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Ransome, Simon – DSE (Land Victoria), East Melbourne, Victoria.

Robinson, Geoff – North East CMA, Wodonga, Victoria.

7. References

7.3 Acronyms

ABS	Australian Bureau of Statistics
Bonn (CMS)	Convention on the Conservation of Migratory Species of Wild Animals (Bonn Convention)
BAP	Biodiversity Action Planning
BE	Bulk Entitlements
BMP	Best management practice
BNA	Bioregional Network Analysis
CAMBA	China–Australia Migratory Bird Agreement
CAR	Comprehensive Adequate and Representative Reserve system
CFA	Country Fire Authority
CMA	Catchment Management Authority
CVA	Conservation Volunteers Australia
DPI	Department of Primary Industries
DSE	Department of Sustainability and Environment
ECC	Environment Conservation Council
EMS	Environmental Management System
EPBC	Environmental Protection & Biodiversity Conservation
ESAI	Ecologically Sustainable Agriculture Initiative
EVC	Ecological Vegetation Class
FFG	Flora & Fauna Guarantee
FMA	Forest Management Area
FMP	Forest Management Plan
IBRA	Interim Biogeographic Regionalisation for Australia
ISC	Index of Stream Condition
JAMBA	Japan–Australia Migratory Bird Agreement
LCC	Land Conservation Council
LGA	Local Government Authority
MSS	Municipal Strategic Statement
NRE	Department of Natural Resources and Environment (former DSE)
NVP	Native Vegetation Plan
PV	Parks Victoria
RFA	Regional Forest Agreement
SMP	Salinity Management Plan
SPZ	Special Protection Zone
VEAC	Victorian Environment Assessment Council

8. Acknowledgments

8. Acknowledgments

- The general format and bioregional content of this Plan is extensively based upon earlier Landscape Zone Plans prepared in Victoria by various authors with guidance and assistance from Christie Boyle, Kim Lowe and Heather Anderson (DSE) and from relevant CMA Biodiversity Managers.
- Information provided on the conservation status and ecological requirements of orchids occurring in the Zone was drawn from Backhouse & Jeanes (1995), but for brevity the source is not referenced at every point of use.
- Similarly, detailed descriptions of Ecological Vegetation Classes occurring in the Zone were heavily sourced from the report of the North East Comprehensive Regional Assessment—Biodiversity component (CRA) (Commonwealth of Australia 1998), and from North East Native Vegetation Plan (NECMA 2003) and are not always referenced in the asset summary.
- Geoff Robinson and Emmo Willinck (North East CMA) provided administrative and technical guidance during the preparation of this Plan.
- Kim Lowe (DSE) provided policy advice and ensured the necessary DSE logistic support throughout the Plan preparations.
- Christie Boyle and Heather Anderson (DSE) prepared high-quality map products from the DSE GIS database.
- Alison Oates (DSE Heidelberg) provide helpful advice on descriptions of Ecological Vegetation Classes not covered in the above source.
- Funding for the project was provided by Department of Sustainability and Environment and the Natural Heritage Trust.
- The zone-specific content of this Landscape Zone Plan (in particular, chapter 6) and the overall document were compiled by Leigh Ahern (Consultant, *Nature Scope* Pty Ltd, Yarra Glen).

9. Appendices

Appendix 1a. Bioregional Network Analysis

The background information on local management requirements of threatened taxa for this Bioregional Network Analysis (BNA) is drawn from the knowledge and experience of DSE natural resource managers, coordinated through Bioregional Networks within the Department. During 1999, the Bioregional Networks carried out a "desk-top" analysis of threatened species for all terrestrial bioregions in the State (Lowe et al. 2000).

BNA occurrence and risk ranking values have been determined for selected threatened taxa (see box) during BNA workshops run within the former NRE Regions. Lower-threat taxa may not have been ranked due to lack of time or inadequate local knowledge of the taxon.

BNA ranking values provide a simple means of apportioning bioregional priorities for management actions to benefit threatened taxa. These rankings are shown after each taxon in the *threatened biodiversity assets* box of each *asset summary* (see companion volumes), where the threatened taxa are listed in ranked order. Taxa with lower rankings for the particular land tenure type are so indicated by being assigned lesser response levels or being *unranked*.

The bioregional status and ranking (required response level) for each taxon is determined through five steps:

- **Occurrence in the bioregion.** Estimating the percentage of the State population which occurs within the bioregion (based on records on the former NRE flora and fauna databases).
- **Occurrence in different land tenures.** Estimating the percentage occurrence in each land tenure in the bioregion (based on the databases plus local knowledge and expertise).
- **Occurrence ranking** Allocating a ranking (1, 2, 3 or 4) for each parcel (see box), based on the importance of its contribution to the overall occurrence of the parcel within the state.
- **Risk ranking.** Estimating a risk ranking (A, B or C) for each parcel, based on the statewide conservation status of the taxon and its estimated population trend in this parcel.
- **Priority level.** Allocating an *expected response* level for action ie 1 (highest priority) to 4 (lower priority) for each parcel based on the combination of the Occurrence and Risk ranking. Guidance as to the type of response that is required at each of the expected response levels.

DEFINITIONS

Taxon:

typically a *species*, but it may sometimes be a *unique form* of a species, or a closely related *group* of species.

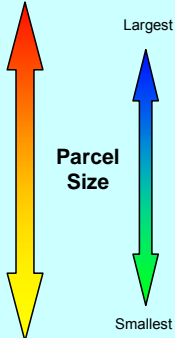
Parcel:

defined as the occurrence of a taxon on a particular land tenure—for example, a home range of a rare species which covered a park and adjacent private land would comprise two parcels.

Appendix 1b. Guidelines for Bioregional Network Analysis

CRITERIA

Parcel = % State (Species, Bioregion, Tenure)
= Size and Risk

		More Concern ←————→ Less Concern Risk In Bioregion		
		Cr En Vu ↓ ↓ → ? Parcels > 50%	En Vu ↑ → ? Insuff. Known Data Deficient	Vu ↑ Rare Depleted Near Threatened
More Important  Parcel Size Largest Smallest Less Important	Top 50% of the States Population	Full Commitment	Substantive Participation	Planning Awareness / Opportunistic Action
	Middle 25%	Substantive Participation	Planning Awareness / Opportunistic Action	Planning Awareness / Watching Brief
	Lowest 25%	Substantive Participation	Planning Awareness / Watching Brief	Planning Awareness / Watching Brief
	Tiny Parcels	Planning Awareness / Opportunistic Action	Planning Awareness / Watching Brief	Planning Awareness / Watching Brief

RESPONSE LEVELS

Planning

Planning Awareness / Watching Brief	- ensure that known occurrences are specifically catered for by planning zones and/or by environment assessment processes for development.
Planning Awareness / Opportunistic Action	- as above plus, ensure that management requirements are explicitly described where Forest Management Plans, Regional Vegetation Plans and Environment Action Plans are prepared.
Substantive Participation	- all above plus, participate in preparation of Action Statements / Recovery Plans (where they do not already exist).
Full Commitment	- all above plus, participate in finalisation of Action Statements / Recovery Plans.

Inventory / Monitoring

Planning Awareness / Watching Brief	- incorporate data from <i>ad hoc</i> observations.
Planning Awareness / Opportunistic Action	- as above plus, locate and confirm presence of known records and/or conduct targeted survey to ensure adequate coverage of occurrences.
Substantive Participation	- all above plus, initiate or continue surveillance monitoring of appropriate selection of populations.
Full Commitment	- lead substantial implementation of inventory / monitoring requirements from published or final draft Action Statements / Recovery Plans, or (if these documents do not exist) of all of the above.

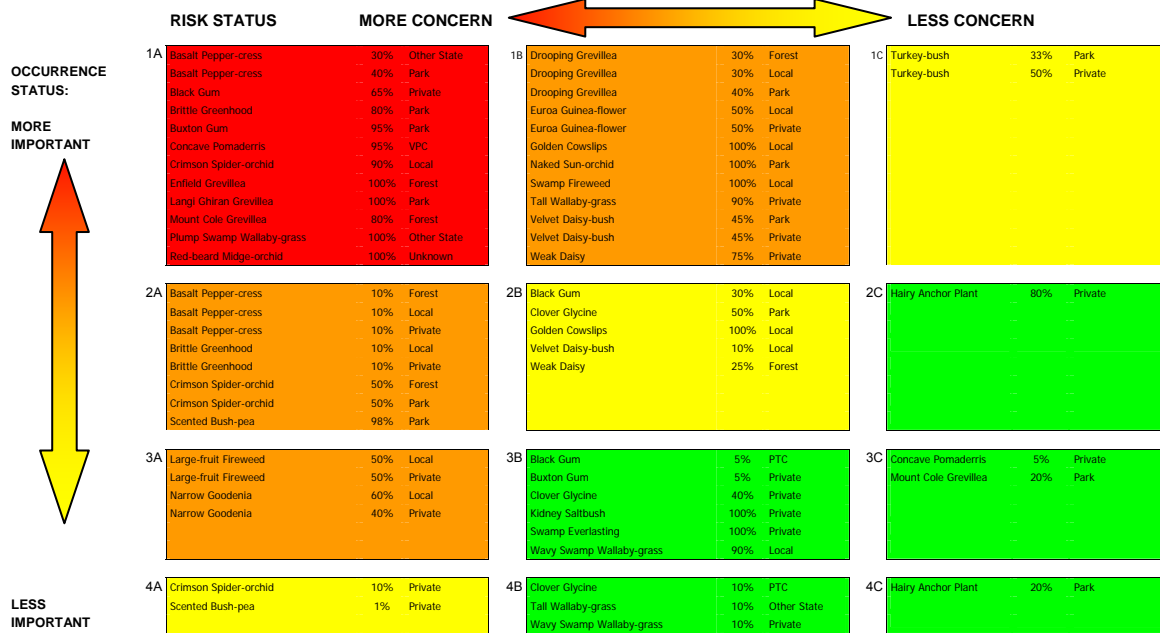
On-ground Management

Planning Awareness / Watching Brief	- no priority actions within 3 year horizon
Planning Awareness / Opportunistic Action	- facilitate progressive implementation of critical actions as external funding and partnership opportunities arise
Substantive Participation	- ensure progressive implementation of relevant actions from published or final draft Action Statements / Recovery Plans, or (if these documents do not exist) of all critical and most important actions identified through discussions in Bioregional Networks
Full Commitment	- lead substantial implementation of relevant actions from published or final draft Action Statements / Recovery Plans, or (if these documents do not exist) of all critical and most important actions identified through discussions in Bioregional Networks

