

# Fuzzy Box Woodland on alluvial soils of the South Western Slopes, Darling Riverine Plains and Brigalow Belt South bioregions

## Introduction

These guidelines provide background information to help land managers to identify remnants of the Endangered Ecological Community (EEC): Fuzzy Box on alluvial soils of the South Western Slopes, Darling Riverine Plains and Brigalow Belt South bioregions. For more detailed information refer to the EEC profile for Fuzzy Box Woodland which includes the Final Determination of the NSW Scientific Committee, on the Department of Environment, Climate Change and Water (DECCW) Threatened Species website: www.threatenedspecies.environment.nsw.gov.au

## What is an Endangered Ecological Community?

An ecological community is a unique and naturally occurring assemblage of plants and animals. The presence of an ecological community can be determined by factors such as soil type, position in the landscape, climate and water availability, all of which influence species composition. An EEC is an ecological community listed under the *Threatened Species Conservation Act 1995* as being at risk of extinction, unless the threats affecting it are managed and reduced.

Although most ecological communities are recognised by their typical plant species, these communities include all the organisms that occur in that particular area. The survival of each species relies on complex interactions among all of the inhabitants of an ecological community, through biotic mechanisms such as food webs, mutualisms and pollination, and through abiotic mechanisms such as water, nitrogen and carbon cycles. Consequently, the loss of any species may have detrimental flow-on effects for the ecological functioning of the whole community.

#### What is a particular area?

The NSW Scientific Committee defines a particular area as the Bioregion and Local Government Area where an EEC may be found. The particular area may be further delineated by using other supplementary factors such as landscape, soil type and climatic variables.



Fuzzy Box Woodland in Weddin Mountains National Park, with low herbaceous and grassy groundcover Photo: M. Porteners

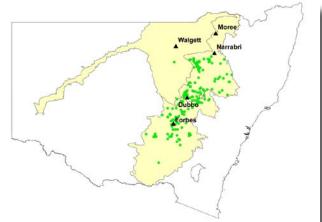
# What is Fuzzy Box Woodland?

Fuzzy Box Woodland is a plant community recognised by a tall woodland dominated by Fuzzy box (Eucalyptus conica), often with inland grey box (Eucalyptus microcarpa), yellow box (Eucalyptus melliodora), bulloak (Allocasuarina luehmannii) or kurrajong

(*Brachychiton populneus*). Shrubs are usually sparse, with the groundcover dominated by grasses and low forbs, the density and composition of which will vary considerably from season to season. Fuzzy Box Woodland may form a mosaic of patches with other woodland communities at any one site, but it is recognised by a dominance of *E. conica*, with any other tree species present in lower abundances. See 'Identifying Fuzzy Box Woodland EEC' below for further help.

## Where is Fuzzy Box Woodland found?

Fuzzy Box Woodland is found on alluvial soils of the South Western Slopes, Brigalow Belt South and Darling Riverine Plains Bioregions, mainly in the Dubbo–Narromine–Parkes–Forbes area, (see Map). It is most abundant in the Forbes district but extends north to Narromine, with outliers near Bylong in the east. Less than 5% of the original extent is estimated to remain. The community occurs on a variety of soils on flats, low slopes, prior streams and abandoned channels or slight depressions on the undulating plains, mainly of the western slopes.



Bioregions in NSW where Fuzzy Box Woodland EEC can occur and the locations where fuzzy box as a species has been recorded to date. Fuzzy Box EEC occurs elsewhere in the bioregions.

It is often found upslope from River Red Gum communities, above the more frequently inundated areas of the floodplain. It also occurs on the lower slopes and valley flats, sometimes with other forest types such as the White Box–Yellow Box–Blakely's Red Gum Woodland EEC. Fuzzy box as a species is more widely distributed than the EEC on the western slopes of NSW, and it may occur in association with other eucalypt species to form other communities. Other woodland communities with similar floristic composition but where fuzzy box occurs only sporadically and is not the dominant tree canopy species are not part of the EEC.

