	844	99.7	74.4	74.2
Otway Ranges	863	Floodplain Reedbed	14	Riverine Grassy Woodlands or Forests	Endangered	5	3	0	3	0	0	3	0	2	5	100.3	61.9	62.1
Otway Ranges	894	Scoria Cone Woodland	5	Lower Slopes or Hills Woodlands	Endangered	1	1	0	1	0	0	1	0	0	1	100.0	100.0	100.0
Total						149,847	74,764	176	74,941	24,182	0	74,764	3	26,251	125,376	83.7%	59.6%	49.9%

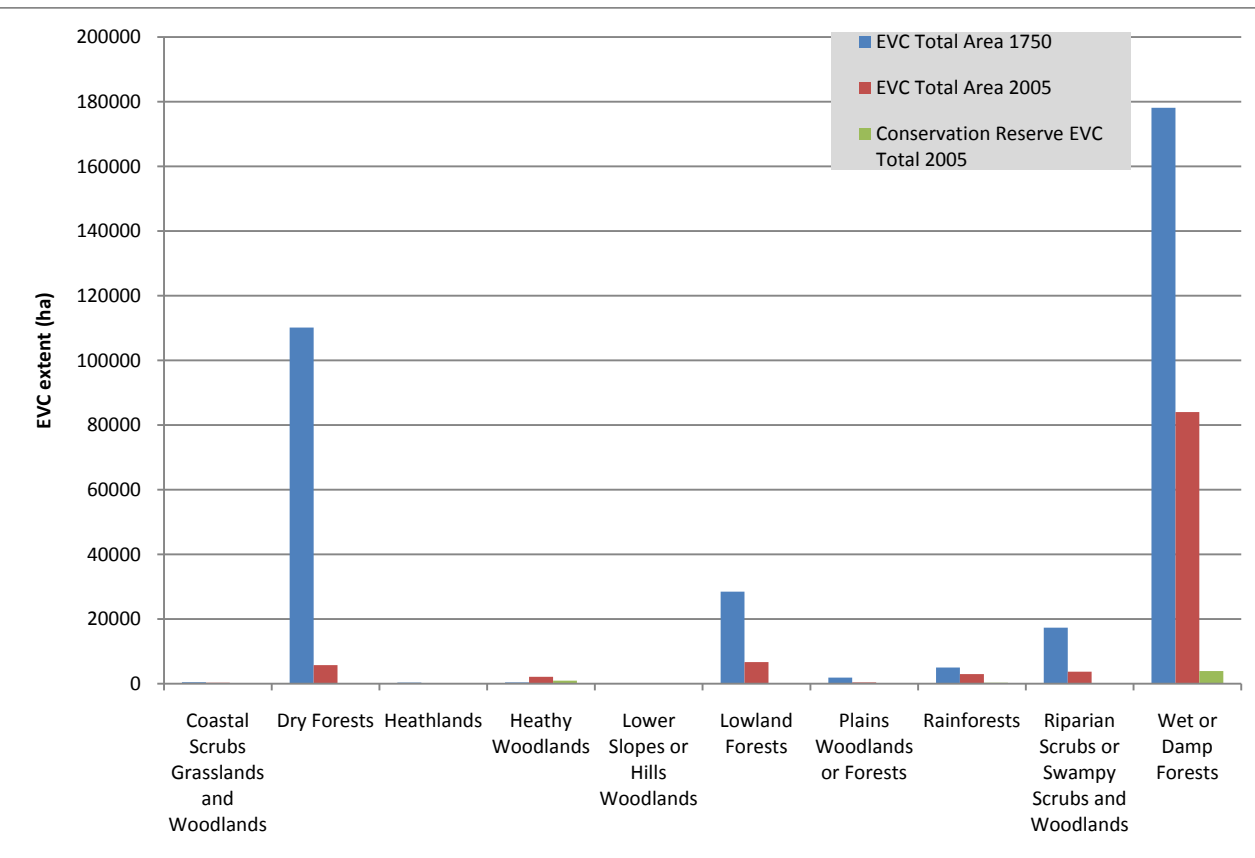


27. Strzelecki Ranges

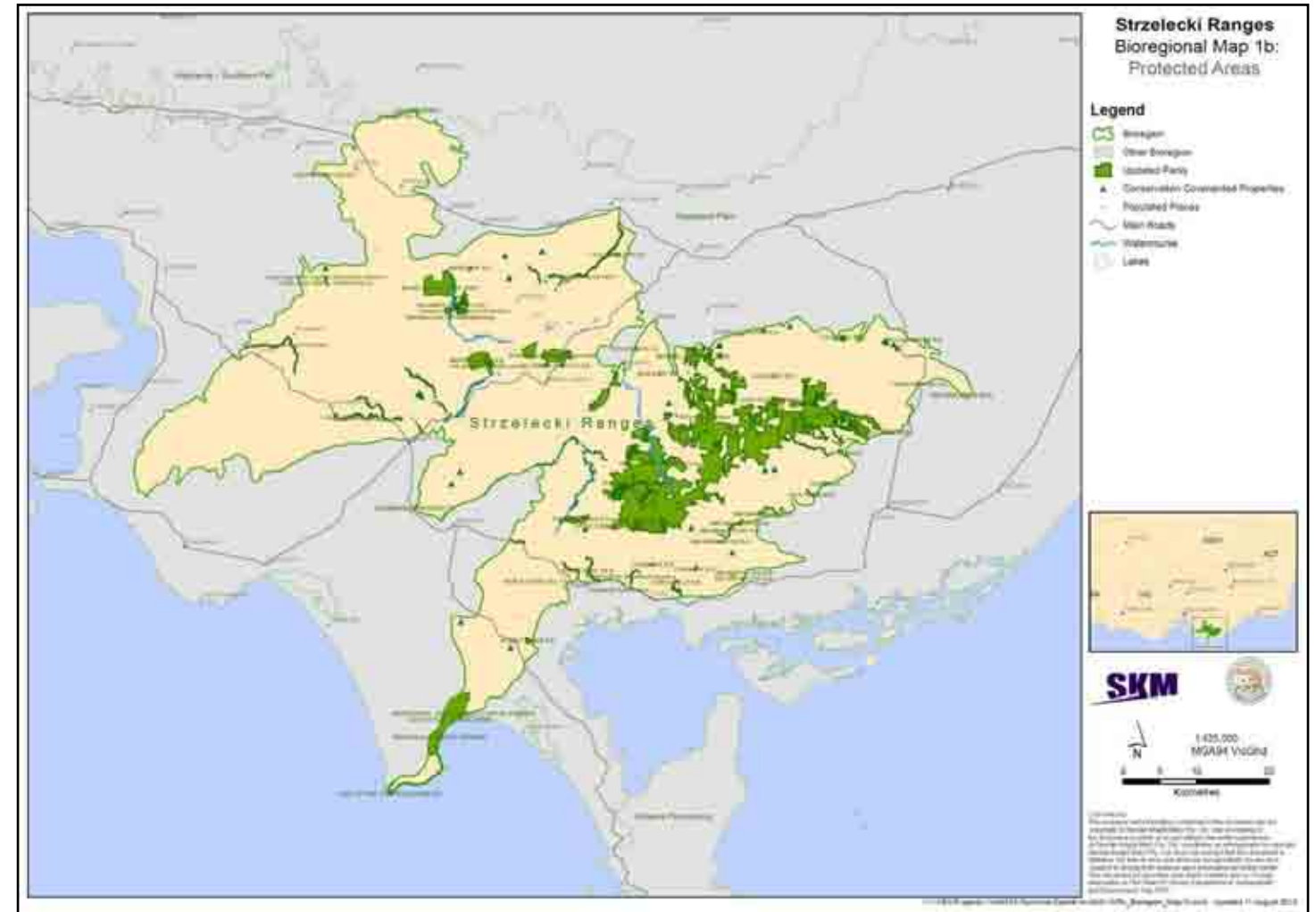
Bioregion size: 342 179 ha
 Native vegetation cover: 106 171 ha (31%)
 Conservation reserve cover (excludes State Forests): 5 858 ha (6%)

Approximately 10% of the Bioregion is native vegetation located on non-conservation public land. Given the small percentage of protected native vegetation, priority should be given to increasing the percentage of vegetation under protection. EVCs representing the Wet or Damp Forests EVC group make up the bulk of vegetation on public land available. Woodlands in the Bioregion's west supporting the EPBC listed Strzelecki Gum should also be protected.

The Strzelecki Ranges (Strz) Bioregion splits the Gippsland Plain south of the Latrobe River, in the ranges running between Drouin, Leongatha, and Foster. The Bioregion covers approximately 342 179 ha in total. Strz is also classified in the Interim Bioregionalisation of Australia (IBRA) as sub-region SEH4. The Bioregion is typified by moderate to steep slopes with a mix of soil types dominated by Wet or Damp Forests on steeper slopes, with Dry Forests below. The Bioregion is mostly under the jurisdiction of the West Gippsland Catchment Management Authority (CMA), with the westernmost section managed by the Port Phillip and Westernport CMA, which will become part of the larger Gippsland Natural Resources and Catchment Authority (NRCA) and Melbourne Water and Catchment Authority, respectively, in the planned 2011 mergers.

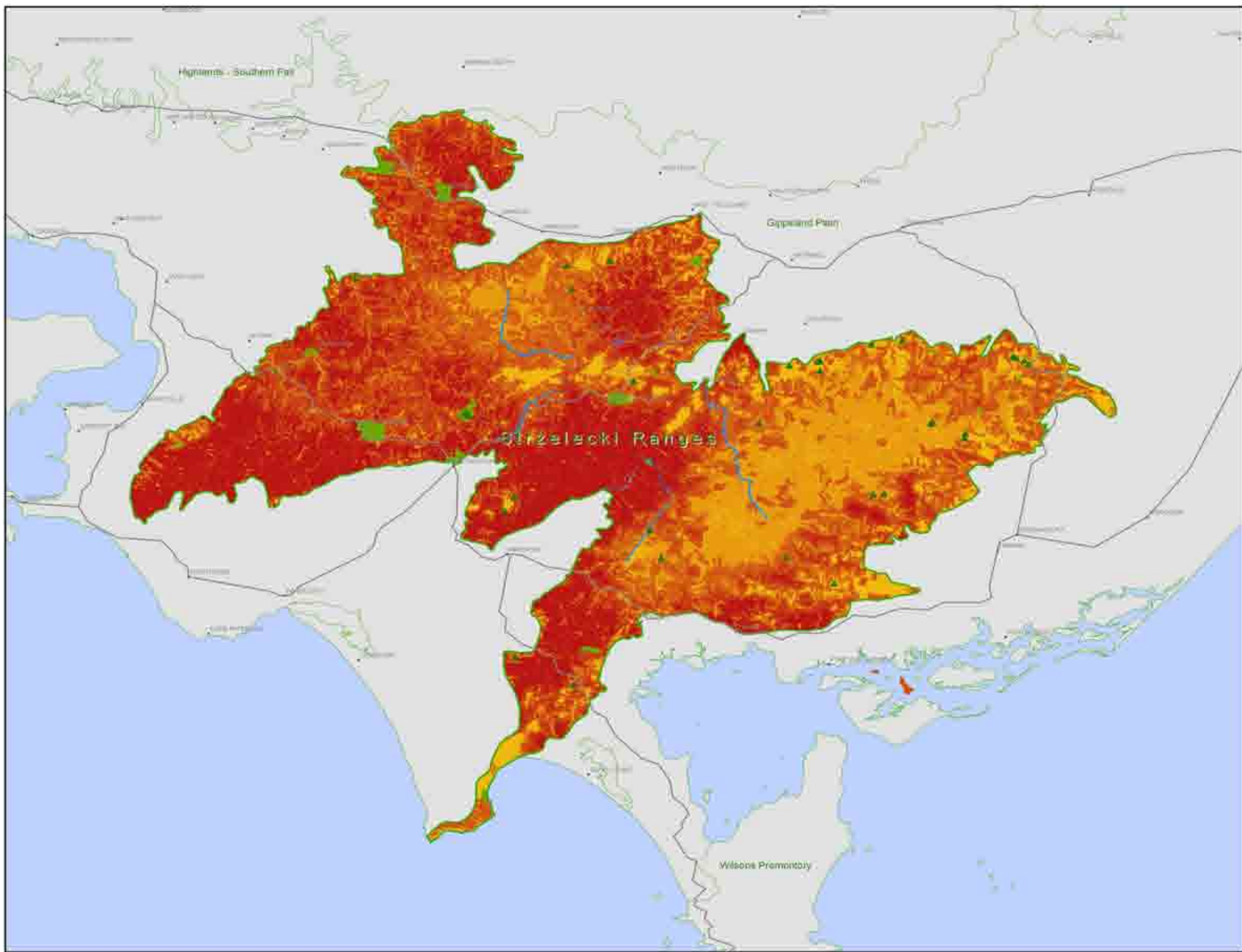


■ Figure 27-1 EVC Group Breakdown



■ Figure 27-2 Protected Areas – Strzelecki Ranges

There are no Ramsar sites in the Bioregion, although it is within the catchments of both the Corner Inlet and Westernport Ramsar sites. Almost 70% of the pre-European native vegetation has been removed, and the Strzelecki Ranges is under represented in the Crown Conservation Reserve network, with less than 6% of remaining remnant native vegetation protected. The major reserve within the Bioregion is the Tarra-bulga National Park, south of Morwell. There are 28 published Ecological Vegetation Classes (EVCs) in the Bioregion, 15 of which are Endangered. Despite the presence of many Commonwealth Environment Protection and Biodiversity Conservation (EPBC) Act listed species, such as the Spot-tailed Quoll (*Dasyuris maculatus*) and Long-footed Potoroo (*Potorus tridactylus*), logging of unprotected areas remains the major threat to biodiversity. While thought to have been cleared for logging in the eastern part of the Bioregion, the western end still supports the EPBC Act listed Strzelecki Gums (*Eucalyptus strzeleckii*), although predominately on roadsides and private land, with limited recruitment observed in recent times. The Victorian Flora and Fauna Guarantee (FFG) Act lists 'human activity leading to elevated or epidemic levels of Myrtle Wilt within Nothofagus-dominated [Endangered] Cool Temperate Rainforest' as a threatening process. The Cool Temperate Rainforest Community is also listed as threatened under the FFG Act.



