Lower Hunter Spotted Gum-Ironbark Forest in the Sydney Basin Bioregion

Introduction

These guidelines provide background information to assist landholders to identify remnants of Lower Hunter Spotted Gum-Ironbark Forest. For more detailed information, refer to the NSW Scientific Committee's Determination Advice at http://www.nationalparks.nsw.gov.au/npws.nsf/Content/Final+determinations



Broad-leaved Ironbark trunk

thinning has occurred, woodland which occurs in the central to lower Hunter Valley. The community is associated with, but is not totally restricted to, the moderately fertile yellow podzolic and solodic soils of the Lower Hunter soil landscapes of Aberdare, Branxton and Neath areas.

The most dominant trees which characterise this community are Spotted Gum (Corymbia maculata) and Broad-leaved Ironbark (Eucalyptus fibrosa). Grey Gum (Eucalyptus punctata) and Grey Ironbark (Eucalyptus crebra) may also occasionally occur. The shrub layer contains a mixture of tall and medium height shrubs and the ground layer comprises a diverse mixture of grasses and herbs.

Where is Lower Hunter Spotted Gum - Ironbark Forest found?

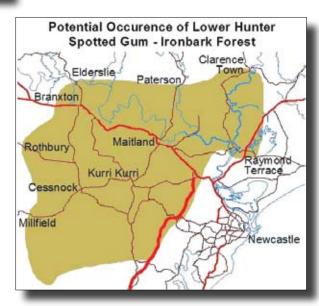
Lower Hunter Spotted Gum – Ironbark Forest is restricted to an area of some 65 km by 35 km centred on the Cessnock – Beresfield area in the central to lower Hunter Valley. It has been recorded from the Cessnock, Maitland, Singleton, Lake Macquarie, Newcastle, Port Stephens and Dungog local government areas but may occur elsewhere within the Sydney Basin bioregion.

What is an Endangered Ecological Community?

An ecological community is a group of trees, shrubs and understorey plants that occur together in a particular area. An Endangered Ecological Community is an ecological community listed under the *Threatened Species Conservation Act* 1995 as being at risk of extinction unless threats affecting these areas are managed and reduced.

What is Lower Hunter Spotted Gum – Ironbark Forest?

Lower Hunter Spotted Gum – Ironbark Forest is typically an open forest, or where



Department of Environment & Climate Change NSW



Why is it important?

Only a very small percentage (about 10%) of the original extent of Lower Hunter Spotted Gum – Ironbark Forest remains. The remaining areas are small and highly fragmented occurring mostly as small patches of less than 10 hectares. Much of the remaining areas of this community are threatened by clearing, timber harvesting, coal mining, weed invasion, frequent fires, grazing and cropping. A number of threatened plants may be present in this community including Netted Bottle Brush (Callistemon linearifolius), Small Flower Grevillea (Grevillea parviflora subsp. Parviflora) and Heath Wrinklewort (Rutidosis heterogama).



Portrait view of EEC

How can I identify an area of Lower Hunter Spotted Gum – Ironbark Forest?

The following is a list of key characteristics to help identify an area of Lower Hunter Spotted Gum – Ironbark Forest.

- Is the site in the central or lower Hunter Valley?
- Is the vegetation open forest or woodland or consist of a dense thicket of saplings?
- Does the tree layer contain Spotted Gum or Broad-leaved Ironbark?

If you answer yes to the above questions, the area is likely to be Lower Hunter Spotted Gum –Ironbark Forest.

Description of the community

The tree layer

The most common trees occurring in the canopy of Lower Hunter Spotted Gum – Ironbark Forest are Spotted Gum (*Corymbia maculata*) and Broadleaved Ironbark (*Eucalyptus fibrosa*), while Grey Gum (*E. punctata*) and Grey Ironbark (*E. crebra*) occur occasionally. A number of other eucalypt species occur less frequently, but may be locally common.