Research

Planning Awareness / Watching Brief	- no priority actions within 3 year horizon
Planning Awareness / Opportunistic Action	- facilitate progressive implementation of critical actions as external funding and partnership opportunities arise
Substantive Participation	- ensure progressive implementation of relevant actions from published or final draft Action Statements / Recovery Plans, or (if these documents do not exist) of all critical actions identified through discussions in Bioregional Networks
Full Commitment	- lead substantial implementation of relevant actions from published or final draft Action Statements / Recovery Plans, or (if these documents do not exist) of all critical and selected important actions identified through discussions in Bioregional Networks

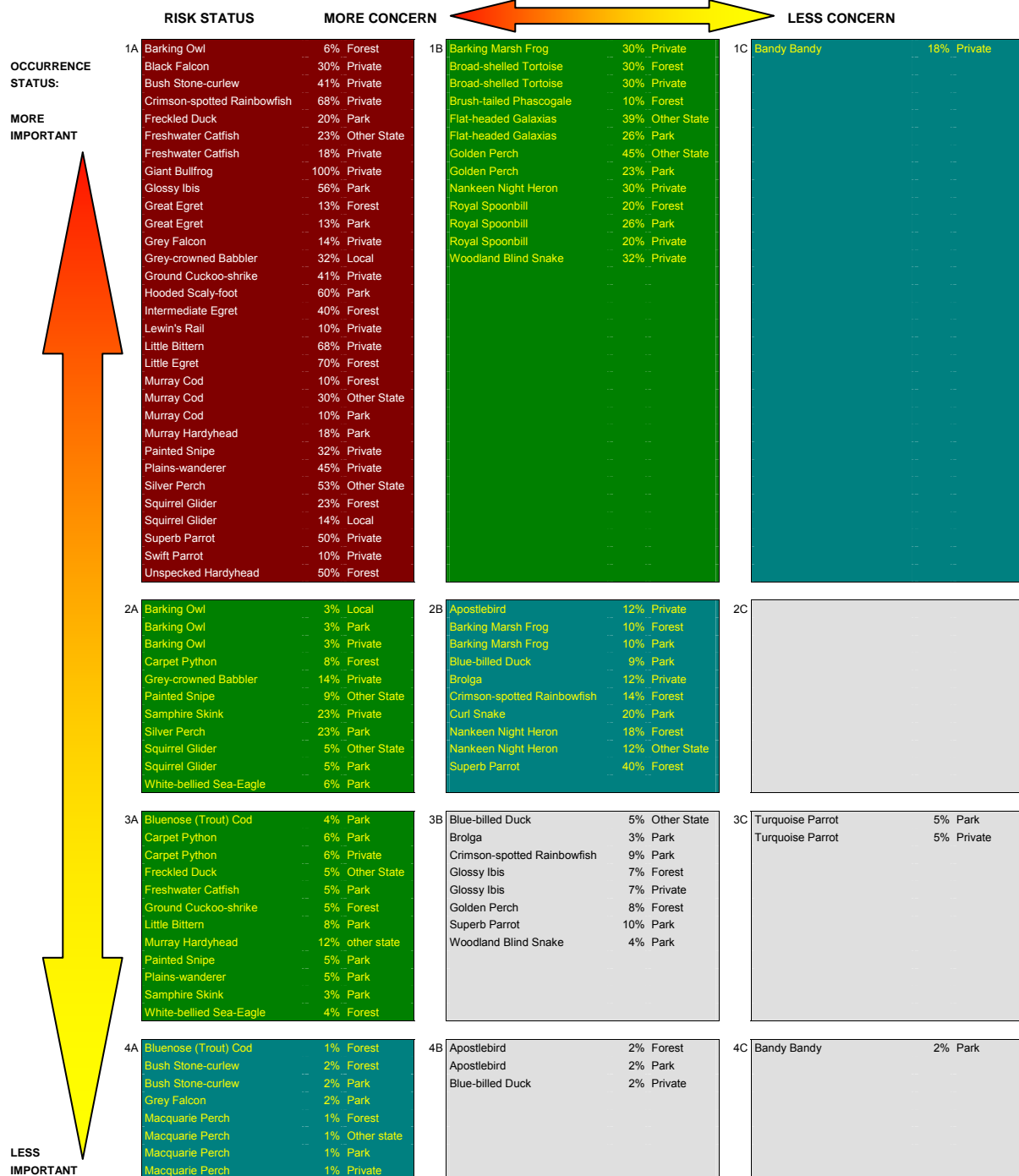
Appendix 1c. Bioregional Network Analysis priority/risk rankings for threatened flora in Central Victorian Uplands bioregion



Legend

1A	Full Commitment
1B, 2A, 3A	Substantive Participation
1C, 2B, 4A	Planning Awareness / Opportunistic Action
2C, 3B, 3C, 4B, 4C	Planning Awareness / Watching Brief

Appendix 1f. Bioregional Network Analysis priority/risk rankings for threatened fauna in Victorian Riverina bioregion



Legend

1A	Full Commitment
1B, 2A, 3A	Substantive Participation
1C, 2B, 4A	Planning Awareness / Opportunistic Action
2C, 3B, 3C, 4B, 4C	Planning Awareness / Watching Brief

Appendix 2a. Details of EVCs in Central Victorian Uplands bioregion

Ecological Vegetation Class Description	Pre1750 Area (ha)	Total Extant Area (ha)	Conservation Reserves (ha)	Forest Special Protection Zone (ha)	Other Public land (ha)	Private (ha)	Unknown (ha)	Extant/Pre 1750 (ha)	Total Conservation Reserves (ha)	Conservation Reserves/Pre 1750 (%)	Total Conservation Reserves/Extant (%)	EVC Bior Cons Status	Ecological Vegetation Class group
Alluvial Terraces Herb-rich Woodland	8135	1102	113	325	52	596	17	14%	438	1%	40%	E	Herb-rich Woodlands - Alluvial terraces and/or creeklines
Blackthorn Scrub	103	27	0	0	0	27	0	26%	0	0%	0%	R	Rocky outcrop or escarpment Scrubs - Rocky outcrop or escarpment Scrubs
Box Ironbark Forest	19104	4411	1100	88	390	2833	0	23%	1188	6%	27%	V	Box Ironbark Forests or dry / lower fertility Woodlands
Clay Heathland	12	8	0	0	0	8	0	70%	0	0%	0%	V	Heathlands - Not well-drained
Creekline Grassy Woodland	5511	451	9	1	139	292	10	8%	10	0%	2%	E	Riverine Grassy Woodlands or Forests - Creekline and/or swampy
Creekline Herb-rich Woodland	7561	2479	456	388	189	1429	17	33%	844	6%	34%	V	Herb-rich Woodlands - Alluvial terraces and/or creeklines
Damp Forest	3123	2815	133	552	1440	690	0	90%	685	4%	24%	LC	Wet or Damp Forests - Damp
Damp Sands Herb-rich Woodland	9695	1059	259	52	52	692	3	11%	312	3%	29%	E	Herb-rich Woodlands - Damp sands
Floodplain Riparian Woodland	25355	2065	956	0	454	640	16	8%	956	4%	46%	E	Riverine Grassy Woodlands or Forests - Creekline and/or swampy
Granitic Hills Woodland	10674	1687	339	0	237	1109	2	16%	339	3%	20%	V	Box Ironbark Forests or dry / lower fertility Woodlands
Grassy Dry Forest	223547	95470	17294	11779	22055	44163	178	43%	29073	8%	30%	D	Dry Forests - Exposed and/or higher altitude
Grassy Forest	10080	3163	0	58	82	3021	2	31%	58	0%	2%	V	Dry Forests - Sheltered and/or higher altitude
Grassy Woodland	136678	4835	205	17	94	4503	16	4%	222	0%	5%	E	Lower Slopes or Hills Woodlands - Grassy
Heathy Dry Forest	119778	71640	16848	8829	19381	26099	482	60%	25677	14%	36%	LC	Dry Forests - Exposed and/or higher altitude
Heathy Woodland	5503	1828	293	235	342	931	27	33%	527	5%	29%	D	Heathy Woodlands - Dry and/or better drained
Herb-rich Foothill Forest	148601	63164	6144	7733	18662	30386	238	43%	13877	4%	22%	D	Dry Forests - Sheltered and/or higher altitude
Hillcrest Herb-rich Woodland	39	17	2	0	0	15	0	44%	2	5%	11%	D	Lower Slopes or Hills Woodlands - Herb-rich
Hills Herb-rich Woodland	18406	4685	1380	142	461	2701	0	25%	1523	7%	33%	V	Lower Slopes or Hills Woodlands - Herb-rich
Lowland Forest	4509	2986	1065	131	105	1682	4	66%	1195	24%	40%	LC	Lowland Forests
Montane Grassy Woodland	11	11	0	0	11	0	0	100%	0	0%	0%	V	Montane Grasslands, Shrublands or Woodlands -
Plains Grassland	511	13	0	0	0	13	0	2%	0	0%	0%	E	Grasslands
Plains Grassy Wetland	237	39	0	0	34	5	0	16%	0	0%	0%	E	Wetlands - Freshwater
Plains Grassy Woodland	110762	4514	715	264	1040	2479	15	4%	980	1%	22%	E	Plains Grassy Woodlands or Forests - Freely-draining
Plains Sedgy Wetland	238	35	8	0	17	10	0	15%	8	3%	24%	E	Wetlands - Freshwater

Appendix 2a. Details of EVCs in Central Victorian Uplands bioregion (contd.)