**Strzelecki Ranges
Bioregional Map 1a:
Landscape Priorities**

Legend

- Bioregion
- Other Bioregion
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes

Landscape Importance

High : 20
Low : 1

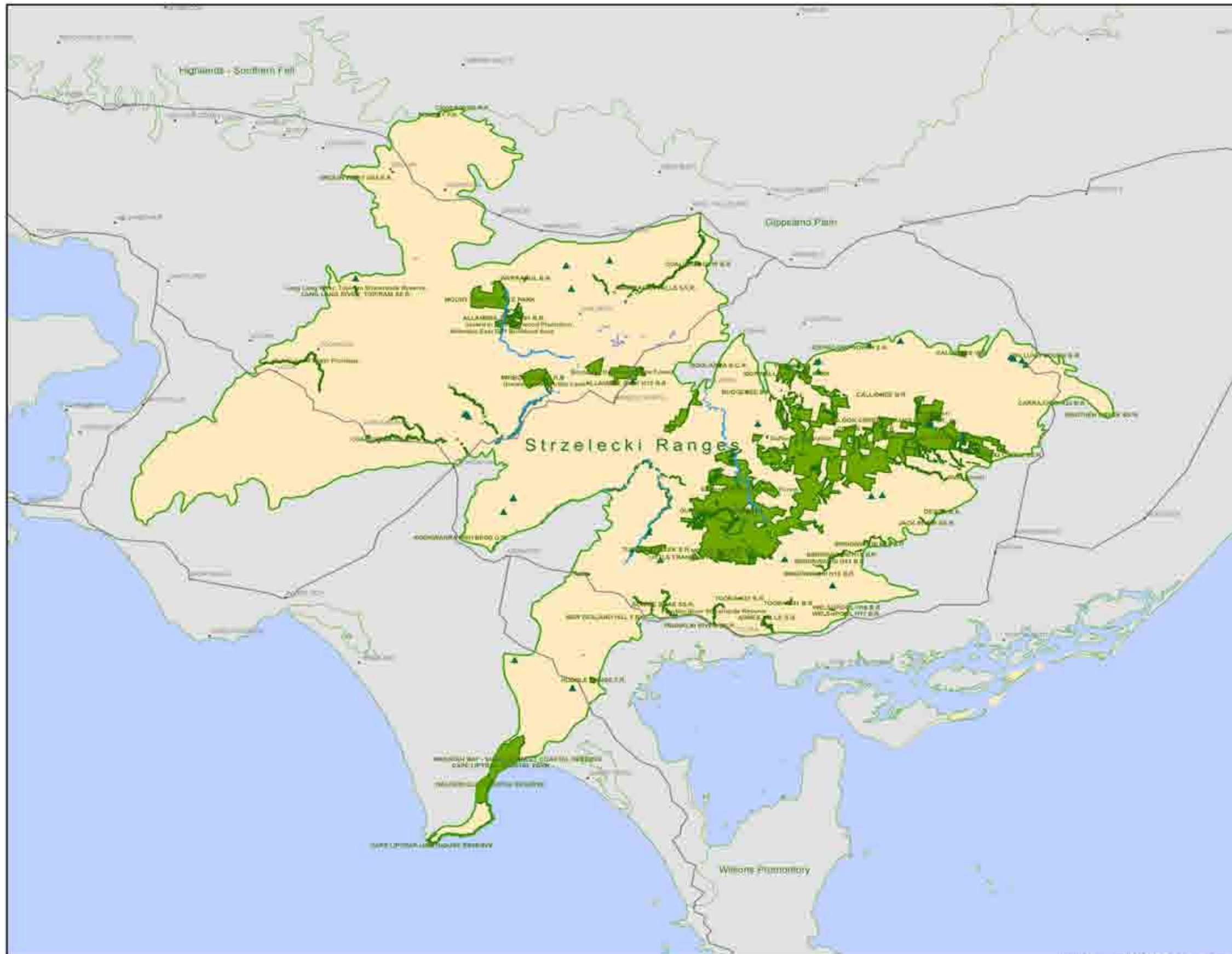


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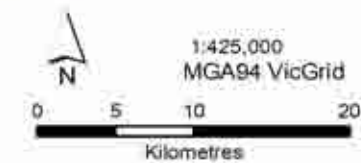
**Strzelecki Ranges
Bioregional Map 1b:
Protected Areas**

Legend

- Bioregion
- Other Bioregion
- Updated Parks
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes



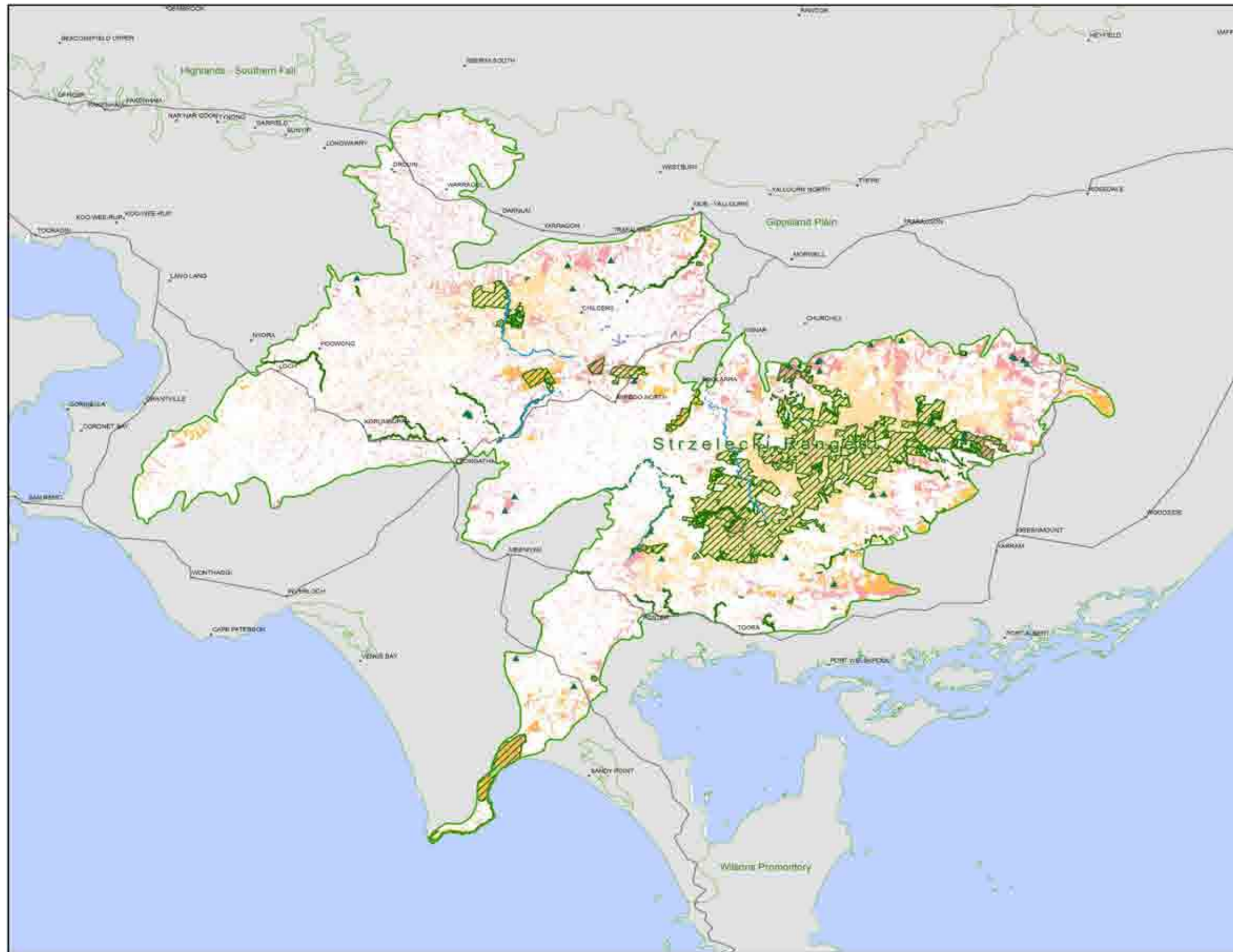
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**Strzelecki Ranges
Bioregional Map 2a:
Vegetation Conservation
Significance**

Legend

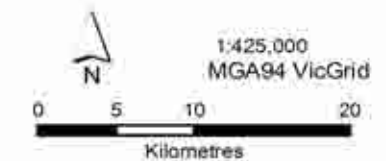
- Bioregion
- Other Bioregion
- Updated Parks
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes

EVC Bioregional Conservation Status

- Endangered
- Vulnerable
- Depleted
- Rare
- Least Concern



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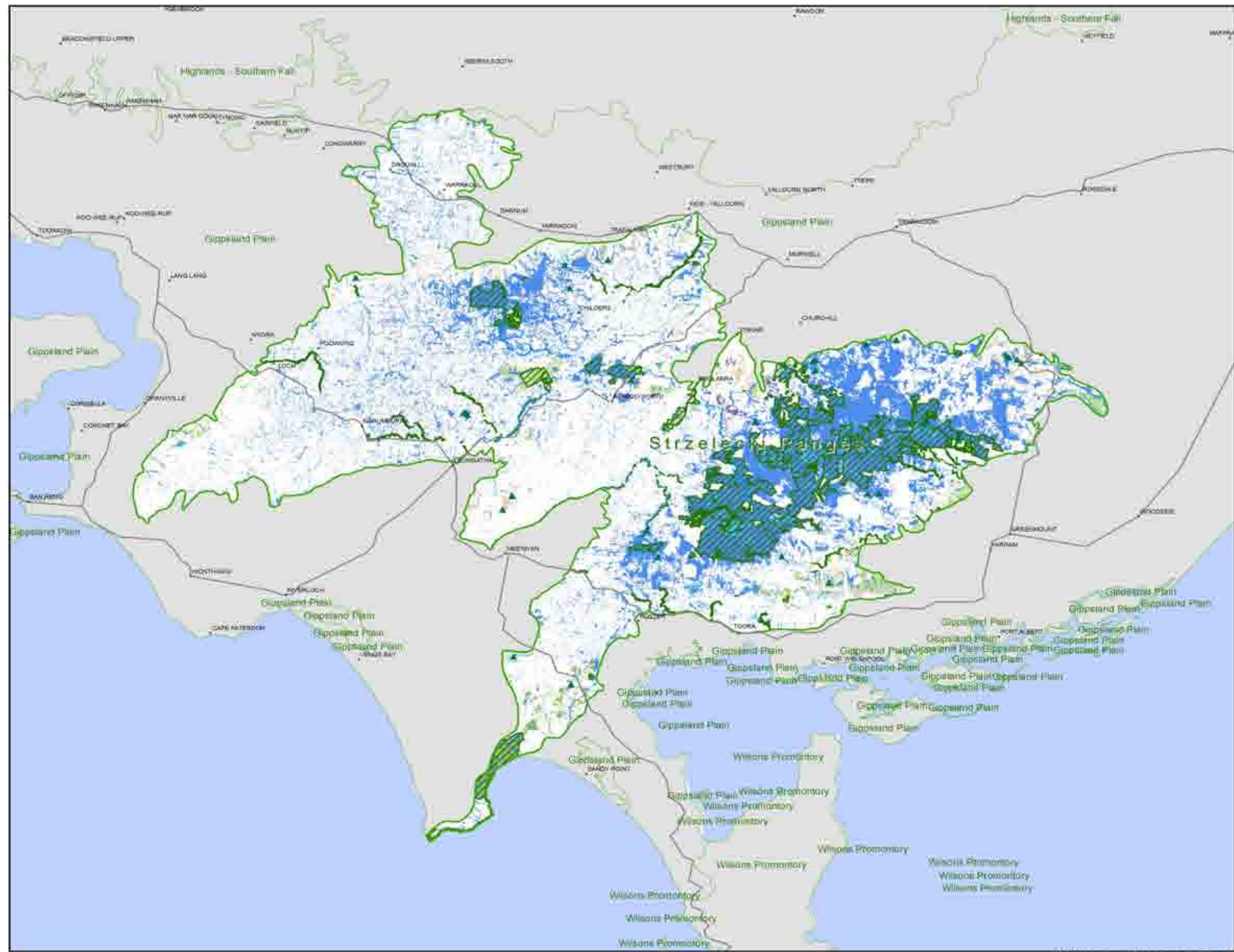
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Terrestrial Biodiversity Review

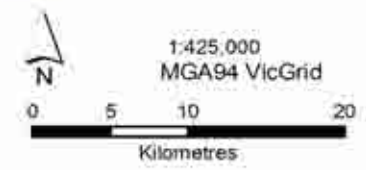


**Strzelecki Ranges
Bioregional Map 2b:
EVC Groups**

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- EVC Group**
- Coastal Scrubs, Grasslands and Woodlands
 - Healthy Woodlands
 - Lowland Forests
 - Box Ironbark Forests or dry/lower fertility Woodlands
 - Lower Slopes or Hills Woodlands
 - Dry Forests
 - Wet or Damp Forests
 - Riparian Scrubs or Swampy Scrubs and Woodlands
 - Rainforests
 - Montane Grasslands, Shrublands or Woodlands
 - Sub-alpine Grasslands, Shrublands or Woodlands
 - Plains Grasslands and Cheopod Shrublands
 - Plains Woodlands or Forests
 - Riverine Grassy Woodlands or Forests
 - Herb-rich Woodlands
 - Heathlands
 - Mallee
 - Wetlands
 - Salt-tolerant and/or succulent Shrublands
 - Rocky Outcrop or Escarpment Scrubs
 - No native vegetation recorded