## Description of the community

## The tree layer

The tree or upper canopy layer of Fuzzy Box Woodland EEC is dominated by *E. conica*, often growing with inland grey box (*E. microcarpa*), yellow box (*E. melliodora*) or kurrajong (*B. populneus*). Bulloak (*A. luehmannii*) and white cypress pine (*Callitris glaucophylla*) are also common in places.

# The understorey: small trees and shrubs

Small trees and shrubs that may be present in the understorey include: wilga (Geijera parviflora), Deane's wattle (Acacia deanei), hop bush (Dodonaea viscosa), hickory wattle (Acacia implexa), silver cassia (Senna artemisioides sens. lat.), dolly bush (Cassinia aculeata), water bush (Myoporum montanum), eastern cottonbush (Maireana microphylla) and black roly-poly (Sclerolaena muricata).



Fuzzy Box Woodland roadside remnant at Emu Creek, south of Grenfell Photo: J. Plaza, RBG Sydney

### The Understorey: groundcover plants

Groundcover species that are common across the range of Fuzzy Box Woodland include: native forbs such as purple burr-daisy (*Calotis cuneifolia*), corrugated sida (*Sida corrugata*), berry saltbushes (*Einadia hastata* and *E. nutans*), blue flax-lily (*Dianella revoluta*) and sticky everlasting (*Bracteantha viscosa*), low prostrate shrubs such as amulla (*Eremophila debilis*) and wingless fissure-weed (*Maireana enchylaenoides*), and native grasses, including speargrass (*Austrostipa scabra*), windmill grass (*Chloris truncata*), common wheatgrass (*Elymus scaber*), kangaroo grass (*Themeda australis*) and small-flowered wallaby grass (*Austrodanthonia setacea*).

### Characteristic species list

There are over 200 plant species that occur in the Fuzzy Box Woodland environment. A list of plant species that generally characterise a patch of Fuzzy Box Woodland across its range is provided in Table 1. Not all the species listed need to occur in any one site for it to be considered Fuzzy Box Woodland EEC, and sites may include others species not listed as characteristic.

There are a number of variations in floral composition and structure within this community throughout its range, and in some individual cases the species in Table 1 may occur infrequently or not at all. Unseen species may be represented below ground in the soil seed bank or as dormant structures such as bulbs, corms, rhizomes, rootstock or lignotubers. Your final decision should be based on a weight of evidence from the key indicators outlined below. If in doubt refer to the full NSW Scientific Committee determination or seek further help from DECCW or your local catchment management authority.

## Identifying Fuzzy Box Woodland EEC

The following are key indicators to look for when determining whether Fuzzy Box Woodland exists on a site:

- Is the site on the western slopes of NSW and in the South Western Slopes, Darling Riverine Plains or Brigalow Belt South Bioregion? (see Map)
- 2. Is the site on a prior stream, abandoned channel, slight depression, undulating plain or flat with alluvial or colluvial soils?
- 3. Is the site a woodland dominated by fuzzy box with a sparse shrubby understorey and/or open forb and grassy groundcover?



Fuzzy Box Woodland roadside remnant Photo: J. Benson, RBG Sydney

- 4. Does the site contain a combination of the diagnostic tree species marked in bold in Table 1?
- 5. Is the site situated on an upper floodplain above the level of frequent inundation and upslope from a River Red Gum community, or on a lower slope or valley flat with other tree species, such as inland grey box, yellow box, white box or Blakely's red gum?
- 6. Are there any plant species present at the site from those listed as characteristic in Table 1? (See photos in this guideline, check with a local botanist, consult reference books or NSW Flora Online: plantnet.rbgsyd.nsw.gov.au).

If you answered yes to the above questions, your site is likely to consist of Fuzzy Box Woodland.

#### What does this mean for my property?

As a listed EEC under the *Threatened Species Conservation Act 1995*, Fuzzy Box Woodland has significant conservation value, and some activities affecting the EEC may require consent or approval. Please contact the Department of Environment, Climate Change and Water for further information.