Ecological Vegetation Class Description	Pre1750 Area (ha)	Total Extant Area (ha)	Conservation Reserves (ha)	Forest Special Protection Zone (ha)	Other Public land (ha)	Private (ha)	Unknown (ha)	Extant/Pre 1750 (ha)	Total Conservation Reserves (ha)	Conservation Reserves/Pre 1750 (%)	Total Conservation Reserves/Extant (%)	EVC Bior Cons Status	Ecological Vegetation Class group
Red Gum Wetland	357	69	0	0	1	69	0	19%	0	0%	0%	E	Wetlands - Freshwater
Riparian Forest	5156	1986	294	657	405	606	24	39%	951	6%	48%	V	Riparian Forests or Woodlands - Riparian Forests or Woodlands
Riparian Scrub	22	3	0	0	0	3	0	12%	0	0%	0%	E	Riparian Scrubs or Swampy Shrubs & Woodlands -
Riparian Shrubland	478	193	168	0	0	25	0	40%	168	35%	87%	E	Riparian Scrubs or Swampy Shrubs & Woodlands
Riparian Woodland	1675	231	0	0	13	214	4	14%	0	0%	0%	E	Riparian Forests or Woodlands - Riparian Forests or Woodlands
Riverine Escarpment Scrub	1773	51	34	0	0	17	0	3%	34	2%	67%	E	Rocky outcrop or escarpment Scrubs - Rocky outcrop or escarpment Scrubs
Rocky Chenopod Woodland	1669	489	273	0	22	195	0	29%	273	16%	56%	V	Box Ironbark Forests or dry / lower fertility Woodlands
Rocky Outcrop Shrubland	65	1	0	0	0	1	0	2%	0	0%	0%	LC	Rocky outcrop or escarpment Scrubs - Rocky outcrop or escarpment Scrubs
Sand Forest	53	25	0	0	0	25	0	47%	0	0%	0%	E	Heathy Woodlands - Dry and/or better drained
Sand Heathland	26	26	26	0	0	0	0	100%	26	100%	100%	LC	Heathlands -Sandy and/or well-drained
Scoria Cone Woodland	1121	197	0	0	0	197	0	18%	0	0%	0%	E	Lower Slopes or Hills Woodlands - Grassy
Seasonally-inundated Shrubby Woodland	11	11	11	0	0	0	0	100%	11	100%	100%	D	Lower Slopes or Hills Woodlands - Seasonally inundated and/or shrubby
Sedge Wetland	9	9	0	0	9	0	0	100%	0	0%	0%	V	Wetlands - Freshwater
Sedgy Riparian Woodland	3283	2216	64	557	752	838	5	67%	621	2%	28%	D	Riverine Grassy Woodlands or Forests - Creekline and/or swampy
Shallow Sands Woodland	17	5	0	0	0	5	0	31%	0	0%	0%	V	Plains Grassy Woodlands or Forests - Lunettes or beach ridges or shallow sands
Shrubby Dry Forest	10699	8366	5075	337	1347	1566	42	78%	5412	47%	65%	LC	Dry Forests - Sheltered and/or higher altitude
Shrubby Foothill Forest	38724	35611	3630	5504	22078	4375	24	92%	9134	9%	26%	LC	Dry Forests - Sheltered and/or higher altitude
Shrubby Woodland	221	221	221	0	0	0	0	100%	221	100%	100%	R	Heathy Woodlands - Dry and/or better drained
Spring-soak Woodland	38	10	0	0	0	10	0	27%	0	0%	0%	E	Lower Slopes or Hills Woodlands - Seasonally inundated and/or shrubby
Stream-bank Shrubland	3627	1434	376	92	190	752	24	40%	469	10%	33%	V	Riparian Scrubs or Swampy Shrubs & Woodlands
Swamp Scrub	775	86	0	0	15	71	0	11%	0	0%	0%	E	Riparian Scrubs or Swampy Shrubs & Woodlands
Swampy Riparian Woodland	4874	503	0	0	37	453	12	10%	0	0%	0%	E	Riparian Scrubs or Swampy Shrubs & Woodlands

Appendix 2a. Details of EVCs in Central Victorian Uplands bioregion (contd.)

Ecological Vegetation Class Description	Pre1750 Area (ha)	Total Extant Area (ha)	Conservation Reserves (ha)	Forest Special Protection Zone (ha)	Other Public land (ha)	Private (ha)	Unknown (ha)	Extant/Pre 1750 (ha)	Total Conservation Reserves (ha)	Conservation Reserves/Pre 1750 (%)	Total Conservation Reserves/Extant (%)	EVC Bior Cons Status	Ecological Vegetation Class group
Valley Grassy Forest	202633	21798	1342	2276	1127	16907	146	11%	3618	1%	17%	V	Dry Forests - Sheltered and/or higher altitude
Valley Heathy Forest	2905	315	11	0	0	298	7	11%	11	0%	4%	E	Dry Forests - Sheltered and/or higher altitude
Valley Slopes Dry Forest	14	14	14	0	0	0	0	100%	14	100%	100%	LC	Dry Forests - Sheltered and/or higher altitude
Wet Forest	532	514	40	160	234	76	4	97%	200	8%	39%	LC	Wet or Damp Forests - Wet

Appendix 2b. Details of EVCs in Victoria Riverina bioregion

EVC Description	Pre1750 Area (ha)	Total Extant Area (ha)	Conservation Reserves	SPZ	Other Public Land	Private Land	Unknown	Extant/Pre 1750 (%)	Total in Con. Reserves	Conservation Res/Extant (%)	Conservation Res/Extant (%)	Conservation Status	EVC Groupings
	(a)	(b)	(c)	(s)	(o)	(p)	(u)	(b/a)	(c+s)	(c+s)/b	(c+s)/a		
Alluvial Terraces Herb-rich Woodland	1538	8	0	0	1	6	0	1%	0	0%	0%	E	Herb-rich Woodlands - alluvial terraces and/or creeklines
Black Box Chenopod Woodland	955	24	0	0	0	24	1	3%	0	0%	0%	E	Riverine Grassy Woodlands or Forests - broader plain
Box Ironbark Forest	7926	1019	152	0	313	544	9	13%	152	15%	2%	V	Box Ironbark Forests or Woodlands - dry and/or lower fertility
Brackish Lake	1254	2	0	0	1	0	0	0%	0	0%	0%	X	no native vegetation
Broombush Mallee	500	2	0	0	0	2	0	0%	0	0%	0%	E	Mallee - shallow sands or sandy clay loams or gravels
Cane Grass Wetland	223	0	0	0	0	0	0	0%	0	0%	0%	X	Wetlands - freshwater
Creekline Grassy Woodland	21619	2382	287	0	903	1125	68	11%	287	12%	1%	E	Riverine Grassy Woodlands or Forests - creekline and/or swampy
Damp Sands Herb-rich Woodland	211	17	8	0	0	9	0	8%	8	46%	4%	V	Herb-rich Woodlands - damp sands
Floodplain Riparian Woodland	38377	4975	121	0	1095	3694	64	13%	121	2%	0%	V	Riverine Grassy Woodlands or Forests - creekline and/or swampy
Granitic Hills Woodland	368	23	6	0	2	15	0	6%	6	25%	2%	V	Box Ironbark Forests or Woodlands - dry and/or lower fertility
Grassy Dry Forest	1088	194	17	3	0	174	0	18%	20	10%	2%	D	Dry Forests - exposed and/or lower altitude
Grassy Woodland	43323	1179	100	0	137	928	13	3%	100	8%	0%	E	Lower Slopes or Hills Woodlands - grassy
Heathy Dry Forest	219	29	16	0	2	10	0	13%	16	57%	7%	LC	Dry Forests - exposed and/or lower altitude
Herb-rich Foothill Forest	131	31	2	0	3	26	0	24%	2	5%	1%	D	Dry Forests - sheltered and/or higher altitude
Lagoon Wetland	65	10	0	0	0	10	0	16%	0	0%	0%	E	Wetlands - freshwater
Lignum Wetland	5664	267	0	0	29	234	4	5%	0	0%	0%	E	Wetlands - freshwater
Pine Box Woodland	9519	90	0	0	0	90	0	1%	0	0%	0%	E	Plains Grassy Woodlands or Forests - lunettes or beach ridges or shallow sands
Plains Grassland	169806	557	2	0	22	528	6	0%	2	0%	0%	E	Grasslands
Plains Grassy Wetland	6989	225	7	0	8	208	2	3%	7	3%	0%	E	Wetlands - freshwater
Plains Grassy Woodland	860750	7857	367	0	807	6592	92	1%	367	5%	0%	E	Plains Grassy Woodlands or Forests - freely-draining
Red Gum Wetland	4484	666	211	0	9	445	0	15%	211	32%	5%	E	Wetlands - freshwater
Reed Swamp	3	0	0	0	0	0	0	0%	0	0%	0%	V	Wetlands - freshwater
Riparian Forest	63	7	0	0	0	7	0	11%	0	0%	0%	V	Riparian Forests or Woodlands
Riparian Shrubland	4	0	0	0	0	0	0	0%	0	0%	0%	E	Riparian and/or Swampy Scrubs or Woodlands
Riparian Woodland	344	7	0	0	0	7	0	2%	0	0%	0%	E	Riparian Forests or Woodlands
Riverine Escarpment Scrub	19	0	0	0	0	0	0	0%	0	0%	0%	E	Rocky outcrop or escarpment Scrubs
Sand Ridge Woodland	1124	117	13	0	29	70	5	10%	13	11%	1%	E	Plains Grassy Woodlands or Forests - lunettes or beach ridges or shallow sands
Shrubby Dry Forest	9	4	0	0	1	3	0	42%	0	0%	0%	LC	Dry Forests - sheltered and/or higher altitude
Spring-soak Woodland	5	0	0	0	0	0	0	0%	0	0%	0%	X	Lower Slopes or Hills Woodlands - seasonally inundated
Swampy Riparian Woodland	6	0	0	0	0	0	0	0%	0	0%	0%	E	Riparian and/or Swampy Scrubs or Woodlands
Valley Grassy Forest	2809	76	0	6	0	70	0	3%	6	8%	0%	E	Dry Forests - sheltered and/or higher altitude
Valley Heathy Forest	96	1	0	0	0	1	0	1%	0	0%	0%	E	Dry Forests - sheltered and/or higher altitude

Appendix 2b. Details of EVCs in Victoria Riverina bioregion (contd.)