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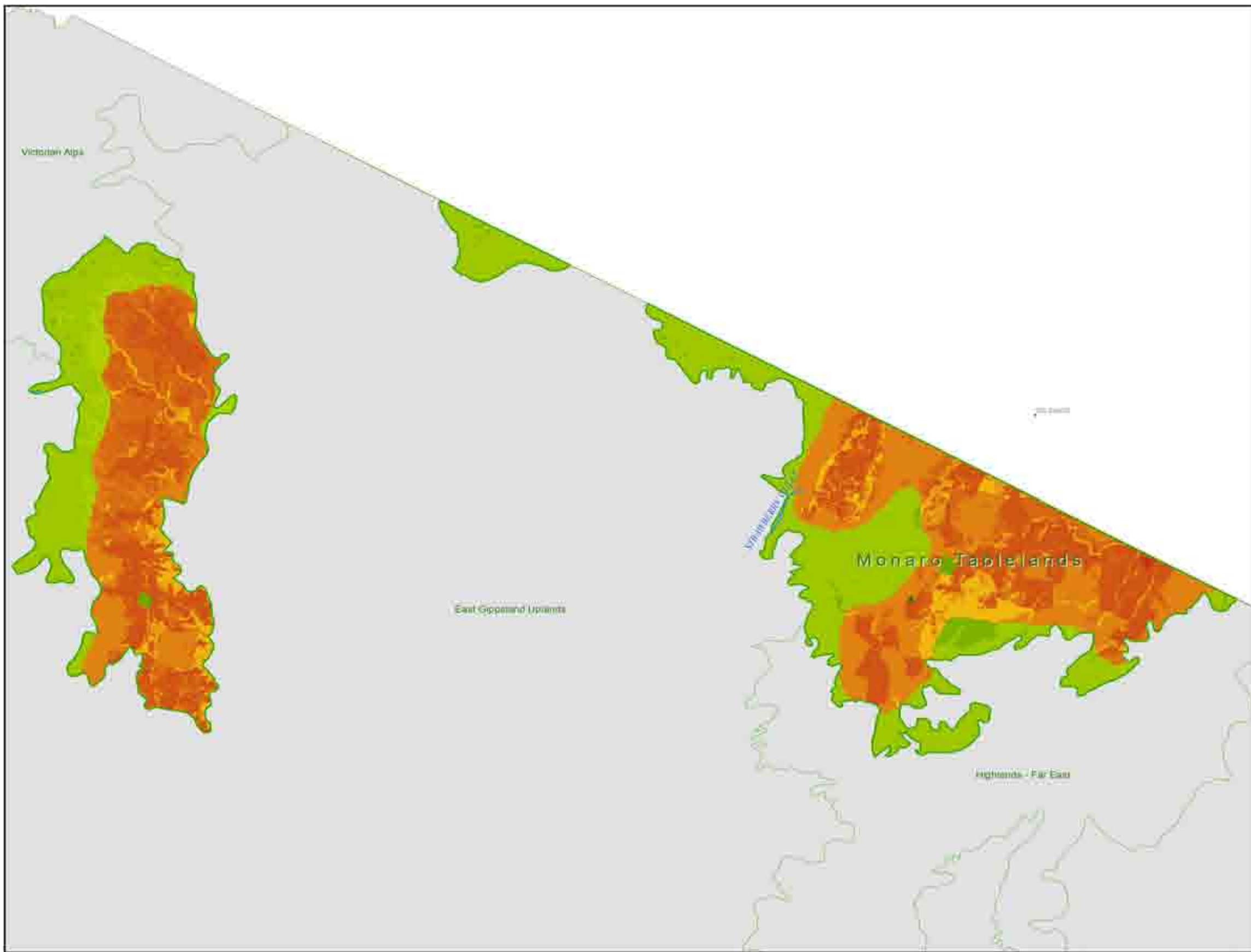
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Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Strz Ranges	2	Coast Banksia Woodland	1	Coastal Scrubs Grasslands and Woodlands	Vulnerable	130	57	0	57	0	0	57	0	12	69	53.1	83.0	44.1
Strz Ranges	8	Wet Heathland	16	Heathlands	Vulnerable	259	111	0	111	0	0	111	0	21	132	51.0	83.8	42.7
Strz Ranges	16	Lowland Forest	3	Lowland Forests	Vulnerable	28456	52	1200	1252	974	0	52	0	4455	6682	23.5	18.7	4.4
Strz Ranges	18	Riparian Forest	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	694	7	0	7	152	0	7	0	123	282	40.6	2.6	1.1
Strz Ranges	23	Herb-rich Foothill Forest	6	Dry Forests	Endangered	9895	216	413	629	64	0	216	0	1873	2566	25.9	24.5	6.4
Strz Ranges	29	Damp Forest	7	Wet or Damp Forests	Endangered	92858	707	1527	2235	2181	0	707	0	20740	25156	27.1	8.9	2.4
Strz Ranges	30	Wet Forest	7	Wet or Damp Forests	Depleted	85266	3218	15396	18614	11572	0	3218	0	28688	58874	69.0	31.6	21.8
Strz Ranges	31	Cool Temperate Rainforest	9	Rainforests	Endangered	1891	244	832	1075	490	0	244	0	269	1834	97.0	58.6	56.9
Strz Ranges	32	Warm Temperate Rainforest	9	Rainforests	Endangered	3132	50	116	167	205	0	50	0	752	1124	35.9	14.9	5.3
Strz Ranges	45	Shrubby Foothill Forest	6	Dry Forests	Endangered	99968	6	184	191	142	0	6	0	2828	3162	3.2	6.0	0.2
Strz Ranges	48	Heathy Woodland	2	Heathy Woodlands	Depleted	380	5	6	12	0	0	5	0	69	81	21.3	14.6	3.1
Strz Ranges	53	Swamp Scrub	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	2428	1	13	14	57	0	1	0	327	398	16.4	3.4	0.6
Strz Ranges	55	Plains Grassy Woodland	13	Plains Woodlands or Forests	Endangered	258	0	0	0	0	0	0	53	0	53	20.6	0.0	0.0
Strz Ranges	83	Swampy Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	2809	28	0	28	310	0	28	0	222	560	19.9	5.0	1.0
Strz Ranges	123	Riparian Forest/Warm Temperate Rainforest Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	1936	15	0	15	302	0	15	0	221	537	27.8	2.8	0.8
Strz Ranges	126	Swampy Riparian Complex	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	9104	2	0	2	75	0	2	0	1507	1584	17.4	0.1	0.0
Strz Ranges	128	Grassy Forest	6	Dry Forests	Endangered	304	0	0	0	0	0	0	0	15	15	4.8	0.0	0.0
Strz Ranges	151	Plains Grassy Forest	13	Plains Woodlands or Forests	Endangered	1639	2	42	44	19	0	2	0	288	351	21.4	12.5	2.7
Strz Ranges	161	Coastal Headland Scrub	1	Coastal Scrubs Grasslands and Woodlands	Vulnerable	331	123	0	123	0	0	123	0	94	217	65.5	56.7	37.1
Strz Ranges	163	Coastal Tussock Grassland	1	Coastal Scrubs Grasslands and Woodlands	Depleted	6	5	0	5	0	0	5	0	0	5	91.5	99.4	91.0
Strz Ranges	175	Grassy Woodland	5	Lower Slopes or Hills Woodlands		1	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Strz Ranges	191	Riparian Scrub	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	112	2	51	53	21	0	2	0	229	303	270.2	17.5	47.3
Strz Ranges	233	Wet Sands Thicket	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Rare	65	0	41	41	0	0	0	0	17	58	88.5	71.5	63.3
Strz Ranges	307	Sand Heathland/Wet Heathland Mosaic	16	Heathlands	Least Concern	85	79	0	79	0	0	79	0	5	84	98.8	94.2	93.1
Strz Ranges	639	Swamp Scrub/Plains Grassy Forest Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	126	0	1	1	1	0	0	0	3	5	4.1	14.0	0.6
Strz Ranges	687	Swamp Scrub/Plains Grassland Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	16	0	0	0	0	0	0	0	0	0	1.4	0.0	0.0
Strz Ranges	688	Swampy Riparian Woodland/Swamp Scrub Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	31	1	0	1	0	0	1	0	2	2	8.1	28.1	2.3
Strz Ranges	793	Damp Heathy Woodland	2	Heathy Woodlands	Depleted	0	3	0	3	0	0	3	0	100	103	0.0	3.4	0.0
Strz Ranges	793	Damp Heathy Woodland	2	Heathy Woodlands		1	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Strz Ranges	937	Swampy Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Endangered	18	0	0	0	0	0	0	6	0	6	34.3	0.0	0.0
Strz Ranges	1106	Damp Heathy Woodland/Lowland Forest Mosaic	2	Heathy Woodlands	Vulnerable	0	924	0	924	5	0	924	0	998	1927	0.0	47.9	0.0
Total						342,199	5,858	19,824	25,683	16,570	0	5,858	60	63,859	106,171	31.0%	5.5%	1.7%

Monaro Tablelands Bioregional Map 1a: Landscape Priorities



- Legend**
- Bioregion
 - Other Bioregion
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- Landscape Importance**
- High : 20
 - Low : 1



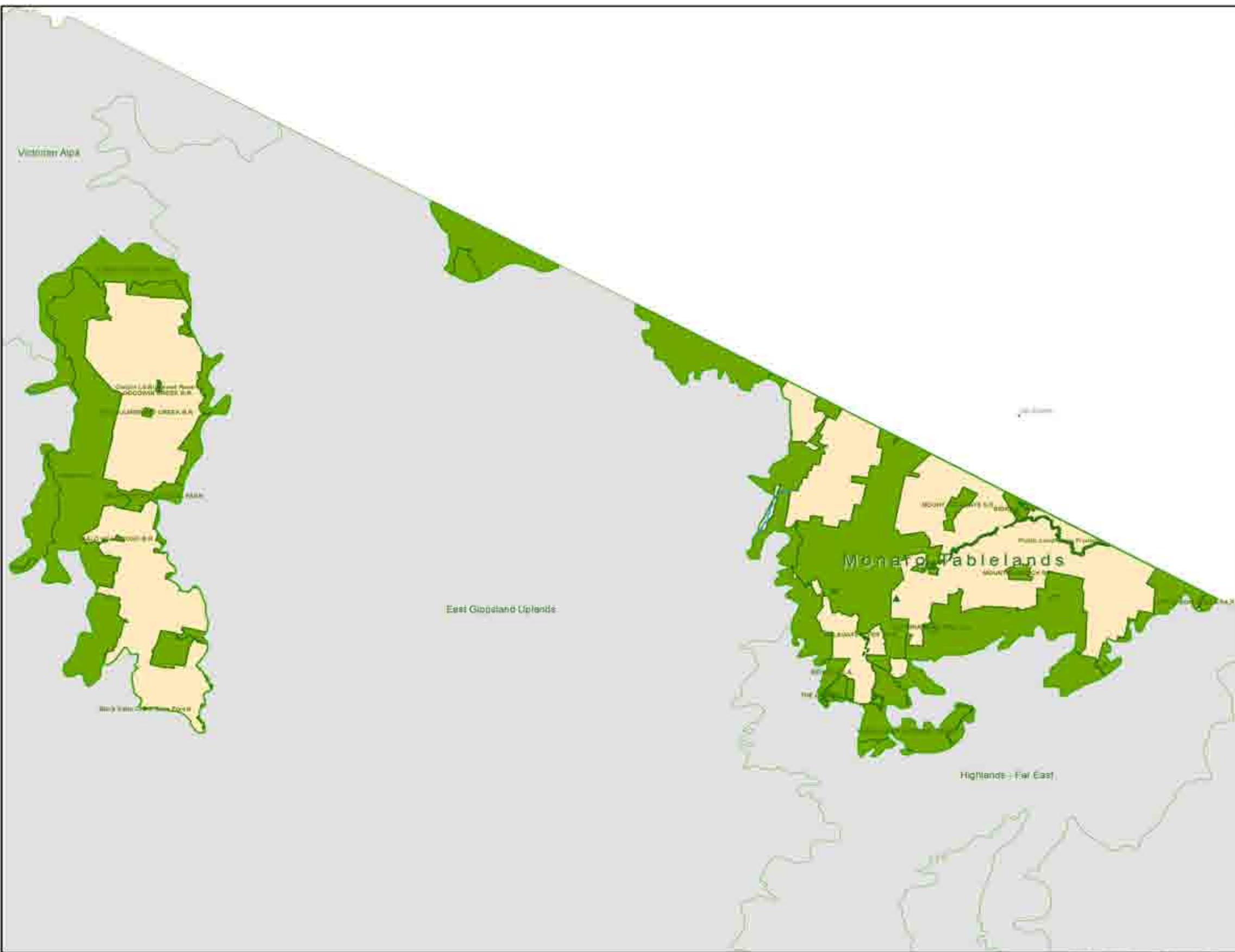
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**Monaro Tablelands
Bioregional Map 1b:
Protected Areas**

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes



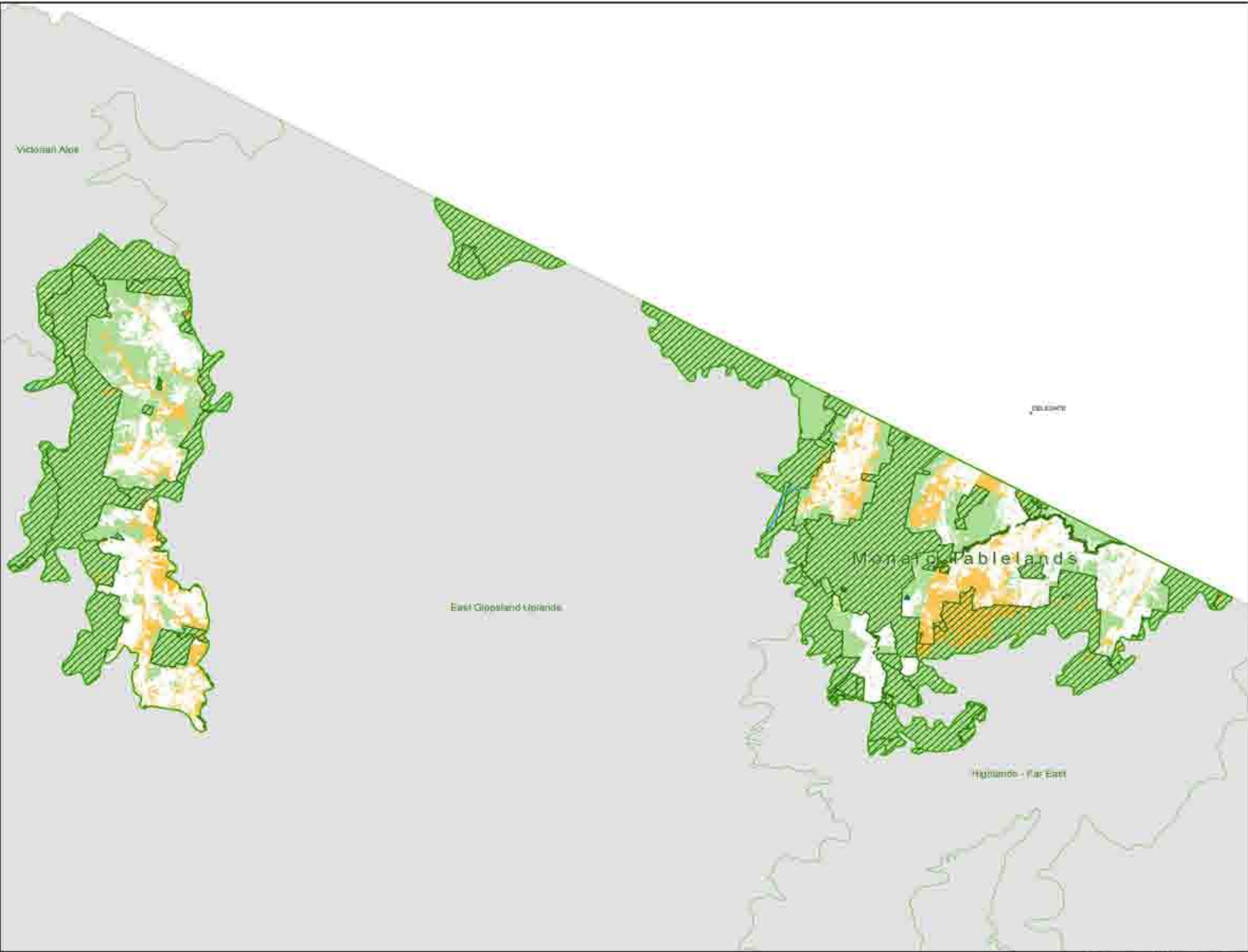
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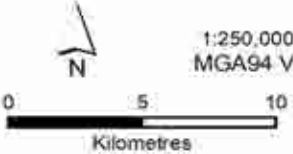


**Monaro Tablelands
Bioregional Map 2a:
Vegetation Conservation
Significance**

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- EVC Bioregional Conservation Status**
- Endangered
 - Vulnerable
 - Depleted
 - Rare
 - Least Concern