The shrub layer

The shrub layer of Lower Hunter Spotted Gum – Ironbark Forest is often characterised by the tall shrub Silver-stemmed Wattle (Acacia parvipinnula), and by the prickly shrubs, Coarse Bitter Pea (Daviesia ulicifolia), Blackthorn (Bursaria spinosa), Melaleuca nodosa and Lissanthe strigosa. Other shrubs may include Persoonia linearis, Narrow-leaved Orangebark (Maytenus silvestris) and Coffee Bush (Breynia oblongifolia).

The ground layer

The ground layer usually contains a diverse mixture of herbs, ferns and native grasses including Forest Fern (Cheilanthes sieberi), Flax Lily (Dianella revoluta), twiners and herbs such as Glycine clandestina, Lepidosperma laterale, Pomax umbellata, Mat Rush (Lomandra multiflora), Whiteroot (Pratia purpurascens), Phyllanthus hirtellus and a variety of native grasses such as Kangaroo Grass (Themeda australis), Barbed-wire Grass (Cymbopogon refractus), Wiry Panic (Entolasia stricta), and Microlaena stipoides.

Characteristic species

A list of trees and plants that characterise a patch of Lower Hunter Spotted Gum – Ironbark Forest is provided in the Table below. Not all the species listed need to occur at any one site for it to be considered Lower Hunter Spotted Gum – Ironbark Forest.

Species List

Lower Hunter Spotted Gum – Ironbark Forest is characterised by the species listed in the Table below. The species present at any site will be influenced by the size of the site, recent rainfall or drought conditions and by its disturbance (including fire and logging) history. Note that NOT ALL the species listed below need to be present at any one site for it to constitute Lower Hunter Spotted Gum – Ironbark Forest.

C	
Scientific Name	Common Name
Trees	
Angophora costata	Smooth-barked Apple
Corymbia eximia	
Corymbia gummifera	Red Bloodwood
Corymbia maculata	Spotted Gum
Eucalyptus acmenoides	White Mahogany
Eucalyptus agglomerata	Blue-leaved
	Stringybark
Eucalyptus canaliculata	Large-fruited Grey
intergrades	Gum intergrades
Eucalyptus crebra	Narrow-leaved
	Ironbark
Eucalyptus fergusonii	An Ironbark
Eucalyptus fibrosa	Red Ironbark
Eucalyptus globoidea	White Stringybark
Eucalyptus moluccana	Grey Box
Eucalyptus nubila	Blue-leaved Ironbark
Eucalyptus paniculata	Grey Ironbark
Eucalyptus punctata	Grey Gum
Eucalyptus siderophloia	Small-fruited Grey
	Gum
Eucalyptus sparsifolia	Narrow-leaved
	Stringybark
Eucalyptus tereticornis	Forest Red Gum
Eucalyptus umbra	White Mahogany
Syncarpia glomulifera	Turpentine
Shrubs/Small trees	
Acacia parvipinnula	Silver-stemmed Wattle
Breynia oblongifolia	Coffee Bush
Bursaria spinosa	Blackthorn
Daviesia leptophylla	
Daviesia ulicifolia	Gorse Bitter Pea
Goodenia hederacea	
subsp. hederacea	