EVC Description	Pre 1750 Area (ha)	Total Extant Area (ha)	Conservation Reserves	SPZ	Other Public Land	Private Land	Unknown	Extant/Pre 1750 (%)	Total in Con. Reserves	Conservation Res/Extant (%)	Conservation Res/Extant (%)	Conservation Status	EVC Groupings
Wetland Formation*	30326	1128	363	0	28	737	0	4%	363	32%	1%	E	Wetlands - freshwater
TOTAL	1209817	20897	1671	9	3394	15560	263		1681				

NB: * Wetland formation is not an EVC. These figures do not include Complex map units.

Appendix 3a. Current threatened flora in Central Victorian Uplands bioregion

See Appendix 4 for abbreviations used

Common Name	Latin Name	Australian Status	Victorian Status	FFG Act	Recovery Plan	Action Statement No.	BNA Unassessed	Species No
Ausfeld's Wattle	<i>Acacia ausfeldii</i>		v	X			Un	13
Adamson's Blown-grass	<i>Lachnagrostis adamsonii</i>	End	v	L			Un	148
Annual Buttons	<i>Leptorhynchos scaber</i>		e	L			Un	1944
Austral Moonwort	<i>Botrychium australe</i>		v				Un	445
Austral Toad-flax	<i>Thesium australe</i>	Vul	v	L		56	Un	3389
Bacchus Marsh Varnish Wattle	<i>Acacia verniciflua (Bacchus Marsh variant)</i>		v				Un	5136
Basalt Peppercross	<i>Lepidium hyssopifolium</i>	End	e	L				1903
Ben Major Grevillea	<i>Grevillea floripendula</i>	Vul	v	L				1535
Bent-grass	<i>Deyeuxia imbricata</i>		v				Un	1010
Black Gum	<i>Eucalyptus aggregata</i>		e	L		84		1244
Brittle Greenhood	<i>Pterostylis truncata</i>		e	L		63		2821
Button Wrinklewort	<i>Rutidosis leptorhynchoides</i>	End	e	L	Y	28	Un	2982
Buxton Gum	<i>Eucalyptus crenulata</i>	End	e	L		1		1265
Clover Glycine	<i>Glycine latrobeana</i>	Vul	v	L				1456
Common Fringe-sedge	<i>Fimbristylis dichotoma</i>		v				Un	1368
Concave Pomaderris	<i>Pomaderris subplicata</i>	Vul	v	L		81		4532
Crimson Spider-orchid	<i>Arachnorchis concolor</i>	Vul	e	L		143		4347
Crimson Sun-orchid	<i>Thelymitra X macmillanii</i>		v				Un	3377
Dookie Daisy	<i>Brachyscome gracilis</i>		v	L			Un	459
Enfield Grevillea	<i>Grevillea bedgoodiana</i>	Vul	v					3743
Euroa Guinea-flower	<i>Hibbertia humifusa ssp. erigens</i>	Vul	v	L				5083
Fine Fringe-moss	<i>Distichium capillaceum</i>		v				Un	6217
Flat Spike-sedge	<i>Eleocharis plana</i>		v				Un	1144
Fragrant Leek-orchid	<i>Prasophyllum suaveolens</i>	End	e	L		147	Un	4567
Golden Cowslips	<i>Diuris behrii</i>		v					1061
Grampians Bitter-pea	<i>Daviesia laevis</i>	Vul	v				Un	4423
Grey Rice-flower	<i>Pimelea treyvaudii</i>		v				Un	2534
Langi Ghiran Grevillea	<i>Grevillea montis-cole ssp. brevistyla</i>	Vul	v					4534
Lanky Buttons	<i>Leptorhynchos elongatus</i>		e				Un	1941
Large-fruit Fireweed	<i>Senecio macrocarpus</i>	Vul	e	L		68		3116
Lima Stringybark	<i>Eucalyptus alligatrix ssp.</i>	Vul	e				Un	4685
Magnificent Spider-orchid	<i>Arachnorchis magnifica</i>		x	L			Un	4349
Maroon Leek-orchid	<i>Prasophyllum frenchii</i>	End	e	L		154	Un	2709
Matted Flax-lily	<i>Dianella amoena</i>	End	e				Un	5084
Mauve-tuft Sun-orchid	<i>Thelymitra malvina</i>		v				Un	3374
Melbourne Yellow-gum	<i>Eucalyptus leucoxydon ssp.</i>		v	X			Un	4484
Mentone Greenhood	<i>Pterostylis X toveyana</i>		v				Un	2820
Mountain Swainson-pea	<i>Swainsona recta</i>	End	e	L			Un	3326
Mt Samaria Guinea-flower	<i>Hibbertia sp. 1 (Eastern Highlands)</i>		v				Un	5670
Naked Sun-orchid	<i>Thelymitra circumsepta</i>		v					3383
Narrow Goodenia	<i>Goodenia macbarronii</i>	Vul	v	L		72		1513
Plains Yam-daisy	<i>Microseris sp. 1</i>		v				Un	4657
Plump Swamp Wallaby-grass	<i>Amphibromus pithogastrus</i>		e	L		109		3624
Purple Diuris	<i>Diuris punctata var. punctata</i>		v	L			Un	1084
Purple Eyebright	<i>Euphrasia collina ssp. speciosa</i>		x				Un	4470
Rough Eyebright	<i>Euphrasia scabra</i>		e	L		10	Un	1343

Appendix 3a. Current threatened flora in Central Victorian Uplands bioregion (contd.)

Common Name	Latin Name	Australian Status	Victorian Status	FFG Act	Recovery Plan	Action Statement No.	BNA Unassessed	Species No
Scented Bush-pea	<i>Pultenaea graveolens</i>		v	L				2849
Small Milkwort	<i>Comesperma polygaloides</i>		v	L		96	Un	798
Soft Sunray	<i>Leucochrysum molle</i>		v				Un	1647
Southern Shepherd's Purse	<i>Ballantinia antipoda</i>	End	e	L	Y	102	Un	359
Spiny Rice-flower	<i>Pimelea spinescens ssp.</i>	Vul	e				Un	4823
Spotted Gum	<i>Corymbia maculata</i>		v				Un	1295
Stiff Groundsel	<i>Senecio behrianus</i>	End	e	L	Y	12	Un	3101
Sunshine Diuris	<i>Diuris fragrantissima</i>	End	e	L	Y	50	Un	4414
Swamp Diuris	<i>Diuris palustris</i>		v	L			Un	1082
Tough Scurf-pea	<i>Cullen tenax</i>		e	L			Un	2776
Trailing Hop-bush	<i>Dodonaea procumbens</i>	Vul	v				Un	1090
Velvet Daisy-bush	<i>Olearia pannosa ssp.</i>		v	L				2317
Weak Daisy	<i>Brachyscome debilis</i>		v				Un	454
Western Rat-tail Grass	<i>Sporobolus creber</i>		v				Un	3228
Winter Sun-orchid	<i>Thelymitra hiemalis</i>		e	L		135	Un	5006
Woodland Leek-orchid	<i>Prasophyllum sp. aff. validum</i>	Vul	e				Un	4067