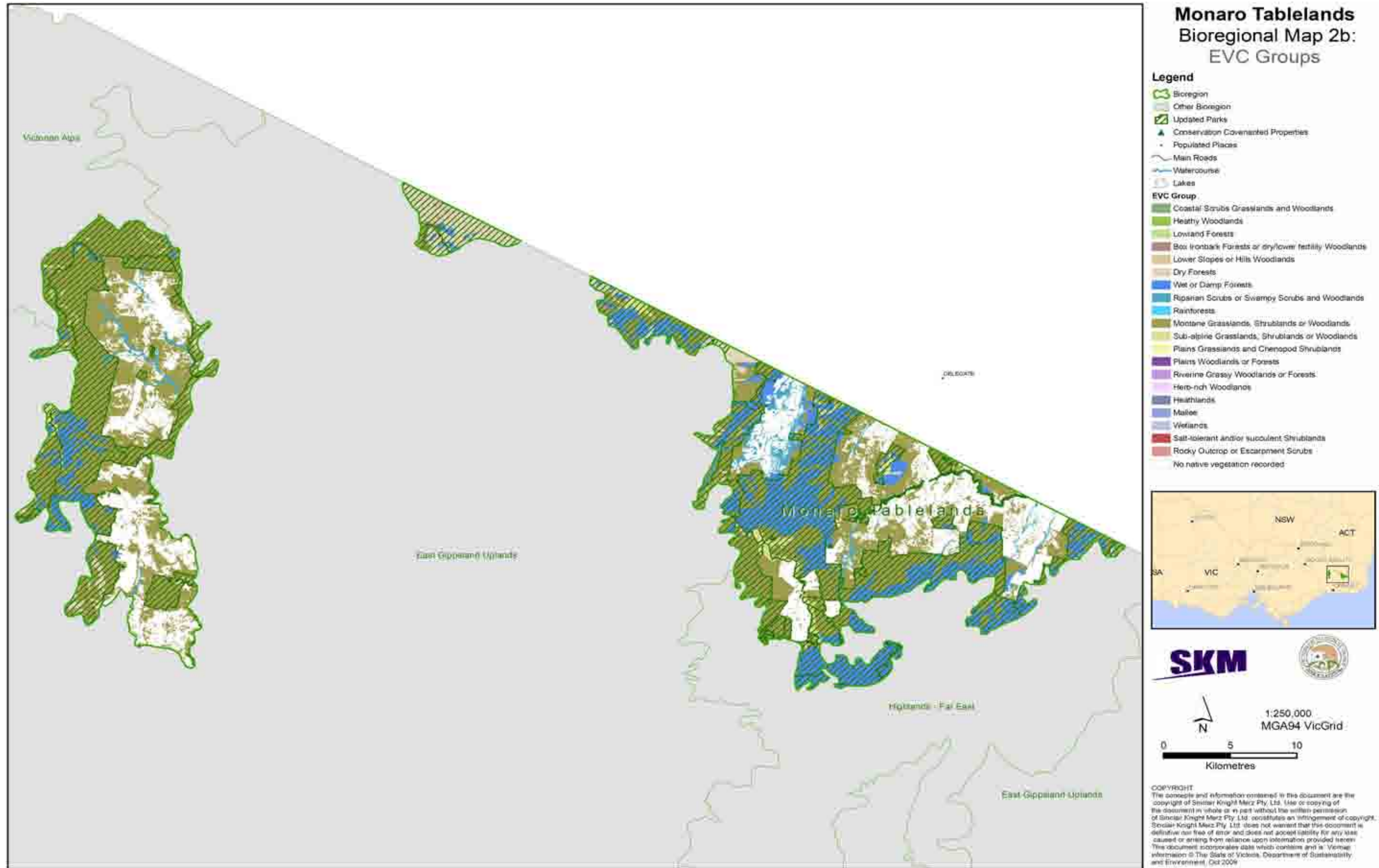
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Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Monaro Tablelands	18	Riparian Forest	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	28	0	28	28	0	0	0	0	0	28	100.0	100.0	100.0
Monaro Tablelands	21	Shrubby Dry Forest	6	Dry Forests	Least Concern	3328	2156	1124	3280	0	0	2156	0	43	3323	99.8	98.7	98.6
Monaro Tablelands	22	Grassy Dry Forest	6	Dry Forests	Least Concern	19	19	0	19	0	0	19	0	0	19	100.3	100.0	100.3
Monaro Tablelands	27	Blackthorn Scrub	20	Rocky Outcrop or Escarpment Scrubs	Rare	54	54	0	54	0	0	54	0	0	54	99.3	100.0	99.3
Monaro Tablelands	28	Rocky Outcrop Shrubland	20	Rocky Outcrop or Escarpment Scrubs	Rare	19	19	0	19	0	0	19	0	0	19	99.5	100.0	99.5
Monaro Tablelands	29	Damp Forest	7	Wet or Damp Forests	Least Concern	3444	573	1890	2463	0	0	573	0	819	3283	95.3	75.0	71.5
Monaro Tablelands	30	Wet Forest	7	Wet or Damp Forests	Least Concern	3592	471	3022	3493	1	0	471	0	42	3537	98.5	98.8	97.3
Monaro Tablelands	31	Cool Temperate Rainforest	9	Rainforests	Rare	37	27	9	37	0	0	27	0	0	37	100.0	100.0	100.0
Monaro Tablelands	35	Tableland Damp Forest	7	Wet or Damp Forests	Least Concern	4485	1514	2821	4335	0	0	1514	0	85	4420	98.6	98.1	96.7
Monaro Tablelands	36	Montane Dry Woodland	10	Montane Grasslands, Shrublands or Woodlands	Least Concern	39054	6954	14731	21685	313	0	6954	0	9813	31811	81.5	68.2	55.5
Monaro Tablelands	37	Montane Grassy Woodland	10	Montane Grasslands, Shrublands or Woodlands	Vulnerable	12512	250	1378	1627	70	0	250	0	4227	5924	47.4	27.5	13.0
Monaro Tablelands	38	Montane Damp Forest	7	Wet or Damp Forests	Least Concern	2162	800	1342	2141	0	0	800	0	18	2159	99.9	99.2	99.1
Monaro Tablelands	39	Montane Wet Forest	7	Wet or Damp Forests	Least Concern	3	3	0	3	0	0	3	0	0	3	100.7	100.0	100.7
Monaro Tablelands	40	Montane Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	4501	49	354	402	255	0	49	0	1565	2223	49.4	18.1	8.9
Monaro Tablelands	43	Sub-alpine Woodland	11	Sub-alpine Grasslands, Shrublands or Woodlands	Least Concern	1080	458	358	816	5	0	458	0	169	990	91.7	82.4	75.6
Monaro Tablelands	44	Sub-alpine Treeless Vegetation	11	Sub-alpine Grasslands, Shrublands or Woodlands	Rare	0	128	105	233	9	0	128	0	83	326	0.0	71.6	0.0
Monaro Tablelands	44	Sub-alpine Treeless Mosaic	11	Sub-alpine Grasslands, Shrublands or Woodlands		419	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Monaro Tablelands	47	Valley Grassy Forest	6	Dry Forests	Depleted	85	0	0	0	9	0	0	0	40	49	57.2	0.0	0.0
Total						74,820	13,473	27,162	40,635	663	0	13,473	0	16,905	58,204	77.8%	23.1%	18.0%

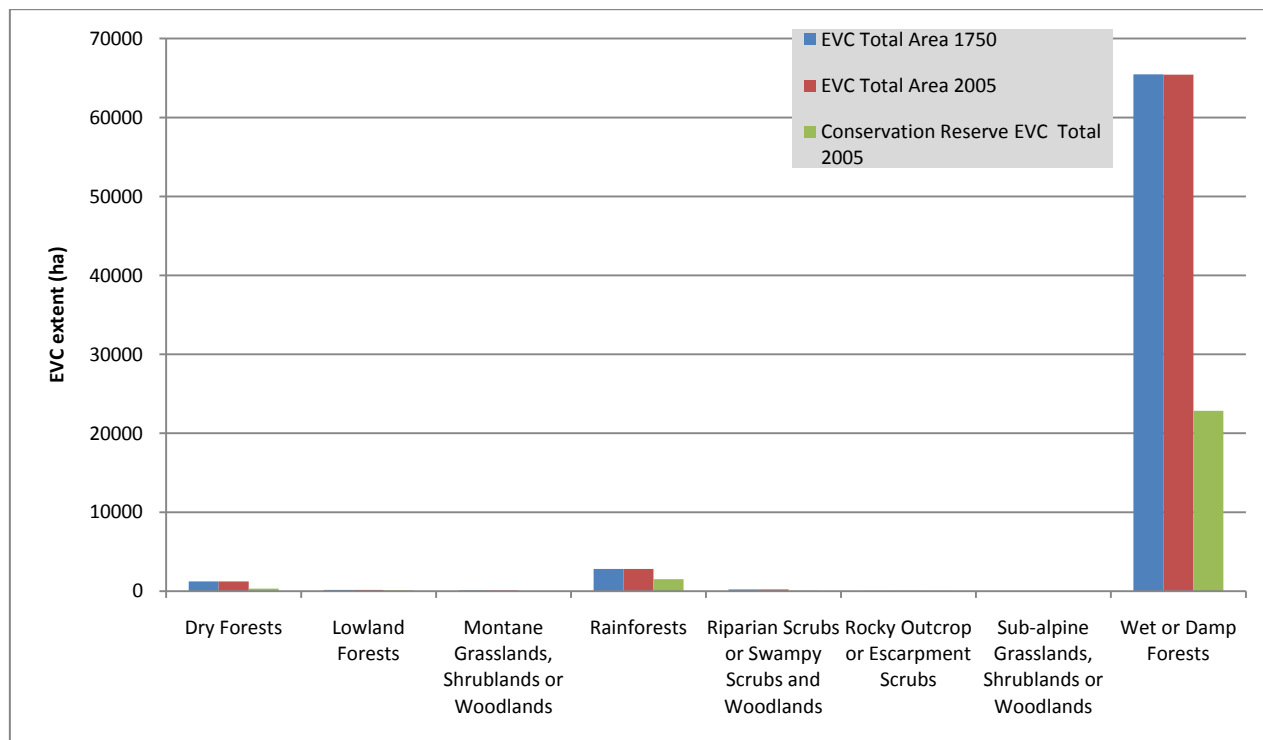


29. Highlands – Far East

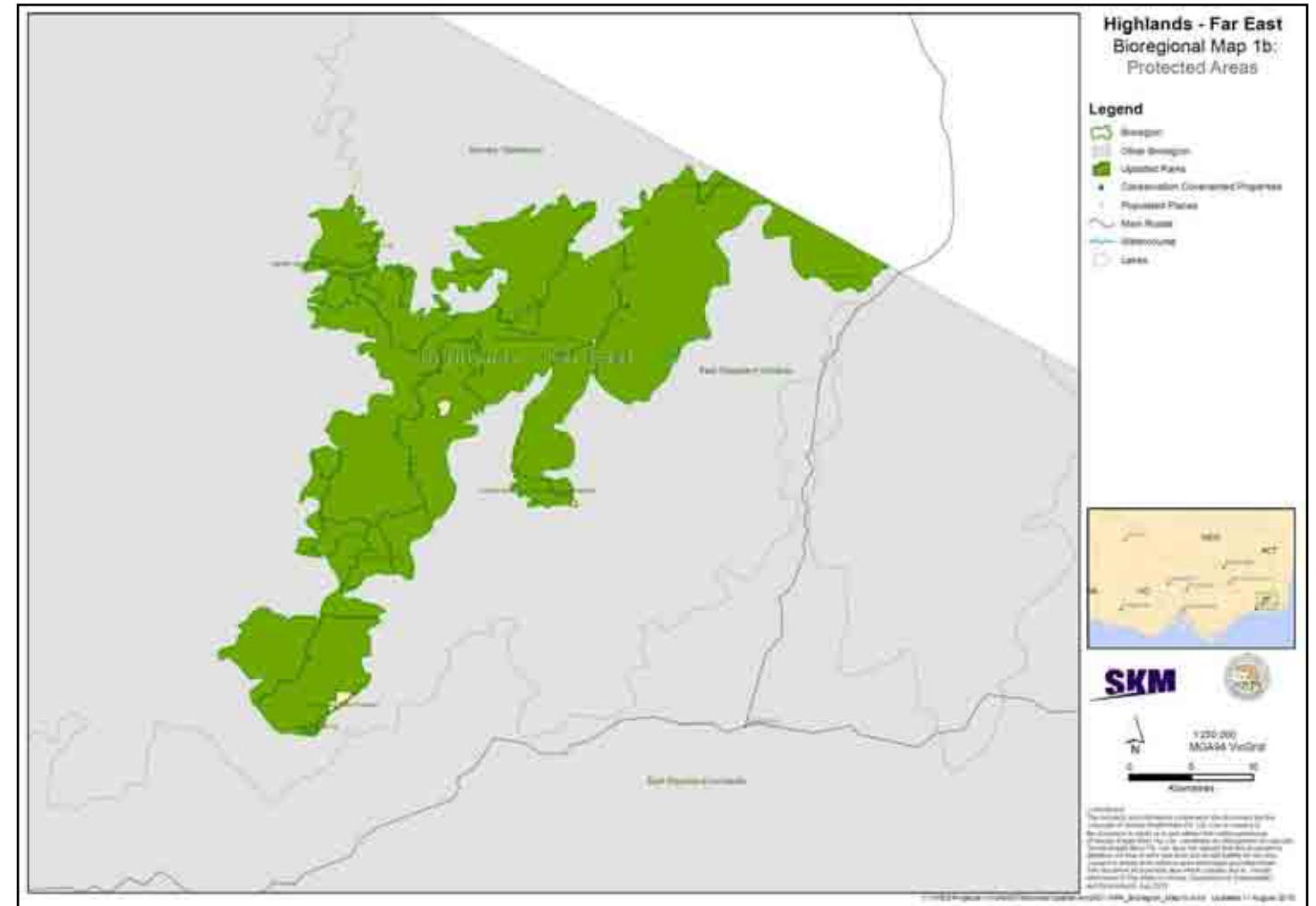
Bioregion size: 70 018 ha
 Native vegetation cover: 69 965 ha (100%)
 Conservation reserve cover (excludes State Forests): 24 898 ha (36%)

Native vegetation is largely intact and no Endangered EVCs are present within the Bioregion. Conservation efforts should focus on increasing the percentage of EVC group Wet or Damp forests, which have large areas located on unprotected public land.

The Highlands – Far East (HFE) Bioregion is a steep-sloped escarpment around Errinundra, north-east of Orbost, above the East Gippsland Uplands. The Bioregion covers approximately 70 018 ha, and is mostly made up of Wet Forest, Damp Forest and Cool Temperate Rainforest. The HFE is also classified in the Interim Bioregionalisation of Australia as Sub-region SEC4. The Bioregion is under the jurisdiction of the East Gippsland Catchment Management Authority (CMA), which is planned to become part of the broader Gippsland Natural Resources and Catchment Authority (NRCA) in 2011.

