



LAND CONSERVATION COUNCIL
VICTORIA

BALLARAT AREA VEGETATION

VEGETATION UNITS

Alliance	Map unit	Typical structural form at maturity	Major eucalypts in the association	Associated tree species	Common understorey species	Typical occurrences
MESSMATE-PEPPERMINT-GUM	1a	OPEN FOREST II	Snow gum		Silver wattle (<5m), Tussack grass, Mother shield fern, Austral bracken, Ridge-widgee	Mount Bugar, Lookout Hill
	2a	OPEN FOREST IV	Messmate stringybark	Brown stringybark, Blue gum, Manna gum	Dense understorey of, Blackwood (<10m), Silver wattle (<10m), Prickly moss (<5m), Common cassia (<5m), Large-leaf bush-pea (<5m), Austral bracken, Forest wire-grass	Mount Cole Range
	2b	OPEN FOREST III	Messmate stringybark, Brown stringybark, Blue gum	Manna gum, Narrow-leaf peppermint, Candlebark	Dense understorey of, Blackwood (<10m), Silver wattle (<10m), Prickly moss (<5m), Common cassia (<5m), Large-leaf bush-pea (<5m), Austral bracken, Forest wire-grass	Mount Cole Range, Mount Lonach
	2c	OPEN FOREST III	Messmate stringybark	Narrow-leaf peppermint, Candlebark	Blackwood (<10m), Silver wattle (<10m), Prickly moss (<5m), Common cassia (<5m), Narrow-leaf bush-pea (<5m), Tussack grass, Austral bracken, Common heath	Barkstead area, surrounding Moorabool Reservoirs
	2d	OPEN FOREST II	Messmate stringybark, Brown stringybark, Red stringybark, Swamp gum, Candlebark	Broad-leaf peppermint, Scent-bark, Broad-leaf peppermint, Red stringybark, Swamp gum, Candlebark	Understorey of low shrubs; Golden bush-pea (<2m), Small grass-fern, Narrow-leaf bitter-pea (<5m), Tussack grass, Austral bracken, Common heath, Myrtle wattle (<2m)	Enfield and Linton forests
	2e	OPEN FOREST II	Messmate stringybark	Narrow-leaf peppermint, Scent-bark, Broad-leaf peppermint, Candlebark, Swamp gum	Blackwood (<10m), Silver wattle (<10m), Golden bush-pea (<5m), Austral bracken, Tussack grass, Small grass-fern, Common heath	Creswick, Canadian, Ben Major, Bawford, Lal Lal and Waterloo forests
	2f	OPEN FOREST II	Messmate stringybark	Manna gum, Narrow-leaf peppermint	Moderately dense, Black wattle (<10m), Wedge-leaf hop-bush (<3m), Austral bracken, Tussack grass	Restricted areas on Mount Langi Ghiran
	2g	OPEN FOREST II	Messmate stringybark	Manna gum	Blackwood (<10m), Tussack grass, Austral bracken	Mounts Werrenheip and Bannyming
	3a	OPEN FOREST II	Broad-leaf peppermint, Scent-bark	Messmate stringybark, Messmate stringybark, Candlebark	Open understorey of, Golden bush-pea (<1m), Small grass-fern, Common heath, Narrow-leaf bitter-pea (<5m)	Areas near Snytheads, Linton and Creswick
	3b	OPEN FOREST II	Scent-bark	Narrow-leaf peppermint, Candlebark	Open understorey of, Blackwood (<10m), Black wattle (<10m), Prickly tea-tree (<2m), Silky tea-tree (<2m), Common cassia (<5m), Austral bracken, Small grass-fern, Tussack grass, Black wattle (<2m)	Small gully areas north of Happy Valley
SCENT-BARK-PEPPERMINT	3c	OPEN FOREST I	Broad-leaf peppermint	Scent-bark	Understorey of low shrubs (<1m), Austral bracken, Common heath, Prickly brown heath, Pink beard-heath	Lal Lal forest