Appendix 3b. Current threatened fauna in Central Victorian Uplands bioregion

See Appendix 4 for abbreviations used

Common Name	Latin Name	Aust Status	Vict Status	FFG Act	Recovery Plan	Action Statement No.	BNA	Unassessed	Species No.
Australasian Bittern	<i>Botaurus poiciloptilus</i>		EN					Un	197
Australasian Shoveler	<i>Anas rhynchos</i>		VU					Un	212
Australian Bustard	<i>Ardeotis australis</i>		CR	L				Un	176
Baillon's Crake	<i>Porzana pusilla palustris</i>		VU					Un	50
Barking Owl	<i>Ninox connivens connivens</i>		EN	L		116			246
Black Falcon	<i>Falco subniger</i>		VU					Un	238
Blue-billed Duck	<i>Oxyura australis</i>		EN	L				Un	216
Brolga	<i>Grus rubicunda</i>		VU	L		119		Un	177
Brush-tailed Phascogale	<i>Phascogale tapoatafa tapoatafa</i>		VU	L		79			1017
Bullant	<i>Myrmecia sp. 17</i>		Vul	L				Un	5011
Bush Stone-curlew	<i>Burhinus grallarius</i>		EN	L		78		Un	174
Chestnut-rumped Heathwren	<i>Hylacola pyrrhopygia</i>		VU					Un	498
Common Bent-wing Bat (eastern)	<i>Miniopterus schreibersii</i>	CD	VU	L					1341
Common Dunnart	<i>Sminthopsis murina murina</i>		VU						1061
Damselfly	<i>Hemiphysbia mirabilis</i>		Vul	L		46			5002
Diamond Firetail	<i>Stagonopleura guttata</i>		VU					Un	652
Eastern Barred Bandicoot	<i>Perameles gunnii un-named</i>	End	CR	L	Y	4		Un	1098
Eastern Bettong	<i>Bettongia gaimardi gaimardi</i>		XT	L		14		Un	1182
Eastern Bristlebird	<i>Dasyornis brachypterus</i>	End	EN	L		89		Un	519
Eastern Horseshoe Bat	<i>Rhinolophus megaphyllus</i>		VU	L					1303
Eastern Quoll	<i>Dasyurus viverrinus</i>		RX	L		14		Un	1009
Fairy Tern	<i>Sterna nereis nereis</i>		EN	L				Un	118
Freckled Duck	<i>Stictonetta naevosa</i>		EN	L		105		Un	214
Golden Perch	<i>Macquaria ambigua</i>		VU					Un	4095
Golden Sun Moth	<i>Synemon plana</i>	CE	End	L		106			5021
Great Egret	<i>Ardea alba</i>		VU	L		120		Un	187
Grey Goshawk	<i>Accipiter novaehollandiae</i>		VU						220
Grey-crowned Babbler	<i>Pomatostomus temporalis</i>		EN	L		34		Un	443
Grey-headed Flying-fox	<i>Pteropus poliocephalus</i>	Vul	VU					Un	1280
Ground Cuckoo-shrike	<i>Coracina maxima</i>		VU	L				Un	423
Growling Grass Frog	<i>Litoria raniformis</i>		Vul	EN				Un	3207
Gull-billed Tern	<i>Sterna nilotica macrotarsa</i>		EN					Un	111
Hardhead	<i>Aythya australis</i>		VU					Un	215
Intermediate Egret	<i>Ardea intermedia</i>		CR	L		120		Un	186
King Quail	<i>Coturnix chinensis victoriae</i>		CR					Un	12
Lace Goanna	<i>Varanus varius</i>		VU					Un	2283
Leadbeater's Possum	<i>Gymnobelideus leadbeateri</i>	End	EN	L	Y	62		Un	1141
Lewin's Rail	<i>Rallus pectoralis pectoralis</i>		VU					Un	45
Little Bittern	<i>Ixobrychus minutus dubius</i>		EN					Un	195
Little Egret	<i>Egretta garzetta nigripes</i>		EN			120		Un	185
Little Tern	<i>Sterna albifrons sinensis</i>		VU	L		51		Un	117
Macquarie Perch	<i>Macquaria australasica</i>	End	EN	L					4096
Magpie Goose	<i>Anseranas semipalmata</i>		VU					Un	199
Major Mitchell's Cockatoo	<i>Cacatua leadbeateri leadbeateri</i>		VU	L		87		Un	270
Malleefowl	<i>Leipoa ocellata</i>	Vul	EN	L	Y	59		Un	7
Masked Owl	<i>Tyto novaehollandiae</i>		EN	L		124		Un	250
Murray Cod	<i>Maccullochella peelii</i>		EN	L					4094
Musk Duck	<i>Biziura lobata</i>		VU					Un	217
Orange-bellied Parrot	<i>Neophema chrysogaster</i>	End	CR	L	Y	43		Un	305
Painted Honeyeater	<i>Grantiella picta</i>		VU	L					598

Appendix 3b. Current threatened fauna in Central Victorian Uplands bioregion (contd.)

Common Name	Latin Name	Aust Status	Vict Status	FFG Act	Recovery Plan	Action Statement No.	BNA Unassessed	Species No.
Painted Snipe	<i>Rostratula benghalensis australis</i>		CR				Un	170
Plains-wanderer	<i>Pedionomus torquatus</i>	Vul	CR	L		66	Un	20
Powerful Owl	<i>Ninox strenua</i>		VU	L		92		248
Red-tailed Black-Cockatoo (se Aust)	<i>Calyptorhynchus banksi graptogyne</i>	End	EN	L		37	Un	264
Regent Honeyeater	<i>Xanthomyza phrygia</i>	End	CR	L	Y	41	Un	603
River Blackfish	<i>Gadopsis marmoratus</i>		CR					4127
Royal Spoonbill	<i>Platalea regia</i>		VU				Un	181
Small Ant Blue	<i>Acrodipsas myrmecophila</i>		End	L		71	Un	5007
Smoky Mouse	<i>Pseudomys fumeus</i>	End	EN				Un	1458
Sooty Owl	<i>Tyto tenebricosa tenebricosa</i>		VU	L		117	Un	253
Southern Giant-Petrel	<i>Macronectes giganteus</i>	End	VU		Y		Un	929
Speckled Warbler	<i>Chthonicola sagittata</i>		VU				Un	504
Spot-tailed Quoll	<i>Dasyurus maculatus maculatus</i>	Vul	EN	L		15	Un	1008
Square-tailed Kite	<i>Lophoictinia isura</i>		VU					230
Squirrel Glider	<i>Petaurus norfolcensis</i>		EN	L		166	Un	1137
Striped Legless Lizard	<i>Delma impar</i>	Vul	EN	L	Y	17		2159
Superb Parrot	<i>Polytelis swainsonii</i>	Vul	EN	L		33	Un	277
Swamp Skink	<i>Egernia coventryi</i>		VU				Un	2407
Swift Parrot	<i>Lathamus discolor</i>	End	EN	L	Y	169	Un	309
Trout Cod	<i>Maccullochella macquariensis</i>	End	CR	L	Y	38		4093
White-bellied Sea-Eagle	<i>Haliaeetus leucogaster</i>		VU	L		60	Un	226
White-footed Rabbit-rat	<i>Conilurus albipes</i>	Ext	XT	R		13	Un	1426

Appendix 3c. Current threatened flora in Victorian Riverina bioregion

See Appendix 4 for abbreviations used

Common name	Scientific name	Aust status	Vic Status	FFG-listed	EPBC	FFG Action Statemt.	Recovery plan	BNA Un assessed	Species number
Annual Buttons	<i>Leptorhynchus scaber</i>		e	L					1944
Ausfeld's Wattle	<i>Acacia ausfeldii</i>	R	v	X					0013
Austral Toad-flax	<i>Thesium australe</i>	V	v	L	V	56		Un	3389
Basalt Podolepis	<i>Podolepis sp. 1</i>		e					Un	4658
Beechworth Silver Stringybark	<i>Eucalyptus aff. cinerea (Beechworth)</i>		v					Un	3824
Bristly Love-grass	<i>Eragrostis setifolia</i>		v					Un	1195
Buloke Mistletoe	<i>Amyema linophylla ssp. orientale</i>		v						0217
Button Immortelle	<i>Leptorhynchus waitzia</i>		v					Un	1949
Button Rush	<i>Lipocarpa microcephala</i>		v					Un	2020
Cane Grass	<i>Eragrostis australasica</i>		v						1184
Chariot Wheels	<i>Maireana cheelii</i>	V	v		V				2099
Clover Glycine	<i>Glycine latrobeana</i>	V	v	L	V			Un	1456
Common White Sunray	<i>Rhodanthe floribunda</i>		e					Un	5296
Coolibah Grass	<i>Panicum queenslandicum var. queenslandicum</i>		e					Un	4806
Crimson Sun-orchid	<i>Thelymitra X macmillanii</i>		v					Un	3377
Dookie Daisy	<i>Brachyscome gracilis</i>		v	L				Un	0459
Downs Nutgrass	<i>Cyperus bifax</i>		v						0913
Downy Swainson-pea	<i>Swainsona swainsonioides</i>		e	L					3328
Dwarf Amaranth	<i>Amaranthus macrocarpus var. macrocarpus</i>		v					Un	0195
Dwarf Myall	<i>Acacia ancistrophylla var. lissophylla</i>		v					Un	0051
Dwarf Swainson-pea	<i>Swainsona phacoides</i>		e	N				Un	3323
Eastern Bitter-cress	<i>Cardamine microthrix</i>		v					Un	5029
Erect Peppercress	<i>Lepidium pseudopapillosum</i>	V	e	L	V			Un	1909
Euroa Guinea-flower	<i>Hibbertia humifusa ssp. erigens</i>	V	v	X	V				5083
Forest Bitter-cress	<i>Cardamine papillata</i>		v					Un	5034
Grey Billy-buttons	<i>Craspedia canens</i>		e						4643
Hoary Scurf-pea	<i>Cullen cinereum</i>		e	L				Un	2770
Hooked Needlewood	<i>Hakea tephrosperma</i>		v					Un	1572
Inland Pomaderris	<i>Pomaderris paniculosa ssp. paniculosa</i>		v					Un	3943
Jericho Wire-grass	<i>Aristida jerichoensis var. subspinulifera</i>		e					Un	4631
Jerry-jerry	<i>Ammannia multiflora</i>		v						0202
Large-fruit Fireweed	<i>Senecio macrocarpus</i>	V	e	L	V	68		Un	3116
Late-flower Flax-lily	<i>Dianella tarda</i>		v					Un	5085
Leafless Bluebush	<i>Maireana aphylla</i>		v					Un	2096
Long Eryngium	<i>Eryngium paludosum</i>		v						1238
Mauve-tuft Sun-orchid	<i>Thelymitra malvina</i>		v					Un	3374
Midlands Spider-orchid	<i>Arachnorchis sp. aff. concolor (Midlands)</i>		v						5892
Mountain Swainson-pea	<i>Swainsona recta</i>	E	e	L	E			Un	3326
Mueller Daisy	<i>Brachyscome muelleroides</i>	V	e	L	V			Un	0465
Murray Groundsel	<i>Senecio murrayanus</i>		x						3982
Myall	<i>Acacia melvillei</i>		v					Un	0058
Narrow Goodenia	<i>Goodenia macbarronii</i>	V	v	L	V	72		Un	1513
Painted Diuris	<i>Diuris tricolor</i>		e	L					5275
Pale Hickory-wattle	<i>Acacia sp. C aff. penninervis</i>		v						5881
Pale Spike-sedge	<i>Eleocharis pallens</i>		v					Un	1143

Appendix 3c. Current threatened flora in Victorian Riverina bioregion (contd.)