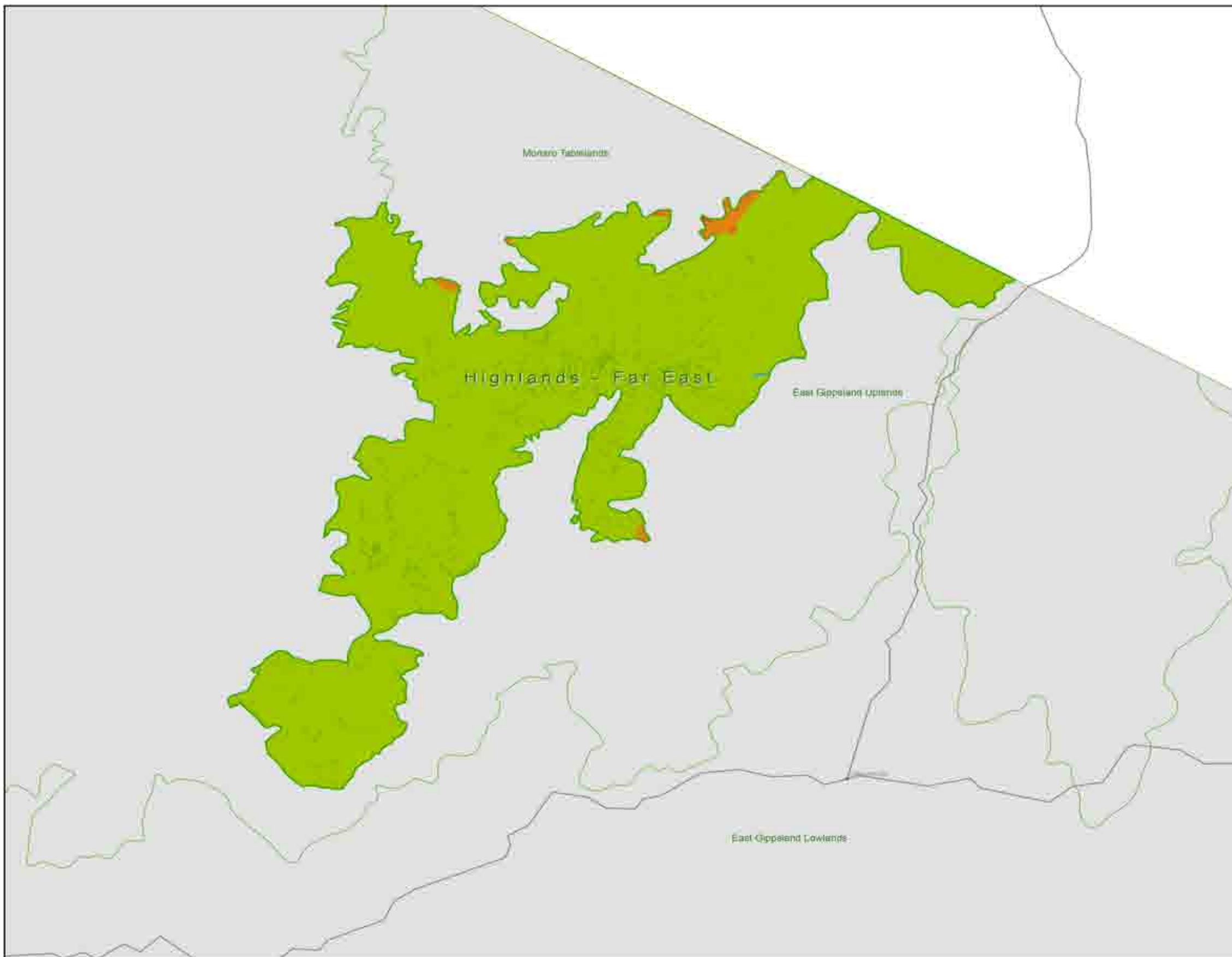


■ Figure 29-1 EVC Group Breakdown



■ Figure 29-2 Protected Areas – Highland – Far East

There are no Ramsar sites within the Bioregion. Less than 1% of HNE has been cleared, although only 36% of the remnant native vegetation is protected within Crown conservation reserves. The largest reserve within the Bioregion is the Errinundra National Park, which is known to support Commonwealth Environment Protection and Biodiversity Conservation (EPBC) Act listed threatened species, including the Spot-tailed Quoll (*Dasyurus maculatus*) and Long-nosed Potoroo (*Potorus longipes*). There are 17 published Ecological Vegetation Classes in HNE, none of which are Endangered. Seed tree silviculture (forestry) is undertaken in unprotected areas of this bioregion, including the eastern slopes of Brown Mountain, which are known habitat for the Long-nosed Potoroo.



Highlands - Far East
Bioregional Map 1a:
Landscape Priorities

Legend

- Bioregion
- Other Bioregion
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes

Landscape Importance

High 20
 Low 1



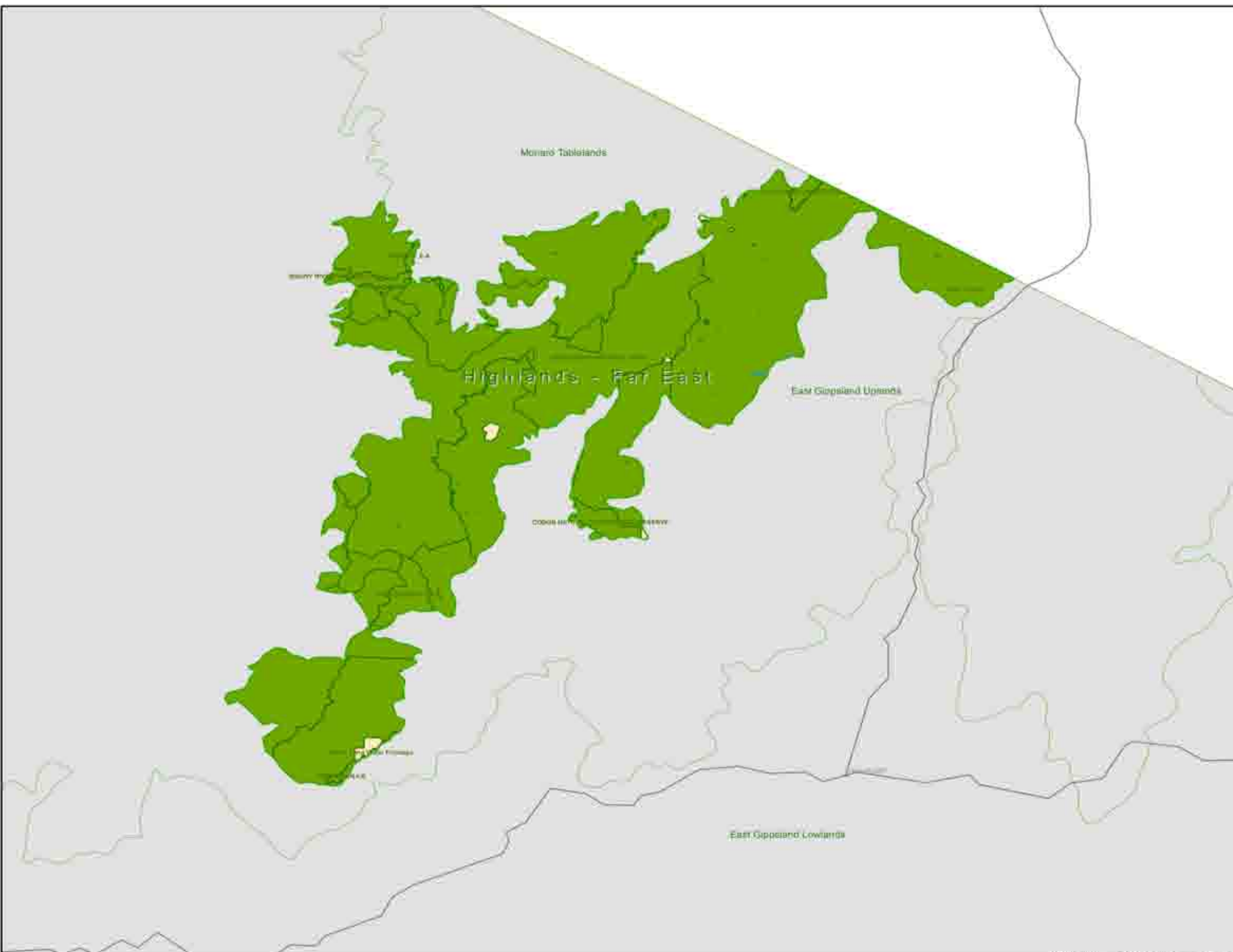
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Kilometres

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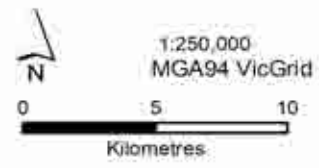


Highlands - Far East
Bioregional Map 1b:
Protected Areas

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes

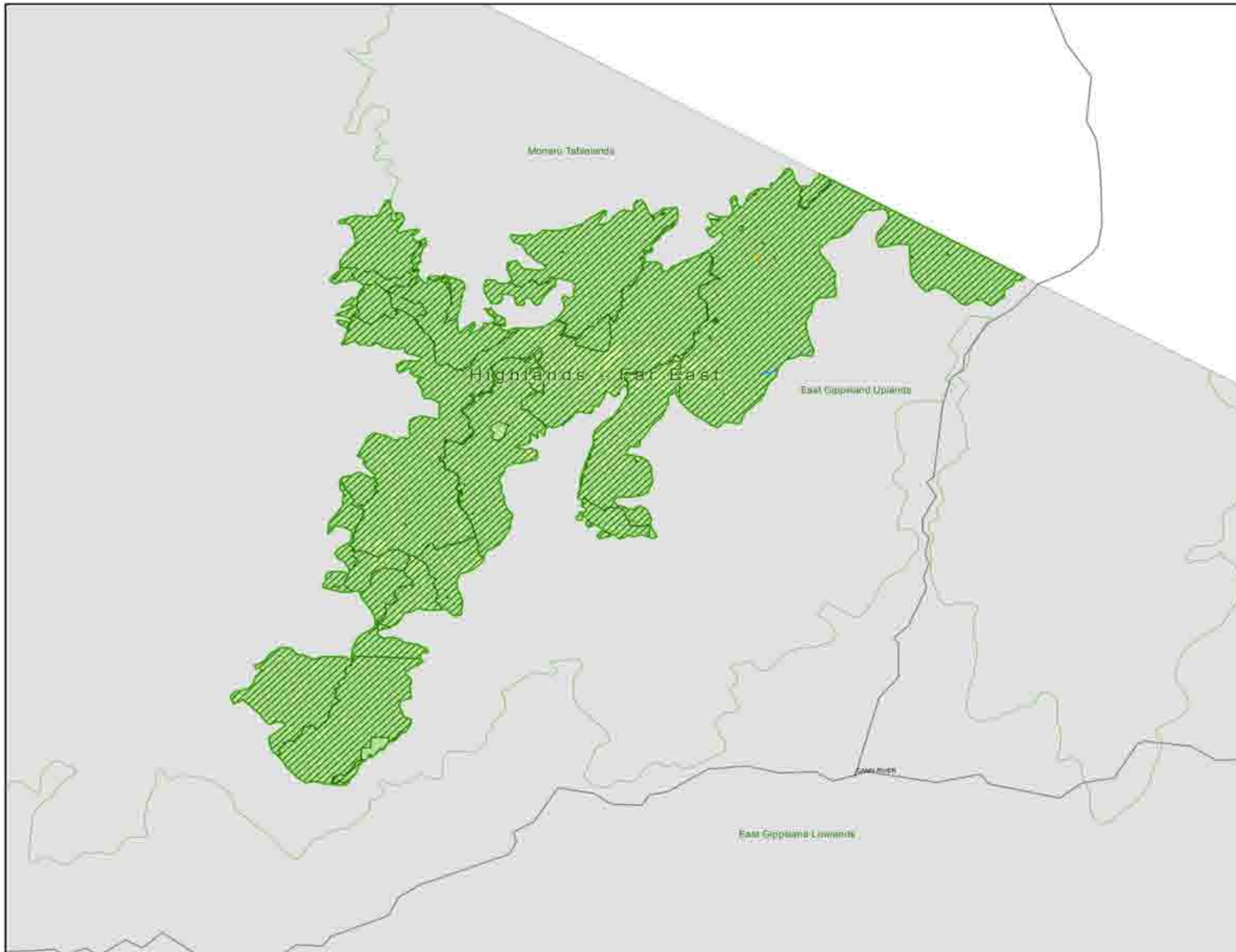


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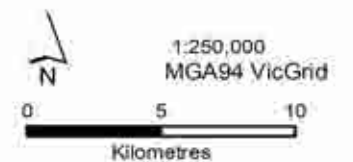
Highlands - Far East Bioregional Map 2a: Vegetation Conservation Significance

Legend

- Bioregion
- Other Bioregion
- Updated Parks
- Conservation Covenanted Properties
- Populated Places
- Main Roads
- Watercourse
- Lakes

EVC Bioregional Conservation Status

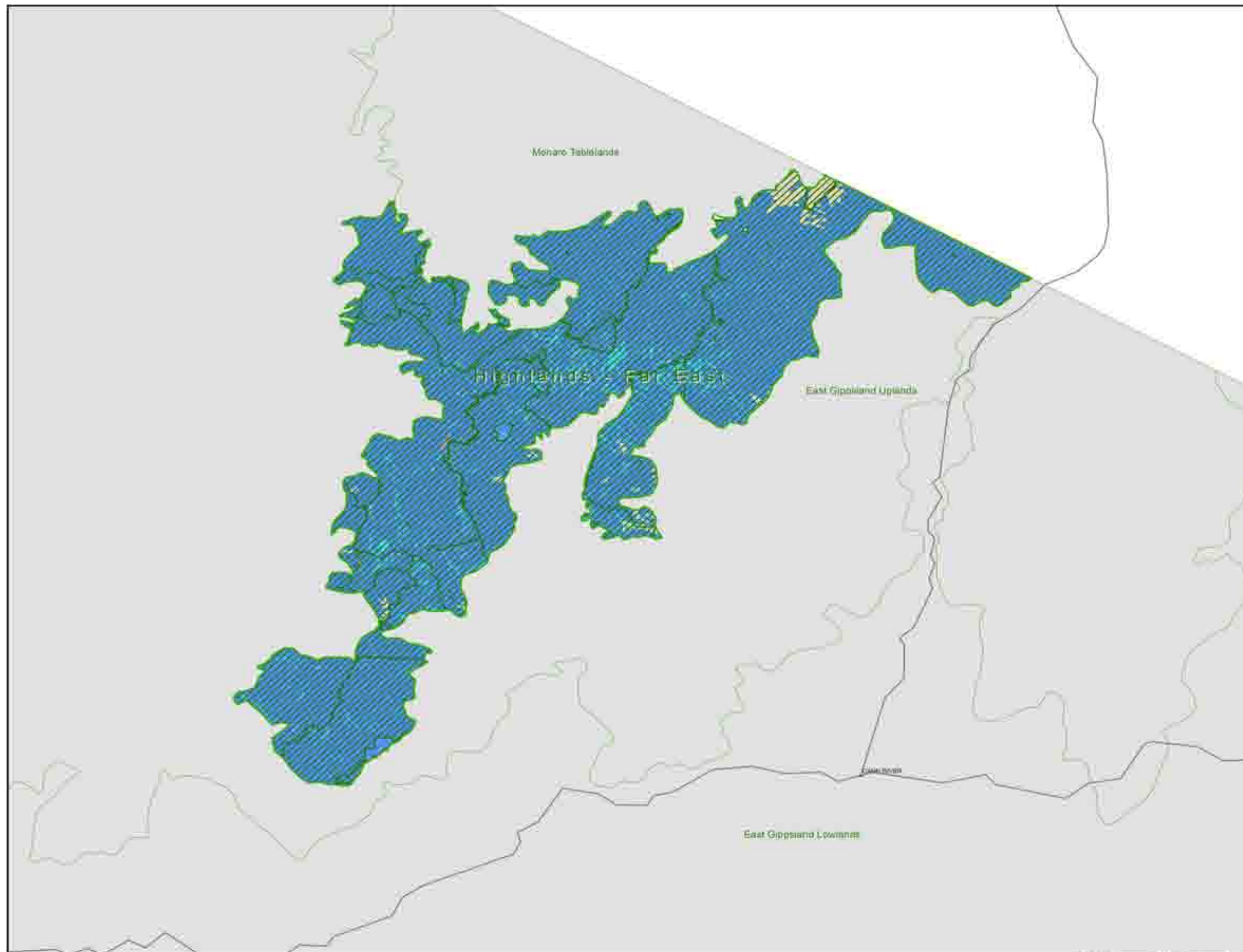
- Endangered
- Vulnerable
- Depleted
- Rare
- Least Concern