## EECs that may adjoin or intergrade with Fuzzy Box Woodland

This community would have previously occurred with the following other western slopes and plains vegetation types that are now also listed as EECs:

- 1. White Box-Yellow Box-Blakely's Red Gum Woodland throughout its range, particularly on the lower landscapes and more fertile soils in eastern areas
- 2. Inland Grey Box Woodland in the Riverina, NSW South Western Slopes, Cobar Peneplain, Nandewar and Brigalow Belt South bioregions, predominantly on red-brown earths in the south to south-western parts of its range.

## Determining the conservation value of remnants

The degree of disturbance (i.e. the site condition) of any remnant of Fuzzy Box Woodland may vary depending on past land use, management practices and/or natural disturbance, and this should be considered at the time of assessment. Although the following list is not exhaustive, it describes a number of variations of Fuzzy Box Woodland you may encounter on your land:

- 1. as an isolated remnant within heavily cleared country, or as scattered trees within a paddock or confined to narrow roadside corridors
- 2. modified sites where the main tree species are present but the ground layer is predominantly composed of exotic species with few native grasses, herbs or shrubs remaining
- 3. a stand of trees of an older age-class or senescent trees, (the result of a lack of natural regeneration of the canopy species)
- 4. extreme seasonal variation in the density and species composition of the understorey: dense herbaceous groundcover composed largely of annual species in cooler seasons, versus very dry and sparse perennial cover with bare soil patches during the hotter months
- 5. dense incursions of the weeds Paterson's curse (Echium plantagineum), Maltese cockspur (Centaurea melitensis), smooth catsear (Hypochaeris glabra), capeweed (Arctotheca calendula), silvery hairgrass (Aira cupaniana), perennial ryegrass (Lolium perenne) or great brome (Bromus diandrus).

The conservation significance of each remnant should be assessed at each site, noting that even where a remnant is considered to be heavily degraded and in poor condition, it may still have conservation value for a number of reasons, including:

- 1. as part of a wildlife corridor that has connective importance at local and/or regional scales
- 2. as an important habitat and food source for birds, small and large mammals, terrestrial invertebrates and insectivorous bats

3. because it contains threatened species of flora in their own right, or rarely seen and elusive plants such as terrestrial orchids, rare herbs

and bryophytes, thus contributing to the local biodiversity

4. maintaining a healthy native seed bank, which is crucial for the perpetuation of vegetation communities and individual species in highly cleared and fragmented landscapes.

Any native vegetation remnant has habitat value and contributes to regional biodiversity. It is important to take these factors into account when determining the conservation significance of remnants.



Fuzzy Box Woodland Photo: J. Plaza, RBG Sydney

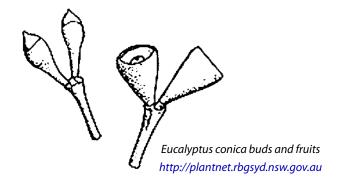
Table 1. Characteristic species recorded in the Fuzzy Box Woodland EEC