Common name	Scientific name	Aust status	Vic Status	FFG-listed	EPBC	FFG Action Statemt.	Recovery plan	BNA Un assessed	Species number
Pepper Grass	<i>Panicum laevinode</i>		v					Un	4808
Pin Sida	<i>Sida fibulifera</i>		v						3142
Plains Spurge	<i>Euphorbia planiticola</i>		e	L				Un	1333
Plump Windmill Grass	<i>Chloris ventricosa</i>		v					Un	0757
Purple Diuris	<i>Diuris punctata var. punctata</i>		v	L					1084
Purple Love-grass	<i>Eragrostis lacunaria</i>		v					Un	1190
Red Swainson-pea	<i>Swainsona plagiotropis</i>	V	e	X	V				3324
Ridged Water-milfoil	<i>Myriophyllum porcatum</i>	V	v	L	V				2257
Riverine Flax-lily	<i>Dianella porracea</i>		v						4266
Rough Eyebright	<i>Euphrasia scabra</i>	K	e	L		10		Un	1343
Salt Paperbark	<i>Melaleuca halmaturorum ssp. halmaturorum</i>		v	L				Un	2149
Silky Swainson-pea	<i>Swainsona sericea</i>		v	X				Un	4946
Silky Umbrella-grass	<i>Digitaria ammophila</i>		v					Un	1041
Silver Needlewood	<i>Hakea leucoptera ssp. leucoptera</i>		v					Un	1564
Silver Tea-tree	<i>Leptospermum multicaule</i>		v					Un	1960
Six-point Arrowgrass	<i>Triglochin hexagonum</i>		v					Un	3445
Slender Club-sedge	<i>Isolepis congrua</i>		v	L					1773
Slender Darling-pea	<i>Swainsona murrayana</i>	V	e	L	V				3321
Slender Love-grass	<i>Eragrostis exigua</i>		e						5252
Slender Water-milfoil	<i>Myriophyllum gracile var. lineare</i>		e	L				Un	4517
Small Scurf-pea	<i>Cullen parvum</i>	E	e	L	E	31			2773
Smooth Darling-pea	<i>Swainsona galegifolia</i>		e	L		76		Un	3992
Spiny Rice-flower	<i>Pimelea spinescens</i>		e	L				Un	3894
Spiny Rice-flower	<i>Pimelea spinescens ssp. pubiflora</i>	X	x					Un	4824
Spiny Rice-flower	<i>Pimelea spinescens ssp. spinescens</i>	V	e		V				4823
Spiny-fruit Saltbush	<i>Atriplex spinibractea</i>		e					Un	4608
Stiff Goodenia	<i>Goodenia lunata</i>		v						1506
Stiff Groundsel	<i>Senecio behrianus</i>	E	e	L	E	12	Y		3101
Straw Wallaby-grass	<i>Austrodanthonia richardsonii</i>		v					Un	0978
Striped Water-milfoil	<i>Myriophyllum striatum</i>		v	L				Un	3869
Swamp Billy-buttons	<i>Craspedia paludicola</i>		v					Un	4649
Swamp Buttercup	<i>Ranunculus undosus</i>		v						2915
Swamp Leek-orchid	<i>Prasophyllum sp. (Nagambie)</i>		e	L		168			4564
Swamp Star	<i>Hypoxis exilis</i>		v					Un	3777
Tough Scurf-pea	<i>Cullen tenax</i>		e	L					2776
Trim Flat-sedge	<i>Cyperus concinnus</i>		v					Un	0915
Turnip Copperburr	<i>Sclerolaena napiformis</i>	E	e	L	E	171			3991
Twiggy Sida	<i>Sida intricata</i>		v					Un	3143
Umbrella Grass	<i>Digitaria divaricatissima</i>		v						1045
Umbrella Wattle	<i>Acacia oswaldii</i>		v					Un	0070
Veined Peppercross	<i>Lepidium phlebopetalum</i>		e						1907
Water-shield	<i>Brasenia schreberi</i>	R	e	L					0487
Weak Daisy	<i>Brachyscome debilis</i>		v						0454
Wedge Diuris	<i>Diuris dendrobioides</i>		e	L		22			4416
Weeping Myall	<i>Acacia pendula</i>		e	L		86		Un	0073
Western Bitter-cress	<i>Cardamine lineariloba</i>		v					Un	5028
Western Rat-tail Grass	<i>Sporobolus creber</i>		v					Un	3228
Western Silver Wattle	<i>Acacia decora</i>		v					Un	0027

Appendix 3c. Current threatened flora in Victorian Riverina bioregion (contd.)

Common name	Scientific name	Aust status	Vic Status	FFG-listed	EPBC	FFG Action Statemt.	Recovery plan	BNA Un assessed	Species number
Western Water-starwort	<i>Callitriche cyclocarpa</i>	V	v	L	V			Un	0569
Winged New Holland Daisy	<i>Vittadinia pterochaeta</i>		v						3542
Winged Peppercross	<i>Lepidium monoplacoides</i>	E	e	L	E				1905
Winged Water-starwort	<i>Callitriche umbonata</i>		v						0575
Yarran Wattle	<i>Acacia omalophylla</i>		e	L					0069
Yellow-tongue Daisy	<i>Brachyscome chrysoglossa</i>		v	L					3654

NB: FFG listed taxa includes only species listed as individual species, not as part of communities.

Appendix 3d. Current threatened fauna in Victorian Riverina bioregion

See Appendix 4 for abbreviations used

Common name	Scientific name	Aust status	Vic Status	FFG-listed	EPBC	FFG Action Statement	Recovery plan	BNA Un assessed	Spp number
Apostlebird	<i>Struthidea cinerea</i>		VU	L					0675
Australasian Bittern	<i>Botaurus poiciloptilus</i>		EN	L				Un	0197
Australasian Shoveler	<i>Anas rhynchotis</i>		VU					Un	0212
Baillon's Crake	<i>Porzana pusilla</i>		VU	L				Un	0050
Barking Owl	<i>Ninox connivens</i>		EN	L					0246
Black Falcon	<i>Falco subniger</i>		EN						0238
Blue-billed Duck	<i>Oxyura australis</i>		VU	L					0216
Bluenose Cod	<i>Maccullochella macquariensis</i>	E	CR	L	E	38	Y		4093
Broad-shelled Tortoise	<i>Chelodina expansa</i>		VU						2016
Brolga	<i>Grus rubicunda</i>		VU	L					0177
Brush-tailed Phascogale	<i>Phascogale tapoatafa</i>		VU	L		79			1017
Bush Stone-curlew	<i>Burhinus grallarius</i>		EN	L		78			0174
Cape Barren Goose	<i>Cereopsis novaehollandiae</i>		VU					Un	0198
Carpet Python	<i>Morelia spilota metcalfei</i>		EN	L					2969
Caspian Tern	<i>Sterna caspia</i>		VU	L				Un	0112
Curl Snake	<i>Suta suta</i>		VU						2722
Diamond Dove	<i>Geopelia cuneata</i>		VU					Un	0031
Freckled Duck	<i>Stictonetta naevosa</i>		EN	L		105			0214
Freshwater Catfish	<i>Tandanus tandanus</i>		VU	L					4050
Glossy Black-Cockatoo	<i>Calyptorhynchus lathami</i>		VU	L				Un	0265
Glossy Ibis	<i>Plegadis falcinellus</i>		VU						0178
Golden Perch	<i>Macquaria ambigua</i>		VU						4095
Golden Sun Moth	<i>Synemon plana</i>		EN	L		106		Un	5021
Great Egret	<i>Ardea alba</i>		EN	L					0187
Greater Long-eared Bat	<i>Nyctophilus timoriensis</i>		VU					Un	1332
Grey Falcon	<i>Falco hypoleucos</i>		CR	L		83			0236
Grey-crowned Babbler	<i>Pomatostomus temporalis</i>		EN	L		34			0443
Grey-headed Flying-fox	<i>Pteropus poliocephalus</i>		VU					Un	1280
Ground Cuckoo-shrike	<i>Coracina maxima</i>		EN	L					0423
Gull-billed Tern	<i>Sterna nilotica</i>		EN	L				Un	0111
Hardhead	<i>Aythya australis</i>		VU					Un	0215
Hooded Scaly-foot	<i>Pygopus schraderi</i>		CR	L		108			2176
Intermediate Egret	<i>Ardea intermedia</i>		CR	L					0186
Lewin's Rail	<i>Rallus pectoralis</i>		EN						0045
Little Bittern	<i>Ixobrychus minutus</i>		EN	L					0195
Little Egret	<i>Egretta garzetta</i>		CR	L					0185
Macquarie Perch	<i>Macquaria australasica</i>	E	EN	L	E				4096
Magpie Goose	<i>Anseranas semipalmata</i>		EN					Un	0199
Major Mitchell's Cockatoo	<i>Cacatua leadbeateri</i>		VU	L		87		Un	0270
Masked Owl	<i>Tyto novaehollandiae</i>		EN	L				Un	0250
Murray Cod	<i>Maccullochella peelii peelii</i>		VU	L					4094
Murray Hardyhead	<i>Craterocephalus fluviatilis</i>	V	EN	L	V				4064
Musk Duck	<i>Biziura lobata</i>		VU					Un	0217
Nankeen Night Heron	<i>Nycticorax caledonicus</i>		VU						0192
Painted Honeyeater	<i>Grantiella picta</i>		VU	L				Un	0598
Painted Snipe	<i>Rostratula benghalensis</i>		EN	L					0170
Plains-wanderer	<i>Pedionomus torquatus</i>	V	EN	L	V	66			0020

Appendix 3d. Current threatened fauna in Victorian Riverina bioregion (contd.)