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**Highlands - Far East
Bioregional Map 2b:
EVC Groups**

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- EVC Group**
- Coastal Scrubs, Grasslands and Woodlands
 - Healthy Woodlands
 - Lowland Forests
 - Box Ironbark Forests or dry/lower fertility Woodlands
 - Lower Slopes or Hills Woodlands
 - Dry Forests
 - Wet or Damp Forests
 - Riparian Scrubs or Swampy Scrubs and Woodlands
 - Rainforests
 - Montane Grasslands, Shrublands or Woodlands
 - Sub-alpine Grasslands, Shrublands or Woodlands
 - Plains Grasslands and Chenopod Shrublands
 - Plains Woodlands or Forests
 - Rivenne Grassy Woodlands or Forests
 - Herb-rich Woodlands
 - Heathlands
 - Mires
 - Wetlands
 - Salt-tolerant and/or succulent Shrublands
 - Rocky Outcrop or Escarpment Scrubs
 - No native vegetation recorded



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Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Highlands - Far East	16	Lowland Forest	3	Lowland Forests	Least Concern	150	97	45	142	0	0	97	0	8	150	100.0	94.9	94.9
Highlands - Far East	18	Riparian Forest	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	150	53	94	147	0	0	53	0	3	150	99.9	98.2	98.1
Highlands - Far East	21	Shrubby Dry Forest	6	Dry Forests	Least Concern	1211	315	879	1194	0	0	315	0	16	1211	100.0	98.7	98.6
Highlands - Far East	28	Rocky Outcrop Shrubland	20	Rocky Outcrop or Escarpment Scrubs	Least Concern	40	40	0	40	0	0	40	0	0	40	100.0	100.0	100.0
Highlands - Far East	29	Damp Forest	7	Wet or Damp Forests	Least Concern	10471	988	9415	10403	0	0	988	0	43	10446	99.8	99.6	99.4
Highlands - Far East	30	Wet Forest	7	Wet or Damp Forests	Least Concern	52973	20531	31965	52496	106	0	20531	0	344	52945	99.9	99.2	99.1
Highlands - Far East	31	Cool Temperate Rainforest	9	Rainforests	Rare	2167	1147	1009	2156	0	0	1147	0	11	2167	100.0	99.5	99.5
Highlands - Far East	32	Warm Temperate Rainforest	9	Rainforests	Rare	441	219	214	433	1	0	219	0	7	441	100.0	98.3	98.3
Highlands - Far East	33	Cool Temperate Rainforest/Warm Temperate Rainforest Overlap	9	Rainforests	Rare	203	151	52	203	0	0	151	0	0	203	100.0	100.0	100.0
Highlands - Far East	35	Tableland Damp Forest	7	Wet or Damp Forests	Least Concern	693	282	410	692	0	0	282	0	1	693	100.0	99.8	99.8
Highlands - Far East	36	Montane Dry Woodland	10	Montane Grasslands, Shrublands or Woodlands	Least Concern	96	25	60	85	8	0	25	0	2	95	98.9	89.3	88.3
Highlands - Far East	37	Montane Grassy Woodland	10	Montane Grasslands, Shrublands or Woodlands	Vulnerable	0	0	0	0	0	0	0	0	0	0	107.1	100.0	107.1
Highlands - Far East	38	Montane Damp Forest	7	Wet or Damp Forests	Least Concern	129	109	21	129	0	0	109	0	0	129	100.1	99.9	99.9
Highlands - Far East	39	Montane Wet Forest	7	Wet or Damp Forests	Least Concern	1202	928	257	1185	0	0	928	0	17	1202	100.0	98.6	98.6
Highlands - Far East	40	Montane Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	29	7	21	28	0	0	7	0	0	29	100.0	99.7	99.7
Highlands - Far East	41	Montane Riparian Thicket	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	37	4	32	37	0	0	4	0	0	37	100.0	100.0	100.0
Highlands - Far East	44	Sub-alpine Treeless Vegetation	11	Sub-alpine Grasslands, Shrublands or Woodlands	Rare	0	1	0	1	0	0	1	0	0	1	0.0	100.0	0.0
Highlands - Far East	44	Sub-alpine Treeless Mosaic	11	Sub-alpine Grasslands, Shrublands or Woodlands		1	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Highlands - Far East	47	Valley Grassy Forest	6	Dry Forests	Depleted	27	0	27	27	0	0	0	0	0	27	99.8	100.0	99.8
Total						70,018	24,898	44,501	69,399	115	0	24,898	0	452	69,965	99.9%	35.6%	35.6%

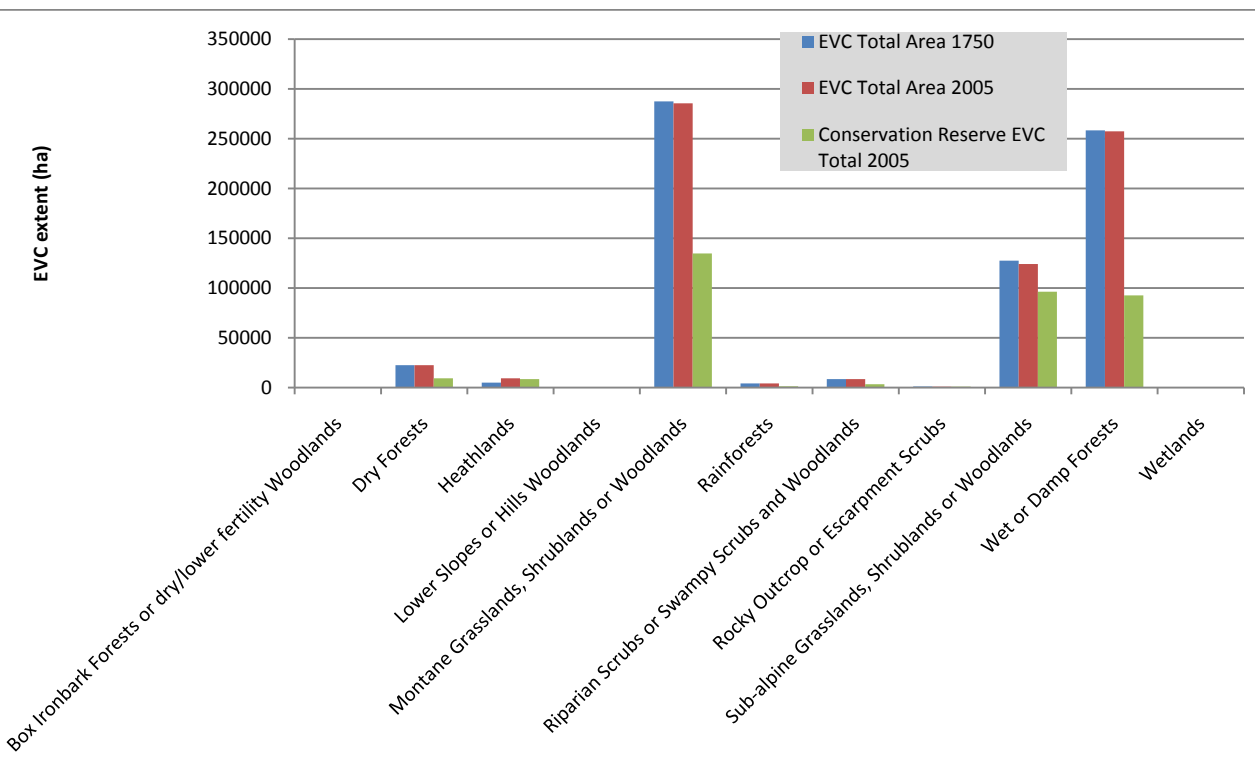


30. Victorian Alps

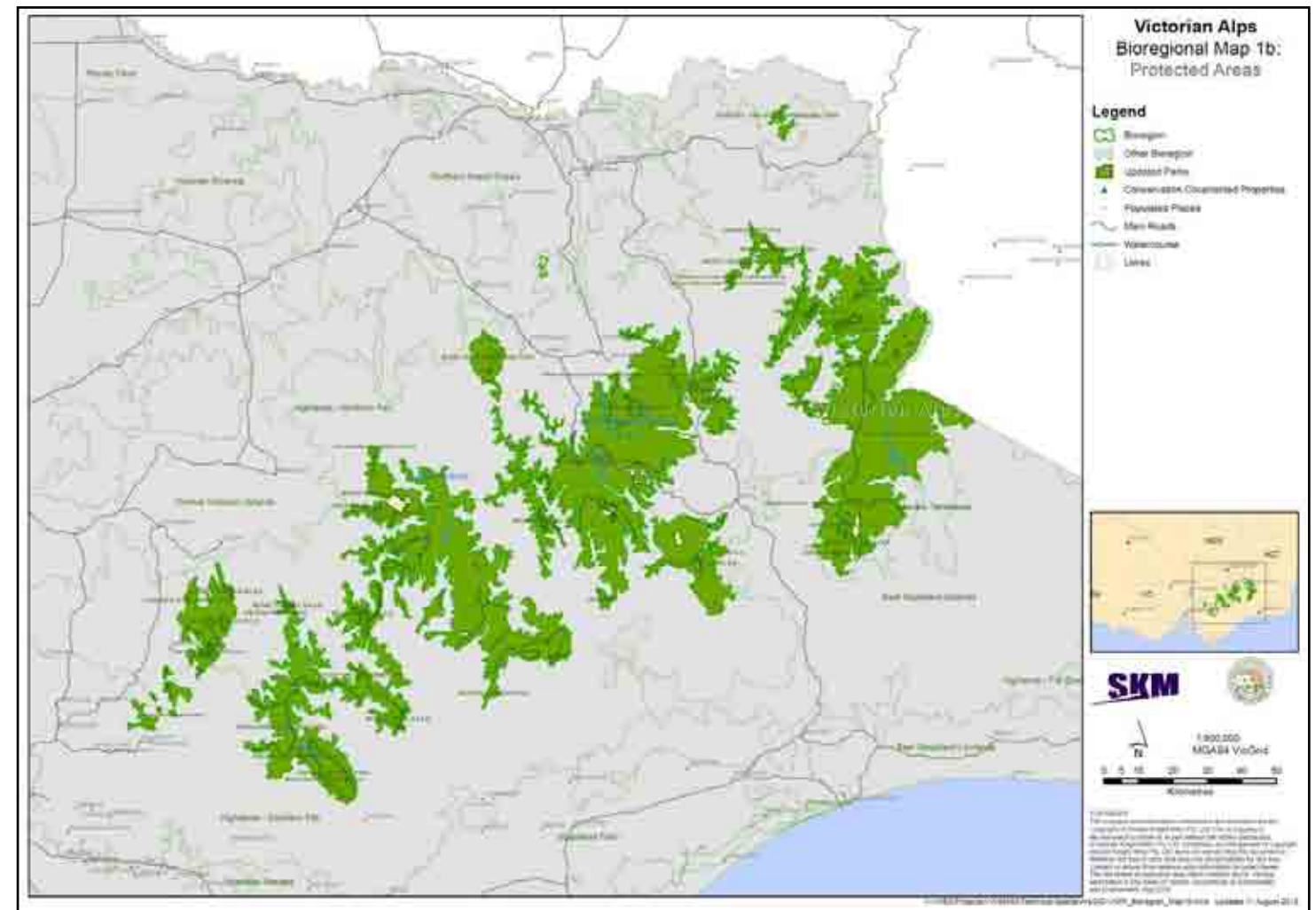
Bioregion size: 714 321 ha
 Native vegetation cover: 712 692 ha (100%)
 Conservation reserve cover (excludes State Forests): 347 019 ha (49%)

The Bioregion's native vegetation is largely intact and very little Endangered vegetation is present. With much of the remaining unprotected native vegetation located on public land, conservation priority can be directed towards increasing the percentage of vegetation under protection in EVC groups Montane Grasslands, Shrublands and Woodlands and Wet or Damp Forests, which have large unprotected areas available on public land.

The Victorian Alps Bioregion (VAIp) covers approximately 714 321 ha. The area consists of high plateaus and peaks, above 1200 m in altitude, along the Great Dividing Range, from the Baw Baw Plateau in the south and extending north-east to the Victorian border. There are no major settlements in the region, except for five Alpine Resorts Areas. The upper slopes of the area are dominated by Montane Dry Woodland, Montane Damp Forest, Montane Wet Forest and Montane Grassy Woodland, while the subalpine regions generally support Sub-alpine Woodland, Treeless Sub-alpine Mosaic and Sub-alpine Grassland. The Victorian Alps is Sub-region AA2 of the Australian Alps Interim Biogeographic Regionalisation of Australia (IBRA) Bioregion. The Bioregion falls across four different Catchment Management Authority (CMA) areas: North East CMA, East Gippsland CMA, Goulburn Broken CMA and West Gippsland CMA. Under the proposed alignment of new Natural Resource & Catchment Authorities (NRCA) to be implemented in 2011, the North East CMA and Goulburn Broken CMA will be part of the Northern Rivers NRCA and the East Gippsland CMA and West Gippsland CMA will be part of the Gippsland NRCA. The major National parks in the area are the Alpine National Park, Baw Baw National Park and Mount Buffalo National Park.