Scientific Name Grevillea montana Maytenus silvestris Lissanthe strigosa Macrozamia flexuosa Melaleuca nodosa Ozothamnus diosmifolius Persoonia linearis Phyllanthus hirtellus Grasses Aristida vagans Cymbopogon refractus Digitaria parviflora Entolasia stricta Microlaena stipoides Panicum simile Themeda australis Herbs/Ferns Cheilanthes sieberi Dianella caerulea Dianella revoluta Laxmannia gracilis Lepidosperma laterale Lomandra filiformis Lomandra multiflora Pratia purpurascens Whiteroot Vernonia cinerea Vines Glycine clandestina Billardiera scandens Hardenbergia violacea False Sarsparilla		
Maytenus silvestris Lissanthe strigosa Macrozamia flexuosa Melaleuca nodosa Persoonia linearis Phyllanthus hirtellus Grasses Aristida vagans Cymbopogon refractus Digitaria parviflora Entolasia stricta Microlaena stipoides Panicum simile Themeda australis Herbs/Ferns Cheilanthes sieberi Dianella caerulea Dianella revoluta Laxmannia gracilis Lepidosperma laterale Lomandra filiformis Lomandra multiflora Pratia purpurascens Glycine clandestina Billardiera scandens A tea tree Orangebark A tea tree Ozothamnus deebung White Dogwood A Geebung Phyllanthus hirtellus Barbed Wire Grass Small-flowered Finger Grass Entolasia stricta Wiry Panic Wiry Panic Kangaroo Grass Herbs/Ferns Cheilanthes sieberi Forest Fern Dianella caerulea Blue Flax Lily Laxmannia gracilis Lepidosperma laterale Lomandra filiformis A mat rush Lomandra multiflora A mat rush Pomax umbellata Pratia purpurascens Whiteroot Vernonia cinerea Vines Glycine clandestina Billardiera scandens Apple Berry	Scientific Name	Common Name
Lissanthe strigosa Macrozamia flexuosa Melaleuca nodosa Ozothamnus diosmifolius Persoonia linearis Phyllanthus hirtellus Grasses Aristida vagans Cymbopogon refractus Digitaria parviflora Entolasia stricta Microlaena stipoides Panicum simile Themeda australis Herbs/Ferns Cheilanthes sieberi Dianella caerulea Dianella revoluta Laxmannia gracilis Lepidosperma laterale Lomandra filiformis A mat rush Lomandra multiflora Pomax umbellata Pratia purpurascens White Dogwood White Dogwood White Dogwood White Dogwood White Dogwood White Grass Threeawn Speargrass Small-flowered Finger Grass Entolasia stricta Wiry Panic Wiry Panic Kangaroo Grass Herbs/Ferns Cheilanthes sieberi Forest Fern Dianella caerulea Blue Flax Lily Flax Lily Laxmannia gracilis Lepidosperma laterale Lomandra filiformis A mat rush Lomandra multiflora Pomax umbellata Pratia purpurascens Whiteroot Vernonia cinerea Vines Glycine clandestina Billardiera scandens Apple Berry	Grevillea montana	
Lissanthe strigosa Macrozamia flexuosa Melaleuca nodosa Persoonia linearis Phyllanthus hirtellus Grasses Aristida vagans Cymbopogon refractus Digitaria parviflora Entolasia stricta Microlaena stipoides Panicum simile Themeda australis Herbs/Ferns Cheilanthes sieberi Dianella caerulea Dianella revoluta Laxmannia gracilis Lepidosperma laterale Lomandra filiformis Lomandra multiflora Pomax umbellata Pratia purpurascens White Dogwood A tea tree Ozothamnus divenus White Dogwood A Geebung Phyllanthus Pheaeum Speargrass A Geebung White Dogwood Wire Grass Small-flowered Finger Grass Entolasia stricta Wiry Panic Wiry Panic Microlaena stipoides Panicum simile Themeda australis Kangaroo Grass Herbs/Ferns Cheilanthes sieberi Forest Fern Dianella caerulea Blue Flax Lily Laxmannia gracilis Lepidosperma laterale Lomandra filiformis A mat rush Lomandra multiflora Pomax umbellata Pratia purpurascens Whiteroot Vernonia cinerea Vines Glycine clandestina Billardiera scandens A pple Berry	Maytenus silvestris	Narrow-leaved