	4a	OPEN FOREST II	Candlebark	Yellow box, Narrow-leaf peppermint	Open understorey of, Blackwood (<10m), Black wattle (<10m), Silver wattle (<10m), Tussack grass, Austral bracken, Common heath	Areas within Mount Cole, Ben Major, Bawford and Waterloo forests
	4b	OPEN FOREST II	Eucalypt, Brown stringybark, Candlebark	Narrow-leaf peppermint, Messmate stringybark	Open understorey of, Black wattle (<10m), Wedge-leaf hop-bush (<3m), Austral bracken, Tussack grass	Areas within Mount Cole forest
	4c	OPEN FOREST II / WOODLAND II	Manna gum	Narrow-leaf peppermint, Swamp gum	Blackwood (<10m), Common cassia (<5m), Chilly Burrell (<5m), Austral bracken	Remnant forests surrounding certain Ballarat Water Commissioners storage, and Lal Lal Reservoir
	4d	OPEN FOREST II	Swamp gum	Scent-bark, Narrow-leaf peppermint	Open understorey of, Blackwood (<10m), Black wattle (<10m), Prickly tea-tree (<2m), Tussack grass	Small areas in Enfield forest
	4e	OPEN FOREST II	Manna gum, Rough-barked gum	Black wattle, Messmate stringybark	Silky tea-tree, Common heath, Austral bracken	Small areas of public land near Doreel
	5a	OPEN FOREST II	Red stringybark, Broad-leaf peppermint	Scent-bark	Understorey of low shrubs (<1m tall), Hedge wattle, Small grass-fern, Tussack grass, Austral bracken, Common heath	Berrima, Staffordshire Reef forests
	5b	OPEN FOREST II	Red stringybark	Broad-leaf peppermint, Red ironbark, Yellow box, Rough-barked manna gum	Understorey of low shrubs; Golden bush-pea (<2m), Golden bush-pea (<2m), Golden bush-pea (<2m), Tussack grass	Mount Erip forest
	5c	OPEN FOREST II	Red stringybark, Blue gum	Yellow box, Messmate stringybark, Candlebark	Open - sparse, Hedge wattle (<2m), Spreading wattle (<2m), Grey everlasting (<2m), Grey everlasting (<2m), Narrow-leaf bitter-pea (<5m), Tussack grass, Common heath	Western slopes of Bugar and Ben Nevis
	5d	OPEN FOREST II	Red stringybark, Long-leaf box	Scent-bark, Yellow box, Broad-leaf peppermint, Candlebark	Sparse; Hedge wattle (<2m), Spreading wattle (<2m), Grey everlasting (<2m), Grey everlasting (<2m), Narrow-leaf bitter-pea (<5m), Tussack grass, Rock fern	Ben Major, Bawford and Waterloo forests
RED STRINGYBARK-BOX	5e	OPEN FOREST I / II	Manna gum, Red stringybark, Long-leaf box	Broad-leaf peppermint, Yellow box	Sparse - open understorey of, Black wattle (<8m), Hedge wattle (<2m), Forest wattle (<3m), Rock fern, Tussack grass	Rocky areas of Mount Langi Ghiran
	5f	OPEN FOREST I / II	Red stringybark	Red box, Yellow box, Long-leaf box, Yellow gum	Sparse and open, Golden wattle (<2m), Grey everlasting (<2m), Narrow-leaf bitter-pea (<5m), Tussack grass	Dunneworthy forest
	5g	OPEN FOREST I	Red stringybark, Long-leaf box	Red box	Sparse understorey of, Grey everlasting (<1m), Wedge-leaf hop-bush (<4m), Tussack grass, Rock fern	Northern slopes of Ben Major and Ben Nevis
	5h	OPEN FOREST I	Red stringybark, Red box	Long-leaf box	Golden wattle (<4m), Hedge wattle (<2m), Gold dust wattle (<1m), Spreading wattle (<2m), Tussack grass	Crown land north of Lexton