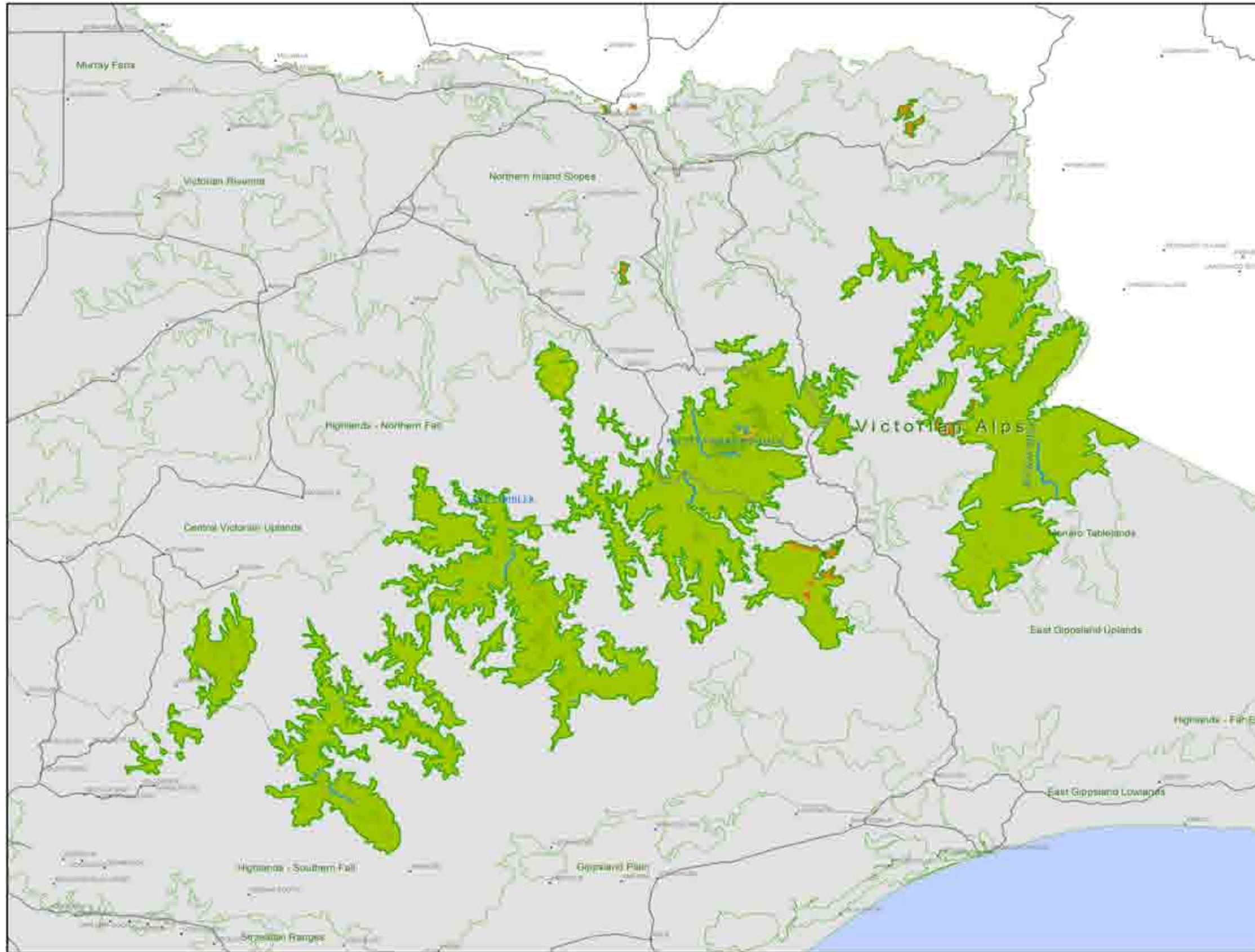


■ Figure 30-1 EVC Group Breakdown



■ Figure 30-2 Protected Areas – Victorian Alps

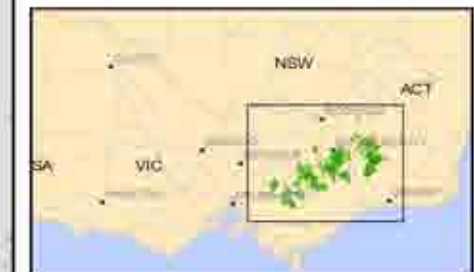
The Bioregion supports 48 Ecological Vegetation Classes (EVCs) and EVC Mosaics, of which six (6) have a Bioregional Conservation Status (BCS) of Endangered. Almost all of the Bioregion is public land and less than 1% of native vegetation has been cleared in the region. All EVCs have maintained at least 75% of the pre-1750 area, however, only 49% of all EVCs is protected. The Bioregion also provides habitat for Mountain Pygmy-Possum (*Burramys parvus*) and Smokey Mouse (*Pseudomys fumeus*), both listed as Endangered under the Commonwealth Environment Protection and Biodiversity Conservation (EPBC) Act, and Australian Grayling (*Prototroctes maraena*), listed as Vulnerable. The region also supports many State Flora and Fauna Guarantee (FFG) Act listed species, including Leadbeater's Possum (*Gymnobelideus leadbeateri*) Alpine Water Skink (*Eulamprus kosciuskoi*) and Baw Baw Frog (*Philoria frosti*). Land use in the Victorian Alps is predominately conservation and recreation (commercial tourism). Forestry, hydro electricity generation and seasonal grazing also occur in the area. Many of the ecological communities found in the Victorian Alps are particularly sensitive to disturbance due to the climate, topography, short growing season, and limited extent of the area. Ongoing threats to the region include impacts from grazing, feral animals, exotic weeds, changed fire regimes and pathogens, particularly in the higher altitude areas where the most sensitive communities are located. Climate change also poses a significant risk to the Bioregion, with shorter, drier winters projected for the region. This will compound the biodiversity losses in the region and could reduce the ranges of already Endangered species, such as Mountain Pygmy-Possum, and other species unique to the region.



**Victorian Alps
Bioregional Map 1a:
Landscape Priorities**

Legend

- Bioregion
 - Other Bioregion
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- Landscape Importance**
-
- High : 20
Low : 1



1:900,000
MGA94 VicGrid

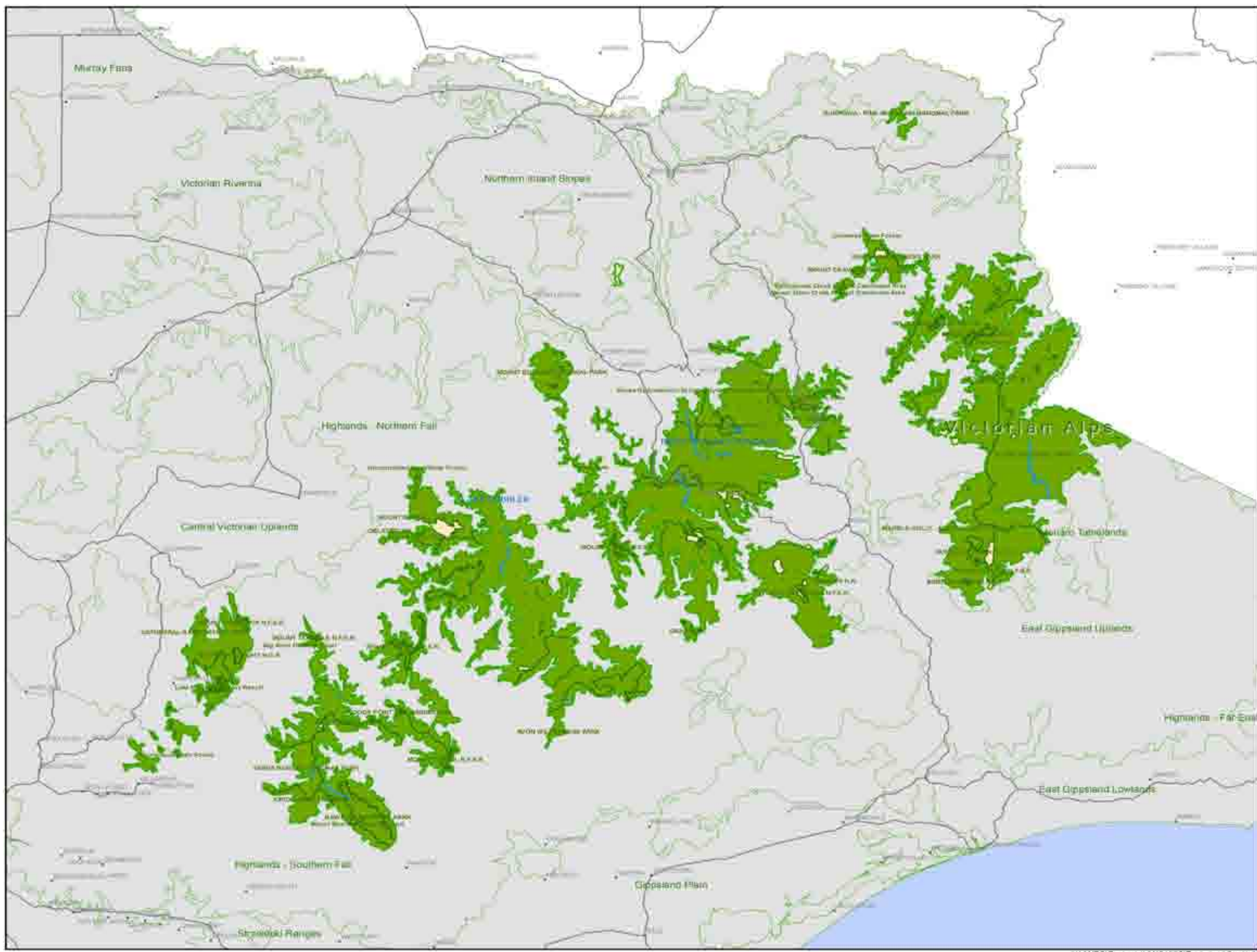
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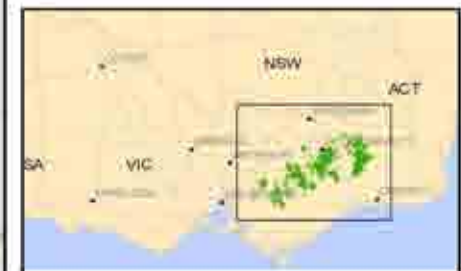


Terrestrial Biodiversity Review



**Victorian Alps
Bioregional Map 1b:
Protected Areas**

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes



SKM

1:900,000
MGA94 VicGrid

0 5 10 20 30 40 50
Kilometres

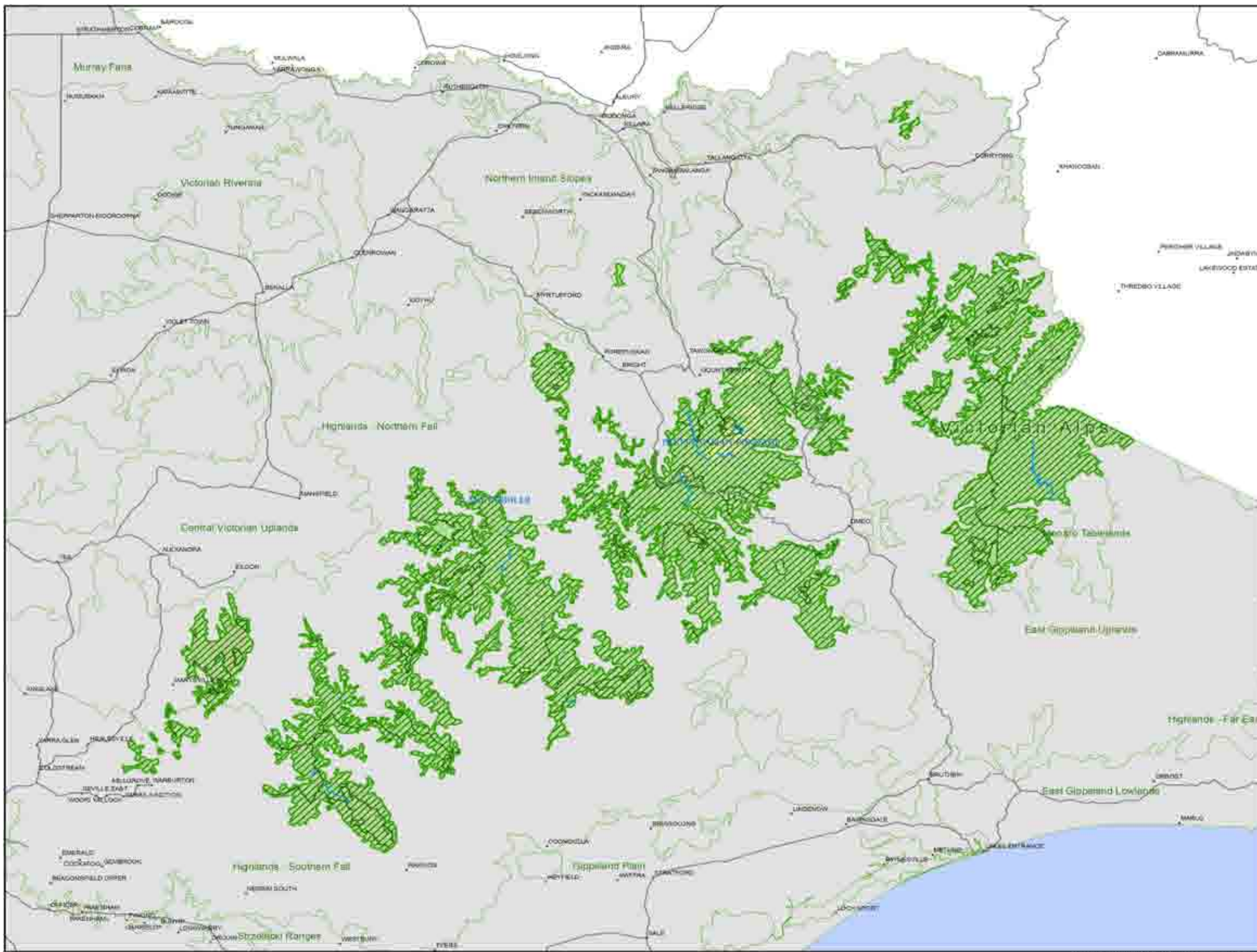
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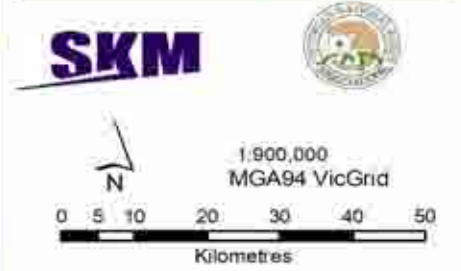


Terrestrial Biodiversity Review



Victorian Alps Bioregional Map 2a: Vegetation Conservation Significance

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- EVC Bioregional Conservation Status**
- Endangered
 - Vulnerable
 - Depleted
 - Rare
 - Least Concern