Macrozamia flexuosa Melaleuca nodosa Ozothamnus diosmifolius White Dogwood Persoonia linearis A Geebung Phyllanthus hirtellus Grasses Aristida vagans Cymbopogon refractus Digitaria parviflora Small-flowered Finger Grass Entolasia stricta Wiry Panic Microlaena stipoides Panicum simile Themeda australis Herbs/Ferns Cheilanthes sieberi Forest Fern Dianella caerulea Dianella revoluta Laxmannia gracilis Lepidosperma laterale Lomandra filiformis A mat rush Lomandra multiflora Pomax umbellata Pratia purpurascens White Oot Vernonia cinerea Vines Glycine clandestina Billardiera scandens A Geebung White Dogwood A tea tree Ozothamnus White Dogwood A tea tree Ogeobung Phyllanthus Dogwood A Geebung White Oog Wines Ozothamnus Geebung Barbed Wire Grass Small-flowered Finger Grass Small-flowered Finger Grass Entolasia stricta Wiry Panic Micro Grass Forest Fern Dianella caerulea Blue Flax Lily Laxmannia gracilis Lepidosperma laterale Lomandra filiformis A mat rush Lomandra multiflora A mat rush Pomax umbellata Pratia purpurascens Whiteroot Vernonia cinerea Vines Glycine clandestina Billardiera scandens Apple Berry		Orangebark
Melaleuca nodosa Ozothamnus diosmifolius Persoonia linearis A Geebung Phyllanthus hirtellus Grasses Aristida vagans Cymbopogon refractus Digitaria parviflora Entolasia stricta Microlaena stipoides Panicum simile Themeda australis Herbs/Ferns Cheilanthes sieberi Dianella caerulea Dianella revoluta Laxmannia gracilis Lepidosperma laterale Lomandra filiformis A mat rush Lomandra multiflora Pratia purpurascens White Dogwood White Dogwood A Geebung White Dogwood Barbed Wire Grass Small-flowered Finger Grass Entolasia stricta Wiry Panic Wiry Panic Kangaroo Grass Herbs/Ferns Cheilanthes sieberi Forest Fern Dianella caerulea Blue Flax Lily Laxmannia gracilis Lepidosperma laterale Lomandra filiformis A mat rush Lomandra multiflora A mat rush Pomax umbellata Pratia purpurascens Whiteroot Vernonia cinerea Vines Glycine clandestina Billardiera scandens Apple Berry	Lissanthe strigosa	
Ozothamnus diosmifolius White Dogwood Persoonia linearis A Geebung Phyllanthus hirtellus Grasses Aristida vagans Threeawn Speargrass Cymbopogon refractus Barbed Wire Grass Digitaria parviflora Small-flowered Finger Grass Entolasia stricta Wiry Panic Microlaena stipoides Panicum simile Themeda australis Kangaroo Grass Herbs/Ferns Cheilanthes sieberi Forest Fern Dianella caerulea Blue Flax Lily Dianella revoluta Flax Lily Laxmannia gracilis Lepidosperma laterale Lomandra filiformis A mat rush Lomandra multiflora A mat rush Pomax umbellata Pratia purpurascens Whiteroot Vernonia cinerea Vines Glycine clandestina Billardiera scandens Apple Berry	Macrozamia flexuosa	
Persoonia linearis Phyllanthus hirtellus Grasses Aristida vagans Cymbopogon refractus Digitaria parviflora Entolasia stricta Microlaena stipoides Panicum simile Themeda australis Herbs/Ferns Cheilanthes sieberi Dianella caerulea Dianella revoluta Laxmannia gracilis Lepidosperma laterale Lomandra filiformis Lomandra multiflora Pomax umbellata Pratia purpurascens Cleinadestina Billardiera scandens A Geebung A Geebung A Geebung A Geebung A Geebung A Geebung A Grass Threeawn Speargrass Small-flowered Finger Grass Kangaroo Grass Herbs/Ferns Cheilanthes sieberi Forest Fern Blue Flax Lily Flax Lily Laxmannia gracilis Lepidosperma laterale Lomandra filiformis A mat rush Vernonia cinerea Vines Glycine clandestina Billardiera scandens Apple Berry	Melaleuca nodosa	A tea tree