	5i	OPEN FOREST I	Broad-leaf peppermint	Red stringybark, Red ironbark	Sparse understorey of, Golden bush-pea (<5m), Golden bush-pea (<5m), Tussack grass, Common heath	Ridges in Mount Erip forest
	5j	OPEN FOREST I	Long-leaf box	—	Silver banksia (<5m), Yacca, Austral bracken, Hedge wattle (<4m)	Mount Langi-Ghiran area
	6a	OPEN FOREST II	Yellow gum	Yellow box, Red river gum, Scent-bark	Sparse and open, Golden wattle (<4m), Hedge wattle (<2m), Black wattle (<4m)	Dunneworthy forest
	6b	OPEN FOREST II / WOODLAND II	Grey box	Red box, Red stringybark, Long-leaf box, Yellow box, Yellow gum, Red ironbark	Sparse and open, Golden wattle (<4m), Hedge wattle (<2m), Gold dust wattle (<1m), Tussack grass	Crown land north of Lexton
	6c	OPEN FOREST II / WOODLAND II	Yellow gum	Yellow box, Red stringybark, Grey box	Open understorey of, Blackwood (<10m), Black wattle (<10m), Hedge wattle (<2m), Spreading wattle (<2m), Wedge-leaf hop-bush (<3m)	Small areas west of Ben Nevis
	6d	WOODLAND II	Yellow gum	Yellow box, Red river gum, Scent-bark	Sparse and open, Golden wattle (<4m), Hedge wattle (<2m), Black wattle (<4m)	Dunneworthy forest
GUM-BOX	6e	WOODLAND I / II	Yellow gum, Long-leaf box	Yellow box, Red stringybark	Sparse and open, Golden wattle (<4m), Hedge wattle (<2m), Black wattle (<4m)	Dunneworthy forest
	6f	WOODLAND II	Yellow box, Red river gum	Manna gum	Open understorey of, Black wattle (<10m), Black wattle (<10m), Hedge wattle (<2m), Silver banksia (<5m), Wedge-leaf hop-bush (<3m), Common heath	Flat area west of Mount Langi-Ghiran
	6g	WOODLAND II	Red river gum	Blackwood, Silver wattle	Common sedge, Bulrush, Spiny flatrush	River and creek frontages
				Pasture		Langi Lal Kai
SOFTWOOD PLANTATION	7	OPEN FOREST III	Radiata pine		Creswick, Ballarat, Sarsfield, Mount Lonach	
CLEARED LAND / GRASSLAND	8				Includes public land used for agriculture, gravel extraction and water supply; land purchased for softwood plantations; former paddocking areas. Vegetation includes native grasses and remnants of former forests, pasture species, ferns, spiny broom and blackberry.	
Wetlands	Map unit	Common aquatic plants	Common shoreline plants	Locations		
FRESH-WATER MARSHES	9a	Tall spike-rush Common water millifol Common duckweed River buttercup Floating pondweed Water ribbons Tall grass	Common spike-rush Austral rush Bulrush Yellow marsh flower	Bittern Lagoon Doreel Swamp Water Swamp Hepburn Lagoon		
FRESH-WATER LAKES AND STORAGES	9b	Tall spike-rush Floating pondweed Water ribbons	Tall spike-rush Common reed	Lakes Bulac, Burroughs and Loxwood, Water storages		
BRACKISH WETLANDS	9c	Long fruit water-mat	Banked glasswort Creeping broomweed Monkey flower Water button, Sellaria	Lake Goldsmith Black Lake		
SALINE WETLANDS	9d	Sea tussock Long fruit water-mat	Banked glasswort Grey glasswort Creeping broomweed Chilly saw sedge Creeping monkey flower	Lakes Wonga, Gonip, Yanzamand, Turlingmoro, Cockajammy Lakes		
Height range of structural categories :		Open forest IV >40m Open forest III 25-40m Open forest II 15-25m Open forest I 5-15m	Woodland II 15-25m Woodland I 5-15m			