Common name	Scientific name
Overstorey – tree or shru	b layer species (1.5 m+)
Deane's wattle+	Acacia deanei subsp. deanei
Ironwood+ (NW)	Acacia excelsa
Western black wattle+	Acacia hakeoides
Hickory wattle+ (SE)	Acacia implexa
	Acacia penninervis var.
Mountain hickory <sup>+</sup> (SE)	longiracemosa
Bulloak <sup>+</sup>	Allocasuarina luehmannii
Kurrajong <sup>+</sup>	Brachychiton populneus
	subsp. populneus
White cypress pine+	Callitris glaucophylla
Belah <sup>+</sup>	Casuarina cristata
Blakely's red gum <sup>+</sup>	Eucalyptus blakelyi
Fuzzy box <sup>+</sup>	Eucalyptus conica
Western red box <sup>+</sup> (NW)	Eucalyptus intertexta
Yellow box <sup>+</sup>	Eucalyptus melliodora
Western grey box+	Eucalyptus microcarpa
Poplar box+	Eucalyptus populnea subsp. bimbil
Wilga <sup>+</sup>	Geijera parviflora
Needlewood <sup>+</sup> (NW)	Hakea leucoptera
C ma w a d+	Myoporum platycarpum
Sugarwood <sup>+</sup>	subsp. perbellum
Native olive <sup>+</sup> (SE)	Notelaea microcarpa
Groundcover/understore	ey species (0-1.5 m)
shrubs / forbs	
Lesser joyweed	Alternanthera denticulata
Hairy joyweed <sup>+</sup>	Alternanthera nana
Slender-fruited saltbush+ (NW)	Atriplex leptocarpa
Creeping saltbush+	Atriplex semibaccata
Sticky everlasting+	Bracteantha viscosa
Purple burr-daisy+	Calotis cuneifolia
Yellow burr-daisy	Calotis lappulacea
Tufted burr-daisy+	Calotis scapigera
Dolly bush <sup>+</sup>	Cassinia aculeata
Maltese cockspur <sup>+</sup>	Centaurea melitensis*
Crested goosefoot+	Chenopodium cristatum
Desert goosefoot <sup>+</sup>	Chenopodium desertorum
Mistletoe <sup>+</sup>	Dendrophthoe glabrescens
Blue flax-lily <sup>+</sup>	Dianella longifolia var.
	longifolia
Blue flax-lily <sup>+</sup>	Dianella revoluta var. revoluta
Wedge-leaf hopbush+	Dodonaea viscosa subsp.
Paterson's curse	Echium plantagineum*
Berry saltbush <sup>+</sup>	Einadia hastata
Climbing saltbush <sup>+</sup>	Einadia nutans sens. lat.
Amulla <sup>+</sup>	Eremophila debilis
ana	opa acom3

Peppercress Lepidium pseudohyssopifolium Wingless fissure-weed+ Maireana enchylaenoides Small fissure-weed+ Maireana microphylla Horehound Marrubium vulgare* Water bush+ Myoporum montanum Australian broomrape+ Orobanche cernua var. australiana Lamb's tails+ Ptilotus semilanatus Thorny saltbush+ (NW) Rhagodia spinescens Slender dock Rumex brownii Galvanised burr + (NW) Sclerolaena birchii Silver cassia+ Senna artemisioides sens. lat. Corrugated sida+ Sida corrugata Rock sida+ (NW) Sida petrophila London rocket Sisymbrium irio* Quena+ Solanum esuriale Fuzzweed+ Vittadinia cuneata sens. lat. Herbs / ferns Pimpernel Anagallis arvensis* Capeweed Arctotheca calendula* Small vanilla-lily+ Arthropodium minus Tarvine+ Boerhavia dominii Variable daisy Bulbine semibarbata Blue fairy orchid Caladenia caerulea Pink fingers Caladenia carnea Small purslane Calandrinia eremaea Garland lily Calostemma purpureum Caustic weed+ Chamaesyce drummondii Rock fern Cheilanthes sieberi subsp. sieberi Australian bindweed+ Convolvulus erubescens Dense stonecrop Crassula colorata var. acuminata Native carrot Daucus glochidiatus Kidney weed Dichondra species A Nodding chocolate-lily+ Dichopog nfimbriatus Blue crowsfoot Erodium crinitum Native geranium Solanderi var. solanderi	Common name	Scientific name
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Galvanised burr + (NW) Sclerolaena birchii  Black roly-poly+ Sclerolaena muricata var. muricata  Silver cassia+ Senna artemisioides sens. lat.  Corrugated sida+ Sida corrugata  Rock sida+ (NW) Sida petrophila  London rocket Sisymbrium irio*  Quena+ Solanum esuriale  Fuzzweed+ Vittadinia cuneata sens. lat.  Herbs / ferns  Pimpernel Anagallis arvensis*  Capeweed Arctotheca calendula*  Small vanilla-lily+ Arthropodium minus  Tarvine+ Boerhavia dominii  Variable daisy Brachyscome ciliaris var. lanuginosa  Golden lily+ Bulbine bulbosa  Leek lily Bulbine semibarbata  Blue fairy orchid Caladenia caerulea  Pink fingers Caladenia carnea  Small purslane Calandrinia eremaea  Garland lily Calostemma purpureum  Caustic weed+ Chamaesyce drummondii  Rock fern Cheilanthes austrotenuifolia  Rock fern Cheilanthes sieberi subsp. sieberi  Australian bindweed+ Convolvulus erubescens  Crassula colorata var. acuminata  Native carrot Daucus glochidiatus  Kidney weed Dichondra species A  Nodding chocolate-lily+ Dichopogon fimbriatus  Blue crowsfoot Erodium crinitum  Seranium solanderi var.	Thorny saltbush+ (NW)	Rhagodia spinescens
Black roly-poly+  Silver cassia+  Silver cassia+  Silver cassia+  Silver cassia+  Corrugated sida+  Rock sida+ (NW)  Sida petrophila  London rocket  Sisymbrium irio*  Quena+  Fuzzweed+  Vittadinia cuneata sens. lat.  Herbs / ferns  Pimpernel  Anagallis arvensis*  Capeweed  Arctotheca calendula*  Small vanilla-lily+  Arthropodium minus  Tarvine+  Boerhavia dominii  Variable daisy  Brachyscome ciliaris var.  lanuginosa  Golden lily+  Bulbine bulbosa  Leek lily  Bulbine semibarbata  Blue fairy orchid  Caladenia careulea  Pink fingers  Caladenia carnea  Small purslane  Calandrinia eremaea  Garland lily  Calostemma purpureum  Caustic weed+  Chamaesyce drummondii  Rock fern  Cheilanthes austrotenuifolia  Rock fern  Cheilanthes sieberi subsp.  sieberi  Australian bindweed+  Convolvulus erubescens  Crassula colorata var.  acuminata  Native carrot  Daucus glochidiatus  Kidney weed  Dichondra repens  Kidney weed  Dichondra species A  Nodding chocolate-lily+  Dichopogon fimbriatus  Blue crowsfoot  Erodium crinitum  Geranium solanderi var.	Slender dock	Rumex brownii
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Native geranium  Geranium solanderi var.		
Native deranium	blue crowstoot	
	Native geranium	solanderi
Silky glycine Glycine canescens		Glycine canescens
Twining glycine <sup>+</sup> Glycine clandestina	Twining glycine <sup>+</sup>	Glycine clandestina