Phyllanthus hirtellus Grasses Aristida vagans Cymbopogon refractus Digitaria parviflora Entolasia stricta Microlaena stipoides Panicum simile Themeda australis Herbs/Ferns Cheilanthes sieberi Dianella caerulea Dianella revoluta Laxmannia gracilis Lepidosperma laterale Lomandra filiformis Lomandra multiflora Pomax umbellata Pratia purpurascens Cleycine clandestina Billardiera scandens Aristida vagans Threeawn Speargrass Small-flowered Finger Grass Kangaroo Grass Kangaroo Grass Herbs/Ferns Forest Fern Dianella caerulea Blue Flax Lily Flax Lily Laxmannia gracilis Lepidosperma laterale Lomandra filiformis A mat rush Vines Glycine clandestina Billardiera scandens Apple Berry	Ozothamnus diosmifolius	White Dogwood
GrassesAristida vagansThreeawn SpeargrassCymbopogon refractusBarbed Wire GrassDigitaria parvifloraSmall-flowered Finger GrassEntolasia strictaWiry PanicMicrolaena stipoidesPanicum similePanicum simileKangaroo GrassThemeda australisKangaroo GrassHerbs/FernsForest FernCheilanthes sieberiForest FernDianella caeruleaBlue Flax LilyDianella revolutaFlax LilyLaxmannia gracilisLepidosperma lateraleLomandra filiformisA mat rushLomandra multifloraA mat rushPomax umbellataPratia purpurascensVernonia cinereaWhiterootVinesGlycine clandestinaBillardiera scandensApple Berry	Persoonia linearis	A Geebung
Aristida vagans Cymbopogon refractus Digitaria parviflora Entolasia stricta Microlaena stipoides Panicum simile Themeda australis Herbs/Ferns Cheilanthes sieberi Dianella caerulea Dianella revoluta Laxmannia gracilis Lepidosperma laterale Lomandra filiformis Lomandra multiflora Pomax umbellata Pratia purpurascens Clycine clandestina Billardiera scandens Threeawn Speargrass Barbed Wire Grass Small-flowered Finger Grass Kangaroo Grass Kangaroo Grass Herbs/Ferns Cheilanthes sieberi Forest Fern Blue Flax Lily Flax Lily A mat rush Lomandra filiformis A mat rush Vomax umbellata Pratia purpurascens Vines Glycine clandestina Billardiera scandens Apple Berry	Phyllanthus hirtellus	
Cymbopogon refractus Digitaria parviflora Small-flowered Finger Grass Entolasia stricta Wiry Panic Microlaena stipoides Panicum simile Themeda australis Herbs/Ferns Cheilanthes sieberi Dianella caerulea Dianella revoluta Laxmannia gracilis Lepidosperma laterale Lomandra filiformis A mat rush Lomandra multiflora Pomax umbellata Pratia purpurascens Whiteroot Vernonia cinerea Vines Glycine clandestina Billardiera scandens Small-flowered Finger Grass Small-flowered Finger Grass Kangaroo Grass Herbs/Ferns Forest Fern Blue Flax Lily Flax Lily Laxmannia gracilis Lepidosperma laterale Lomandra filiformis A mat rush Vines Glycine clandestina Billardiera scandens Apple Berry	Grasses	