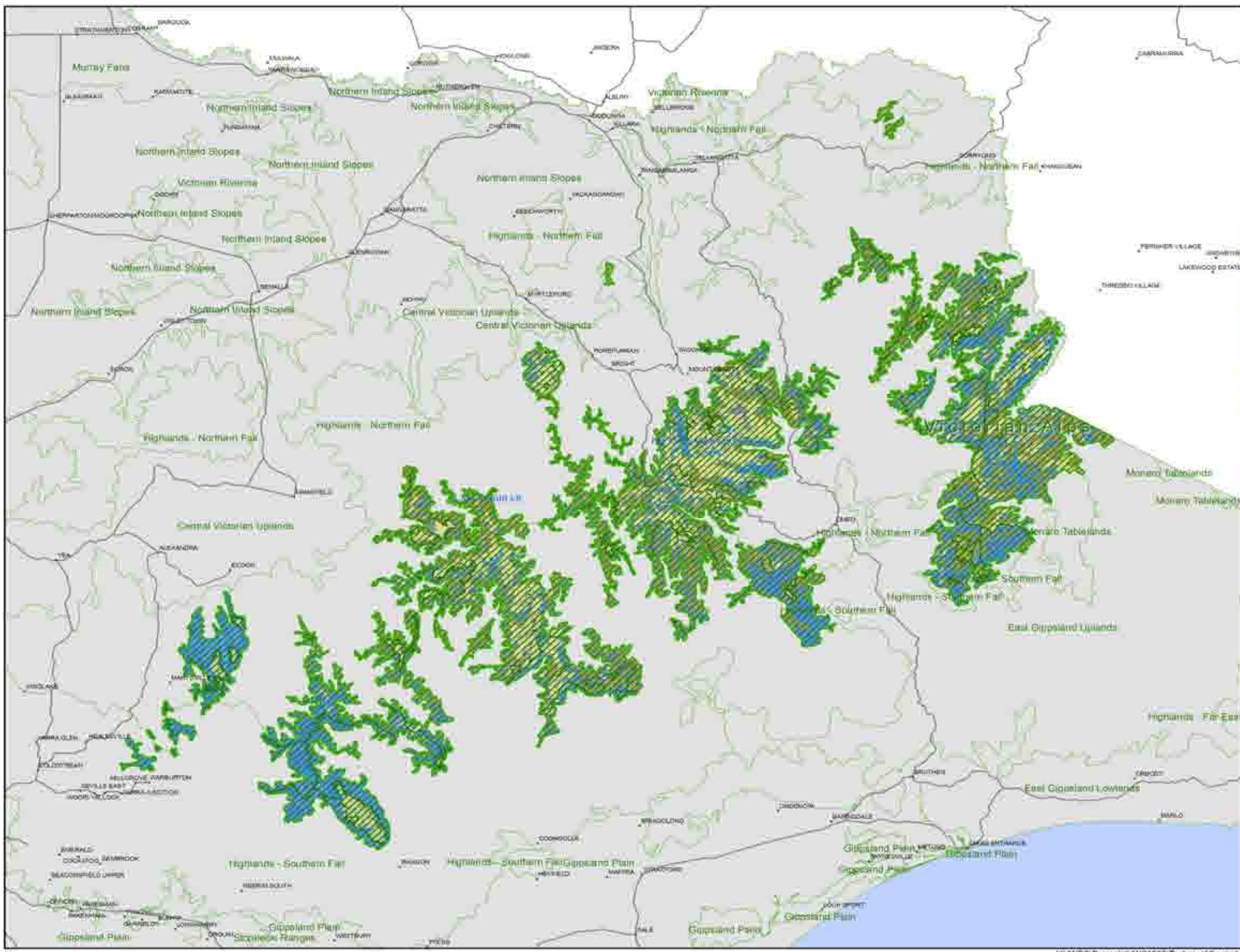
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Terrestrial Biodiversity Review

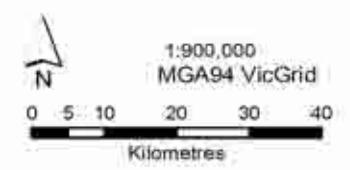


**Victorian Alps
Bioregional Map 2b:
EVC Groups**

- Legend**
- Bioregion
 - Other Bioregion
 - Updated Parks
 - Conservation Covenanted Properties
 - Populated Places
 - Main Roads
 - Watercourse
 - Lakes
- EVC Group**
- Coastal Scrubs, Grasslands and Woodlands
 - Healthy Woodlands
 - Lowland Forests
 - Box Ironbark Forests or dryflower fertility Woodlands
 - Lower Slopes or Hills Woodlands
 - Dry Forests
 - Wet or Damp Forests
 - Riparian Scrubs or Swampy Scrubs and Woodlands
 - Rainforests
 - Montane Grasslands, Shrublands or Woodlands
 - Sub-alpine Grasslands, Shrublands or Woodlands
 - Plains Grasslands and Chenopod Shrublands
 - Plains Woodlands or Forests
 - Riverine Grassy Woodlands or Forests
 - Herb-rich Woodlands
 - Heathlands
 - Males
 - Wetlands
 - Salt-tolerant and/or succulent Shrublands
 - Rocky Outcrop or Escarpment Scrubs
 - No native vegetation recorded



SKM



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Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Victorian Alps	18	Riparian Forest	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	851	508	328	836	12	0	508	0	2	851	100.0	98.3	98.3
Victorian Alps	19	Riparian Shrubland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Rare	111	99	0	99	0	0	99	0	0	99	89.0	100.0	89.0
Victorian Alps	20	Heathy Dry Forest	6	Dry Forests	Least Concern	4650	2273	2256	4529	69	0	2273	0	47	4645	99.9	97.5	97.4
Victorian Alps	21	Shrubby Dry Forest	6	Dry Forests	Least Concern	5938	2945	2808	5753	184	0	2945	0	4	5941	100.0	96.8	96.9
Victorian Alps	22	Grassy Dry Forest	6	Dry Forests	Least Concern	264	262	2	264	0	0	262	0	0	264	99.9	100.0	99.9
Victorian Alps	23	Herb-rich Foothill Forest	6	Dry Forests	Least Concern	10909	3746	6828	10574	283	0	3746	0	38	10895	99.9	97.1	96.9
Victorian Alps	27	Blackthorn Scrub	20	Rocky Outcrop or Escarpment Scrubs	Rare	24	24	0	24	0	0	24	0	0	24	100.1	100.0	100.1
Victorian Alps	28	Rocky Outcrop Shrubland	20	Rocky Outcrop or Escarpment Scrubs	Rare	61	15	46	61	0	0	15	0	0	61	100.0	100.0	100.0
Victorian Alps	29	Damp Forest	7	Wet or Damp Forests	Least Concern	7945	1783	5722	7505	420	0	1783	0	15	7940	99.9	94.5	94.5
Victorian Alps	30	Wet Forest	7	Wet or Damp Forests	Least Concern	9118	1786	7143	8929	115	0	1786	0	57	9102	99.8	98.1	97.9
Victorian Alps	31	Cool Temperate Rainforest	9	Rainforests	Endangered	4112	1170	2874	4044	25	0	1170	0	17	4086	99.4	99.0	98.4
Victorian Alps	35	Tableland Damp Forest	7	Wet or Damp Forests	Least Concern	10434	666	9040	9706	701	0	666	0	6	10413	99.8	93.2	93.0
Victorian Alps	36	Montane Dry Woodland	10	Montane Grasslands, Shrublands or Woodlands	Least Concern	266635	125712	127757	253468	8322	0	125712	0	3194	264984	99.4	95.7	95.1
Victorian Alps	37	Montane Grassy Woodland	10	Montane Grasslands, Shrublands or Woodlands	Least Concern	13247	5146	7487	12633	34	0	5146	0	460	13127	99.1	96.2	95.4
Victorian Alps	38	Montane Damp Forest	7	Wet or Damp Forests	Least Concern	164168	63448	95385	158833	3974	0	63448	0	851	163658	99.7	97.1	96.8
Victorian Alps	39	Montane Wet Forest	7	Wet or Damp Forests	Least Concern	65633	24418	40018	64435	437	0	24418	0	468	65341	99.6	98.6	98.2
Victorian Alps	40	Montane Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	1447	961	203	1164	24	0	961	0	182	1369	94.7	85.0	80.4
Victorian Alps	41	Montane Riparian Thicket	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	6011	1806	4177	5983	125	0	1806	0	61	6168	102.6	97.0	99.5
Victorian Alps	42	Sub-alpine Shrubland	11	Sub-alpine Grasslands, Shrublands or Woodlands	Rare	306	1967	6	1973	432	0	1967	0	2	2407	785.4	82.0	643.9
Victorian Alps	43	Sub-alpine Woodland	11	Sub-alpine Grasslands, Shrublands or Woodlands	Least Concern	87477	86947	17260	104207	6098	0	86947	0	1448	111753	127.8	93.2	119.1
Victorian Alps	44	Sub-alpine Treeless Vegetation	11	Sub-alpine Grasslands, Shrublands or Woodlands	Rare	0	3141	1315	4456	514	0	3141	0	239	5208	0.0	85.6	0.0
Victorian Alps	44	Sub-alpine Treeless Mosaic	11	Sub-alpine Grasslands, Shrublands or Woodlands		23898	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Victorian Alps	45	Shrubby Foothill Forest	6	Dry Forests	Least Concern	641	83	498	581	60	0	83	0	0	641	100.0	90.6	90.6
Victorian Alps	72	Granitic Hills Woodland	4	Box Ironbark Forests or dry/lower fertility Woodlands	Least Concern	178	178	0	178	0	0	178	0	0	178	100.1	100.0	100.1
Victorian Alps	73	Rocky Outcrop Shrubland/Rocky Outcrop Hermland Mosaic	20	Rocky Outcrop or Escarpment Scrubs	Rare	899	732	55	787	0	0	732	0	3	790	87.9	99.6	87.6
Victorian Alps	82	Riverine Escarpment Scrub	20	Rocky Outcrop or Escarpment Scrubs	Vulnerable	47	47	0	47	0	0	47	0	0	47	100.0	100.0	100.0
Victorian Alps	83	Swampy Riparian Woodland	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Vulnerable	17	5	12	17	0	0	5	0	0	17	100.1	100.0	100.1
Victorian Alps	84	Riparian Forest/Swampy Riparian Woodland/Riparian Shrubland/Riverine Escarpment Scrub Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Depleted	2	2	0	2	0	0	2	0	0	2	100.0	100.0	100.0
Victorian Alps	156	Alpine Coniferous Shrubland	16	Heathlands	Vulnerable	0	59	0	59	7	0	59	0	0	66	0.0	89.6	0.0
Victorian Alps	169	Dry Valley Forest	6	Dry Forests	Vulnerable	3	0	3	3	0	0	0	0	0	3	100.3	100.0	100.3
Victorian Alps	171	Alpine Fen	11	Sub-alpine Grasslands, Shrublands or Woodlands	Endangered	0	24	6	30	0	0	24	0	0	30	0.0	100.0	0.0
Victorian Alps	175	Grassy Woodland	5	Lower Slopes or Hills Woodlands	Depleted	143	143	0	143	0	0	143	0	0	143	100.0	100.0	100.0
Victorian Alps	192	Montane Rocky Shrubland	10	Montane Grasslands, Shrublands or Woodlands	Least Concern	2869	2531	242	2774	0	0	2531	0	0	2774	96.7	100.0	96.7
Victorian Alps	201	Shrubby Wet Forest	7	Wet or Damp Forests	Least Concern	435	12	366	378	55	0	12	0	0	434	99.7	87.3	87.0
Victorian Alps	206	Sub-alpine Grassland	11	Sub-alpine Grasslands, Shrublands or Woodlands	x	15705	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Victorian Alps	208	Sub-alpine Riparian Shrubland	11	Sub-alpine Grasslands, Shrublands or Woodlands	Rare	0	14	0	14	0	0	14	0	0	14	0.0	100.0	0.0
Victorian Alps	210	Sub-alpine Wet Heathland	16	Heathlands	Endangered	1599	1028	77	1104	26	0	1028	0	76	1206	75.4	91.6	69.1
Victorian Alps	211	Sub-alpine Wet Heathland/Alpine Valley Peatland Mosaic	16	Heathlands	Endangered	0	1438	17	1454	62	0	1438	0	8	1524	0.0	95.5	0.0
Victorian Alps	288	Alpine Valley Peatland	18	Wetlands	Endangered	0	181	0	181	0	0	181	0	0	181	0.0	100.0	0.0
Victorian Alps	293	Riparian Forest/Creekline Grassy Woodland Mosaic	8	Riparian Scrubs or Swampy Scrubs and Woodlands	Least Concern	0	4	0	4	0	0	4	0	0	4	0.0	100.0	0.0



Terrestrial Biodiversity Review

BIOREGION	EVC #	EVC NAME	EVC GROUP #	EVC GROUP NAME	EVC CONSERVATION STATUS	EVC TOTAL AREA 1750 (ha)	EVC in Cons. Res. 2005 (ha)	EVC in State Forest 2005 (ha)	EVC State Managed Total (Cons. Res + State Forest) 2005 (ha)	EVC on Other Public Land 2005 (ha)	EVC in Private Cons. Res. 2005 (ha)	Protected EVC Total 2005 (ha)	Unknown Tenure (ha)	EVC on Private, Non-Cons. Land 2005 (ha)	EVC TOTAL AREA 2005 (ha)	EVC 2005 / EVC Pre1750 (%)	Protected / Total EVC 2005 (%)	Protected / Pre1750 (%)
Victorian Alps	316	Shrubby Damp Forest	7	Wet or Damp Forests	Least Concern	585	441	139	581	4	0	441	0	0	584	99.9	99.4	99.3
Victorian Alps	317	Sub-alpine Wet Heathland/Sub-alpine Grassland Mosaic	16	Heathlands	x	3264	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Victorian Alps	319	Montane Herb-rich Woodland	10	Montane Grasslands, Shrublands or Woodlands	Least Concern	4689	1298	3252	4551	106	0	1298	0	19	4675	99.7	97.3	97.0
Victorian Alps	1001	Alpine Grassland	11	Sub-alpine Grasslands, Shrublands or Woodlands	Rare	0	2015	113	2128	72	0	2015	0	117	2317	0.0	91.8	0.0
Victorian Alps	1002	Alpine Damp Grassland	11	Sub-alpine Grasslands, Shrublands or Woodlands	Rare	0	1487	74	1561	28	0	1487	0	84	1672	0.0	93.3	0.0
Victorian Alps	1003	Sub-alpine Dry Shrubland	11	Sub-alpine Grasslands, Shrublands or Woodlands	Rare	0	442	0	442	11	0	442	0	7	461	0.0	96.0	0.0
Victorian Alps	1004	Alpine Grassy Heathland	16	Heathlands	Rare	0	4750	22	4772	305	0	4750	0	74	5151	0.0	92.6	0.0
Victorian Alps	1005	Alpine Grassy Heathland/Alpine Grassland Mosaic	16	Heathlands	Rare	0	557	0	557	2	0	557	0	94	653	0.0	85.3	0.0
Victorian Alps	1012	Snowpatch Grassland	11	Sub-alpine Grasslands, Shrublands or Woodlands	Vulnerable	0	82	0	82	37	0	82	0	0	120	0.0	68.7	0.0
Victorian Alps	1014	Late-lying Snowpatch Herbland	11	Sub-alpine Grasslands, Shrublands or Woodlands	Endangered	0	92	0	92	2	0	92	0	0	94	0.0	97.5	0.0
Victorian Alps	1105	Alpine Rocky Outcrop Heathland/Alpine Dwarf Heathland Mosaic	16	Heathlands	Rare	0	551	2	553	24	0	551	0	0	577	0.0	95.9	0.0
Total						714,314	347,019	335,533	682,552	22,569	0	347,019	0	7,571	712,692	99.8%	48.7%	48.6%



Terrestrial Biodiversity Review