Common name	Scientific name	Aust status	Vic Status	FFG-listed	EPBC	FFG Action Statement	Recovery plan	BNA Un assessed	Spp number
Powerful Owl	<i>Ninox strenua</i>		EN	L		92		Un	0248
Red-backed Kingfisher	<i>Todiramphus pyrrhopygia</i>		VU					Un	0325
Red-chested Button-quail	<i>Turnix pyrrhotorax</i>		VU					Un	0019
Regent Honeyeater	<i>Xanthomyza phrygia</i>	E	CR	L	E	41	Y	Un	0603
Regent Parrot	<i>Polytelis anthopeplus</i>	V	VU	L	V			Un	0278
Royal Spoonbill	<i>Platalea regia</i>		VU						0181
Rufous Bettong	<i>Aepyprymnus rufescens</i>		EX	L		14		Un	1426
Samphire Skink	<i>Morethia adelaidensis</i>		EN	L					2525
Silver Perch	<i>Bidyanus bidyanus</i>		CR	L					4099
Speckled Warbler	<i>Chthonicola sagittata</i>		VU	L				Un	0504
Spot-tailed Quoll	<i>Dasyurus maculatus</i>	V	EN	L	V	15		Un	1008
Square-tailed Kite	<i>Lophoictinia isura</i>		EN	L				Un	0230
Squirrel Glider	<i>Petaurus norfolcensis</i>		EN	L		166			1137
Striped Legless Lizard	<i>Delma impar</i>	V	EN	L	V	17	Y	Un	2159
Superb Parrot	<i>Polytelis swainsonii</i>	V	EN	L	V	33			0277
Swift Parrot	<i>Lathamus discolor</i>	E	EN	L	E	169	Y		0309
Tasmanian Pademelon	<i>Thylogale billardierii</i>		EX	L		14			1235
Warty Bell Frog	<i>Litoria raniformis</i>	V	VU	L	V			Un	3207
White-bellied Sea-Eagle	<i>Haliaeetus leucogaster</i>		EN	L		60			0226
Woodland Blind Snake	<i>Ramphotyphlops proximus</i>		VU						2603

NB: FFG listed taxa includes only species listed as individual species, not as part of communities.

Appendix 4. Abbreviations used in threatened flora and fauna tables (Appendix 3)

	Australian Status (EA 2003 – January 2003)
X	Extinct
CE	Critically endangered
End, E	Endangered
Vul, V	Vulnerable
CD	Conservation dependant
R	Rare
K	Insufficiently known
	Victorian Flora Status (NRE 2002f)
x	Extinct
e	Endangered
v	Vulnerable
k	Insufficiently Known
	Victorian Fauna Status – Invertebrate (NRE 2002g)
End	Endangered
Vul	Vulnerable
R	Rare
	Victorian Fauna Status – Vertebrate (DSE 2003)
EX	Extinct
CR	Critically endangered
EN	Endangered
VU	Vulnerable
NT	Near threatened
DD	Data deficient
	FFG (SAC – February 2004)
L	Listed
Un	Unassessed in the BNA Analysis – 1997/8 (Vic)
	Migratory Agreements
B	Bonn Convention
C	CAMBA
J	JAMBA

Appendix 5. Other taxa referred to in text.

Common Name	Scientific Name
Flora	
Austral Bracken	<i>Pteridium esculentum</i>
Blackberry*	<i>Rubus</i> spp.
Blackwood	<i>Acacia melanoxylon</i>
Blakely's Red-gum	<i>Eucalyptus blakelyii</i>
Broad-leaved Peppermint	<i>Eucalyptus dives</i>
Buloke	<i>Allocasuarina luehmannii</i>
Burgan	<i>Kunzea ericoides</i>
Candlebark	<i>Eucalyptus rubida</i>
Cat's Claws Grevillea	<i>Grevillea alpina</i>
Common Cassinia	<i>Cassinia aculeata</i>
Common Reed	<i>Phragmites australis</i>
cypress-pine	<i>Callitris</i> spp.
Erect Guinea-flower	<i>Hibbertia riparia</i>
Eurabbie	<i>Eucalyptus globulus</i> ssp. <i>bicostata</i>
Hawthorn*	<i>Crataegus monogyna</i>
Hazel Pomaderris	<i>Pomaderris aspera</i>
Long-leaved Box	<i>Eucalyptus goniocalyx</i>
Manna Gum	<i>Eucalyptus viminalis</i>
Messmate	<i>Eucalyptus obliqua</i>
Mountain Gum	<i>Eucalyptus dalrympleana</i>
Mugga	<i>Eucalyptus sideroxylon</i>
Narrow-leaf Bitter-pea	<i>Daviesia leptophylla</i>
Narrow-leaved Peppermint	<i>Eucalyptus radiata</i>
Pomaderris species	<i>Pomaderris</i> spp.
Prickly Currant-Bush	<i>Coprosma quadrifida</i>
Prickly Tea-tree	<i>Leptospermum continentale</i>
Radiata Pine*	<i>Pinus radiata</i>
Red Box	<i>Eucalyptus polyanthemos</i>
Red Stringybark	<i>Eucalyptus macrorhyncha</i>
River Red-gum	<i>Eucalyptus camaldulensis</i>
Silver Wattle	<i>Acacia dealbata</i>
Slender Tea-tree	<i>Leptospermum brevipes</i>
St John's Wort*	<i>Hypericum perforatum</i>
Tree Violet	<i>Hymenathera dentata</i>
White Box	<i>Eucalyptus albens</i>
Willows*	<i>Salix</i> spp.
Yellow Box	<i>Eucalyptus melliodora</i>
Fauna	
Cat* (feral and domestic)	<i>Felis catus</i>
Dog* (feral and domestic)	<i>Canis familiaris familiaris</i>
Common Wombat	<i>Vomatus ursinus</i>
Black Wallaby	<i>Wallabia bicolor</i>
European Rabbit*	<i>Oryctolagus cuniculus</i>
European Wasp*	<i>Vespa germanica</i>
Red Fox*	<i>Vulpes vulpes</i>

*introduced

Appendix 6a. Management roles of land managers

Manager		Land management role
Catchment Management Authority	CMA	Integration of existing advisory mechanisms related to catchment management (especially on private land), through a Regional Catchment Strategy framework. Licensing of works on regional waterways, management of waterways, and regional drainage and floodplain management. Regional co-ordination of Waterwatch and support to Landcare.
Department of Primary Industries (formerly NRE)	DPI	Management services across Catchment & Water (Sustainable Agriculture & Land Management, Pest Plants & Animals, Sustainable Rural Development); Fire Management; and Fisheries.
Department of Sustainability and Environment (formerly NRE)	DSE	Management of natural resources, with services across Flora & Fauna (Biodiversity), Commercial Forests, Forest Management, Land Victoria (incl. Coasts & Crown Land Management), Aboriginal Affairs and Indigenous Communities & Culture, and coordination of Statutory Planning functions. Also management of local ports and infrastructure (Port Welshpool, Port Albert and Lakes Entrance) as <i>Gippsland Ports</i> .
Forests (DSE)	For	State Forest, hardwood production, eucalyptus oil production, other Forest areas and Uncommitted land
Land Victoria (DSE)	LV	Unreserved or Uncategorised Crown Land; Stone Reserves; Other Reserves & Public Land; Utilities & Survey.
Local Government Authority	LGA (Shires)	Minor road reserves, township land, Recreation Reserves, cemeteries and other public land, including through implementation of Planning Schemes and Roadside Management Plans (Local Government municipalities)
Other State agency	DOI RWA UWA VicTrk VicRds	State government managed land (other than above and below) including: Dept of Infrastructure—Infrastructure and planning Rural Water Authority—Water storage, distribution, regulation and licensing (Southern Rural Water) Urban Water Authority—Water and wastewater services to urban communities and management of specific water supply catchments (Gippsland Water, South Gippsland Water) Rail Reserve management (<i>VicTrack</i> , formerly PTC) Major road reserves (Roads Corporation as <i>VicRoads</i>) jointly with LGA.
Parks Victoria	PV	Protection of natural and cultural values across terrestrial and marine parks and the reserves network. Responsible for National and State Parks, Reference Areas, Conservation Reserves (many categories including Nature Conservation Reserves, Natural Features Reserves [incl. Stream frontages, beds & banks / Public land Water Frontage], Historic & Cultural Features Reserves and Coastal Reserves), Regional Parks, Metropolitan Parks, and Piers & Jetties.
Private	Priv	Freehold land used for rural residential, cropping, grazing, mining, hobby farming, recreation and conservation (Landholders)

Appendix 6b. Interests of stakeholders

Stakeholder		Main role or interest in land management
Indigenous Groups	IG	In Victoria, Mirimbiak Nations Aboriginal Corporation is the native title representative body, and peak advocacy group for Aboriginal people. Cultural Heritage Units address rights and interests of Aboriginal community and culture, especially with respect to consultation and decision-making where activities may affect cultural heritage.
Botanic Guardians	BG	Voluntary (DSE-coordinated) vegetation protection and monitoring on public land
Conservation Societies	CS	Local groups having advocacy and voluntary interest in conservation issues on private and public land
Conservation Volunteers Australia	CVA	On-ground conservation services on public and private land
Country Fire Authority	CFA	Prevention and suppression of fire on lands not managed by Parks Victoria or DSE
Environment Protection Authority	EPA	Protection and monitoring of land and water health, in accord with <i>Environment Protection Act 1970</i> . Controls environmental standards, especially for wastewater discharge.
Field Naturalists Clubs	FNC	Survey and monitoring of flora and fauna
Fishcare	Fc	Promoting—to recreational anglers and the broader community—responsible attitudes and practices regarding fish and the aquatic environment.
'Friends' Groups	FG	Advocacy and voluntary interest in protecting and managing public land
Good Neighbour Program	GNP	Protection of private land by controlling pest plants and animals on public land boundaries
Greening Australia Victoria	GAV	Sustainable vegetation management
Land for Wildlife	LFW	Habitat retention and enhancement on private land (jointly coordinated by DSE and Bird Observers Club of Australia)
Landcare	Lc	On-ground environmental management and revegetation in an agricultural context
Threatened Species Network	TSN	Coordination of 'friends of threatened species' groups
Trust for Nature	TFN	Protection of significant freehold bushland with covenanting (Victoria)
Victorian Apiarists Association Inc	VAA	Representation of bee-keepers and apiculture industry
Victorian Environment Assessment Council	VEAC	Victorian Government agency for public land use determinations and recommendations (formerly LCC then ECC).
Victorian Farmers Federation	VFF	Representation of farming community and co-sponsorship of Landcare
Victorian National Parks Association	VNPA	Advocacy group for improving parks and reserves system Victoria-wide
Victorian Wader Study Group	VWSG	Management of wetland habitats used by waders (birds)
Waterwatch	WW	Community-based water quality monitoring and awareness programs.
Weed and Rabbit Control Action Groups	WAG RAG	Weed and rabbit management on private land