Cymbopogon refractus Digitaria parviflora Small-flowered Finger Grass Entolasia stricta Wiry Panic Microlaena stipoides Panicum simile Themeda australis Herbs/Ferns Cheilanthes sieberi Dianella caerulea Dianella revoluta Laxmannia gracilis Lepidosperma laterale Lomandra filiformis A mat rush Lomandra multiflora Pomax umbellata Pratia purpurascens Whiteroot Vernonia cinerea Vines Glycine clandestina Billardiera scandens Small-flowered Finger Grass Small-flowered Finger Grass Kangaroo Grass Herbs/Ferns Forest Fern Blue Flax Lily Flax Lily Laxmannia gracilis Lepidosperma laterale Lomandra filiformis A mat rush Vines Glycine clandestina Billardiera scandens Apple Berry	Aristida vagans	Threeawn Speargrass
Digitaria parviflora Small-flowered Finger Grass Entolasia stricta Wiry Panic Microlaena stipoides Panicum simile Themeda australis Herbs/Ferns Cheilanthes sieberi Dianella caerulea Dianella revoluta Laxmannia gracilis Lepidosperma laterale Lomandra filiformis A mat rush Lomandra multiflora Pomax umbellata Pratia purpurascens Whiteroot Vernonia cinerea Vines Glycine clandestina Billardiera scandens A wiry Panic Wiry Panic Small-flowered Finger Grass Wiry Panic Miry Panic A mass Kangaroo Grass Forest Fern Blue Flax Lily Flax Lily Laxmannia gracilis A mat rush A mat rush Whiteroot Vernonia cinerea Vines Glycine clandestina Billardiera scandens Apple Berry		
Grass Entolasia stricta Microlaena stipoides Panicum simile Themeda australis Herbs/Ferns Cheilanthes sieberi Dianella caerulea Dianella revoluta Laxmannia gracilis Lepidosperma laterale Lomandra filiformis A mat rush Lomandra multiflora Pomax umbellata Pratia purpurascens Glycine clandestina Billardiera scandens Wiry Panic Wiry Panic Wiry Panic Mary Panic A massa Kangaroo Grass Forest Fern Blue Flax Lily Flax Lily A mat rush A mat rush Whiteroot Vernonia cinerea Vines Glycine clandestina Billardiera scandens Apple Berry		Small-flowered Finger
Microlaena stipoides Panicum simile Themeda australis Herbs/Ferns Cheilanthes sieberi Dianella caerulea Blue Flax Lily Dianella revoluta Laxmannia gracilis Lepidosperma laterale Lomandra filiformis A mat rush Lomandra multiflora Pomax umbellata Pratia purpurascens Whiteroot Vernonia cinerea Vines Glycine clandestina Billardiera scandens Kangaroo Grass Kangaroo Grass Angaroo Grass Forest Fern Blue Flax Lily Flax Lily A mat rush Flax Lily A mat rush Whiteroot Vernonia cinerea Vines Glycine clandestina Apple Berry		
Microlaena stipoides Panicum simile Themeda australis Herbs/Ferns Cheilanthes sieberi Dianella caerulea Blue Flax Lily Dianella revoluta Laxmannia gracilis Lepidosperma laterale Lomandra filiformis A mat rush Lomandra multiflora Pomax umbellata Pratia purpurascens Whiteroot Vernonia cinerea Vines Glycine clandestina Billardiera scandens Kangaroo Grass Kangaroo Grass Angaroo Grass Forest Fern Blue Flax Lily Flax Lily A mat rush Flax Lily A mat rush Whiteroot Vernonia cinerea Vines Glycine clandestina Apple Berry	Entolasia stricta	Wiry Panic
Panicum simile Themeda australis Herbs/Ferns Cheilanthes sieberi Dianella caerulea Blue Flax Lily Dianella revoluta Laxmannia gracilis Lepidosperma laterale Lomandra filiformis A mat rush Lomandra multiflora Pomax umbellata Pratia purpurascens Vines Glycine clandestina Billardiera scandens Kangaroo Grass Kangaroo Grass Hangaroo Grass Forest Fern Blue Flax Lily Flax Lily Laxmannia gracilis Flax Lily A mat rush Whiteroot Vernonia cinerea Vines A mat rush Pomax umbellata Pratia purpurascens Vernonia cinerea Vines Glycine clandestina Billardiera scandens Apple Berry	Microlaena stipoides	
Herbs/Ferns Cheilanthes sieberi Forest Fern Dianella caerulea Blue Flax Lily Dianella revoluta Flax Lily Laxmannia gracilis Lepidosperma laterale Lomandra filiformis A mat rush Lomandra longifolia Spiny-headed Mat-rush Lomandra multiflora A mat rush Pomax umbellata Pratia purpurascens Vernonia cinerea Vines Glycine clandestina Billardiera scandens Apple Berry		
Herbs/Ferns Cheilanthes sieberi Forest Fern Dianella caerulea Blue Flax Lily Dianella revoluta Flax Lily Laxmannia gracilis Lepidosperma laterale Lomandra filiformis A mat rush Lomandra longifolia Spiny-headed Mat-rush Lomandra multiflora A mat rush Pomax umbellata Pratia purpurascens Whiteroot Vernonia cinerea Vines Glycine clandestina Billardiera scandens Apple Berry	Themeda australis	Kangaroo Grass
Dianella caerulea Dianella revoluta Laxmannia gracilis Lepidosperma laterale Lomandra filiformis Lomandra longifolia Lomandra multiflora Pomax umbellata Pratia purpurascens Vernonia cinerea Vines Glycine clandestina Billardiera scandens Blue Flax Lily Flax Lily A mat rush A mat rush Whiteroot Whiteroot A mat rush A pople Berry	Herbs/Ferns	
Dianella revoluta Laxmannia gracilis Lepidosperma laterale Lomandra filiformis A mat rush Lomandra longifolia Spiny-headed Mat-rush Lomandra multiflora A mat rush Pomax umbellata Pratia purpurascens Vernonia cinerea Vines Glycine clandestina Billardiera scandens Apple Berry	Cheilanthes sieberi	Forest Fern
Dianella revoluta Laxmannia gracilis Lepidosperma laterale Lomandra filiformis A mat rush Lomandra longifolia Spiny-headed Mat-rush Lomandra multiflora A mat rush Pomax umbellata Pratia purpurascens Vernonia cinerea Vines Glycine clandestina Billardiera scandens A ple Berry	Dianella caerulea	Blue Flax Lily
Laxmannia gracilis Lepidosperma laterale Lomandra filiformis A mat rush Lomandra longifolia Spiny-headed Mat-rush Lomandra multiflora A mat rush Pomax umbellata Pratia purpurascens Vernonia cinerea Vines Glycine clandestina Billardiera scandens A mat purpurascens Whiteroot	Dianella revoluta	,
Lepidosperma laterale Lomandra filiformis A mat rush Lomandra longifolia Spiny-headed Mat-rush Lomandra multiflora A mat rush Pomax umbellata Pratia purpurascens Vernonia cinerea Vines Glycine clandestina Billardiera scandens A mat rush A political materials and a materials	Laxmannia gracilis	,
Lomandra longifolia Spiny-headed Mat-rush Lomandra multiflora A mat rush Pomax umbellata Pratia purpurascens Whiteroot Vernonia cinerea Vines Glycine clandestina Billardiera scandens Apple Berry		
Lomandra longifolia Spiny-headed Mat-rush Lomandra multiflora A mat rush Pomax umbellata Pratia purpurascens Whiteroot Vernonia cinerea Vines Glycine clandestina Billardiera scandens Apple Berry	Lomandra filiformis	A mat rush
Lomandra multiflora A mat rush Pomax umbellata Pratia purpurascens Whiteroot Vernonia cinerea Vines Glycine clandestina Billardiera scandens Apple Berry		Spiny-headed Mat-rush
Pomax umbellata Pratia purpurascens Whiteroot Vernonia cinerea Vines Glycine clandestina Billardiera scandens Apple Berry		
Vernonia cinerea Vines Glycine clandestina Billardiera scandens Apple Berry	-	
Vernonia cinerea Vines Glycine clandestina Billardiera scandens Apple Berry	Pratia purpurascens	Whiteroot
Glycine clandestina Billardiera scandens Apple Berry		
Billardiera scandens Apple Berry	Vines	
Billardiera scandens Apple Berry	Glycine clandestina	
		Apple Berry
	Hardenbergia violacea	