Appendix 6c. LCC Codes and management details used in asset summaries for public land tenures in Mid King Landscape Zone

LCC Code	Other abbreviation in Asset summary	Old (LCC) land category	New land category (after ECC 1997)	Usual manager	LCC Recs
F1, F20		Softwood Production Area	Plantation	DSE For	NE 345
G1	SF	Forest Area	State Forest	DSE For	NE 345
E1	SF	Hardwood Production Area	State Forest	DSE For	NE Ben-UM
S1		Uncommitted Land	State Forest	DSE For	NE 345
none		unused road	Services & Utilities (Transport) Area	DSE LV	not included
M4		Recreation reserve	Community Use (Recreation) Area - Recreation Reserve	LGA	NE 345
J3		Recreation trail	Community Use (Recreation) Area - Recreation Trail	LGA	BI
T1		Other Reserves & Public Land	Uncategorised Public Land (Township Land)	LGA	NE 345
L1		Education Area	Community Use Area - Education Area	PV	NE 345
A2	NP	National Park	National Park	PV	NE 345
H	NFR	Bushland Reserve	Natural Features Reserves, Bushland Area	PV	NE 345
K1	NFR	Public Land Water Frontage	Natural Features Reserves, Stream Frontages, Beds & Banks	PV	NE Ben-UM
K15	NFR	Streamside Reserve	Natural Features Reserves, Streamside Area	PV	NE Ben-UM
D66	NCR	not categorised	Nature Conservation Reserve	PV	BI
none		Highway or Freeway reserve	Services & Utilities (Transport) Area	VicRds	not included
none		Railway Reserve	Services & Utilities (Transport) Area	VicTk	not included

Appendix 7. Example of threshold values based on 30% reporting rate for species in Victorian Riverina bioregion

Species with 100 or more observations from statewide analysis of Birds Australia database (source: Lowe *et al.* 2003)

Habitat Score	0 – 3 ha	3 – 10 ha	10 – 30 ha	30 – 100ha	100 – 400 ha	400+ ha
6	Swamp Harrier Black-shouldered Kite Nankeen Kestrel Golden-headed Cisticola	Purple-crowned Lorikeet			Black-chinned Honeyeater	
7	Australian Magpie Welcome Swallow Wedge-tailed Eagle Common Starling Brown Falcon Willie Wagtail Yellow-rumped Thornbill	Red-rumped Parrot Tree Martin Whistling Kite Pallid Cuckoo Fairy Martin Singing Honeyeater Yellow Thornbill	Buff-rumped Thornbill Dusky Woodswallow Little Lorikeet Weebill	Red-capped Robin White-browed Woodswallow White-browed Babbler White-winged Triller		
8	Australian Raven European Goldfinch Long-billed Corella Flame Robin Magpie-lark Crested Pigeon	Crested Shrike-tit Black-faced Cuckoo-shrike White-eared Honeyeater Red Wattlebird Restless Flycatcher Spotted Pardalote Musk Lorikeet Little Raven Galah Noisy Miner Pied Butcherbird Eastern Rosella Striated Pardalote Horsfield's Bronze-Cuckoo Tawny Frogmouth	Rainbow Bee-eater Rufous Whistler Mistletoebird Olive-backed Oriole Brown-headed Honeyeater White-winged Chough	Varied Sittella Brown Treecreeper Spiny-cheeked Honeyeater		
9	Spotted Turtle-Dove Common Blackbird Common Myna Brown Goshawk Rock Dove	Superb Fairy-wren White-plumed Honeyeater Little Wattlebird Grey Shrike-thrush Eastern Yellow Robin White-browed Scrubwren Crimson Rosella Grey Butcherbird Silvereye Common Bronzewing Laughing Kookaburra Sulphur-crested Cockatoo Yellow-faced Honeyeater	White-naped Honeyeater	Jacky Winter Peaceful Dove		

Appendix 7. Example of threshold values based on 30% reporting rate for species in Victorian Riverina bioregion (contd.)

Habitat Score	0 – 3 ha	3 – 10 ha	10 – 30 ha	30 – 100ha	100 – 400 ha	400+ ha
10		Striated Thornbill Brown Thornbill Grey Fantail Golden Whistler Red-browed Finch Pied Currawong Rainbow Lorikeet	Satin Bowerbird White-throated Treecreeper			Hooded Robin
11			Eastern Whipbird	Rufous Fantail	Diamond Firetail	
12		Scarlet Robin		Sacred Kingfisher		
Total	22	44	14	11	2	1

Appendix 8. Sources of additional information

An ever-increasing amount of information regarding the environment is becoming available via the World Wide Web (www). The general environment gateway for Victoria is <http://www.environment.vic.gov.au/>. Information provided in this document was accessed at the Web Site identified and date specified within the document.

Victorian State Government Web Sites:

Department of Sustainability and Environment (formerly Department of Natural Resources and Environment)

- Department of Sustainability and Environment Web Site: <http://www.dse.vic.gov.au>
- 'Action Statements' are available on the DSE Web Site: > Plants and Animals > Native Plants and animals > Flora and Fauna Guarantee Act > Action Statements.
- 'East Asian-Australasian Shorebird Site Information Sheets' are available on the DSE Web Site: > Parks and Reserves > Wetlands > Migratory Waterbirds > East Asian-Australasian Shorebird Site Network > Shorebird Site information sheets and Maps.
- 'Forest Management Plans' are available on the DSE Web Site: > Forestry > Publications > Forest Management Plans.
- 'Management Plans for Ramsar sites' are available on the DSE Web Site: > Parks and Reserves > Wetlands > Ramsar Wetlands > Ramsar Site Management Plans.
- 'National Forest Policy Statement' is available via the DSE Web Site: Forestry > Managing Forests > Policy and Regulation > Forest Policy and Regulation
- 'Rabbit Free Accreditation information is available on the DSE Web Site: > Land and Water Management > Land > Pest Plant & Animals > Pest Animals > Rabbits
- 'Ramsar Information Sheets' are available on the DSE Web Site: > Parks and Reserves > Wetlands > Ramsar Wetlands > Ramsar Information Sheets.

Department of Primary Industries (formerly Department of Natural Resources and Environment):

- Department of Primary Industries Web Site: <http://www.dpi.vic.gov.au>
- 'Victorian Resources Online' has an extensive range of maps and information on the East Gippsland CMA (in prep.), Port Phillip and Westernport CMA and West Gippsland CMA. Access is available through the Department of Primary Industries Web Site: > Victorian Resources Online > Regional.

Department of Infrastructure:

- Department of Infrastructure Web Site: <http://www.doi.vic.gov.au>

Catchment Management Authority:

- Goulburn Broken Catchment Management Authority Web Site: <http://www.gbcma.vic.gov.au>
- North Central Catchment Management Authority Web Site: <http://www.nccma.vic.gov.au>
- North East Catchment Management Authority Web Site: <http://www.necma.vic.gov.au>

Parks Victoria

- 'Victorian Parks Management Plans' can be accessed through Parks Victorian Web Site: <http://www.parkweb.vic.gov.au/> > Publications > Management Plans & Strategies.

Victorian Environmental Assessment Council

- Various LCC and ECC reports can be accessed through the VEAC Web Site: <http://www.veac.vic.gov.au>

Appendix 8. Sources of additional information (cont'd)

Victorian Local Government Web Site:

- Victorian Local Government Web Sites can be accessed through the Municipal Association of Victoria Web Site: <http://www.mav.asn.au> > Council Contacts.

Australian Government Web Sites:

Department of Environment and Heritage (formerly Environment Australia)

- Department of Environment and Heritage **Web Site**: <http://www.deh.gov.au/>
- 'A Directory of Important Wetlands In Australia Database' is available on the Department of Environment and Heritage Web Site: <http://www.deh.gov.au/> > Inland Waters > Wetlands > Database > Wetlands > Database Information > A Directory of Important Wetlands In Australia
- Bushcare grants are available on Department of Environment and Heritage Web Site: <http://www.deh.gov.au/> > Land Management > Natural Heritage Trust > Project List > Natural Heritage Trust Announcements 2001/2002 > Community Projects 2001 – 2002
- 'Guidelines for the Preparation of Site Nominating Documentation for the East Asian-Australasian Shorebird Site Network' is available on Department of Environment and Heritage Web Site: <http://www.deh.gov.au/> > Inland Waters > Wetlands > Publications.
- The National Land and Water Resources Audit is available on Department of Environment and Heritage Web Site: <http://www.deh.gov.au/> > Land Management > Salinity > National Land and Water Audit > Australian Natural Resources > Dryland Salinity > Dryland Salinity In Context > Victoria > (State) Victoria. (Accessed 04/07/2003).

Department of Agriculture, Fisheries and Forestry Australia:

- 'Regional Forest Agreements' are available on Department of Agriculture, Fisheries and Forestry Australia Web Site: <http://www.affa.gov.au/> > Industry Development > Regional Forest Agreements > Regions.

Natural Heritage Trust

- 'Natural Heritage Trust Overview' can be assessed on the Natural Heritage Trust Web Site, located at <http://www.nht.gov.au/> > About the Natural Heritage Trust

Other Relevant Web Sites:

Index of Stream Condition

- 'Index of Stream Condition' Web Site: <http://www.vicwaterdata.net/isc/> > Browse Index of Stream Condition > Results

Rail Trails Australia

- Railtrails for Gippsland Plains bioregion is available on the Rail Trails Web Site: <http://www.railtrails.org.au/> > Rail Trail Guide book > Included Trails > Gippsland Rail Trails

10. Maps