Variation in the community

At heavily disturbed sites only some of the species which characterise the community may be present. In addition, above ground individuals of some species may not be present, but the species may be represented below ground in the soil seed banks or as bulbs, corms, rhizomes or rootstocks. As such, disturbed remnants may still be considered to form part of the community. This includes sites where either the shrub layer and/or tree layer would respond, under appropriate management, to natural regeneration (i.e. where the natural soil and associated seed bank are still mostly intact).



Melaleuca nodosa

S Be



What does this mean for my property?

As a listed Endangered Ecological Community under the *Threatened Species Conservation Act* 1995, Lower Hunter Spotted Gum – Ironbark Forest has significant conservation value and some activities may require consent or approval. Please contact the Department of Environment and Climate Change (DECC) for further information.

Determining the conservation value of remnants

The degree of disturbance (i.e. condition) of many remnants can vary, from almost pristine to highly modified. It is important to note that even small patches or areas that have had past disturbance such as selective logging, fire or grazing may still be important remnants of Lower Hunter Spotted Gum – Ironbark Forest and be considered the EEC. Where difficulties arise when faced with decisions on whether particular sites are Lower Hunter Spotted Gum – Ironbark Forest, expert advice may be needed.

Retaining mature native vegetation or EECs for conservation purposes may attract incentive funding. Funding is allocated to landholders by the local Catchment Management Authority (CMA) according to the priorities set out in their Catchment Action Plan and strategies. For more information contact your local CMA or email: info@nativevegetation.nsw.gov.au

For further assistance

This and other EEC guidelines are available on the DECC website at www.environment.nsw.gov.au

The references listed below also provide further information on EECs.

- NSW Scientific Committee
 Determinations: http://www.nationalparks.nsw.gov.au/npws.nsf/Content/
 Final+determinations
- Department of Environment and Climate Change (NSW) Threatened Species profiles: http://www.threatenedspecies.
 environment.nsw.gov.au/tsprofile/index.
 aspx
- Bell, S. and Driscoll, C. (2007) Vegetation
 of the Cessnock-Kurri Region, Cessnock
 LGA, New South Wales: Survey,
 Classification and Mapping. Draft, V2. for
 Environment Protection and Regulation
 Division, Department of Environment and
 Climate Change, Newcastle.
- Botanic Gardens Trust plant identification assistance: http://www.rbgsyd.nsw.gov.au/ information_about_plants/botanical_info/ plant_identification
- Brooker, M. and Kleinig, D. (1990) Field Guide to Eucalypts of South-eastern Australia, Vol 2. Inkata, Melbourne.
- Harden, G. (ed) Flora of NSW Vols 1 4 (1990-2002). NSW University Press.
- Harden, G., McDonald, W. and Williams, J. (2006) Rainforest Trees and Shrubs – A Field Guide to their identification. Gwen Harden Publishing, Nambucca Heads.







Netted Bottle Brush (Callistemon linearifolius)

Disclaimer: The Department of Environment and Climate Change has prepared this document as a guide only. The information provided is not intended to be exhaustive. It does not constitute legal advice. Users of this guide should do so at their own risk and should seek their own legal and other expert advice in identifying endangered ecological communities. The Department of Environment and Climate Change accepts no responsibility for errors or omissions in this guide or for any loss or damage arising from its use.

Department of Environment and Climate Change 1300 361 967

environment.nsw.gov.au

info@environment.nsw.gov.au | August 07 ISBN 9 781 74122 661 4 DECC 2007/550 Department of Environment & Climate Change NSW