Common name	Scientific name
Variable glycine+	Glycine latifolia
Variable glycine	Glycine tabacina
Stinking pennywort	Hydrocotyle laxiflora
Smooth catsear	Hypochaeris glabra*
Burr medic	Medicago polymorpha*
Common onion orchid	Microtis unifolia
Wood sorrel <sup>+</sup>	Oxalis chnoodes
Yellow wood sorrel	Oxalis perennans
Proliferous pink	Petrorhagia nanteuilii*
Sago weed <sup>+</sup>	Plantago cunninghamii
Common pigweed <sup>+</sup>	Portulaca oleracea
Midget greenhood orchid	Pterostylis mutica
Small-flowered	Ranunculus sessiliflorus var.
buttercup	sessiliflorus
Pink tongues+	Rostellularia adscendens
i iik torigues	subsp. adscendens
Common sowthistle	Sonchus oleraceus*
Creamy candles+	Stackhousia monogyna
Chickweed	Stellaria media*
Slender sun orchid	Thelymitra pauciflora
Haresfoot clover	Trifolium arvense*
Tufted bluebell	Wahlenbergia communis
River bluebell <sup>+</sup>	Wahlenbergia fluminalis
Native bluebell <sup>+</sup>	Wahlenbergia luteola
Native bluebell <sup>+</sup> (SE)	Wahlenbergia victoriensis
Grasses / sedges	
Silvery hairgrass	Aira cupaniana*
Bunch wiregrass+	Aristida behriana
Wiregrass <sup>+</sup>	Aristida muricata
Dla ina nua aat	Aristida ramosa var.
Purple wiregrass+	speciosa
Ringed wallaby grass	Austrodanthonia caespitosa
Wallaby grass	Austrodanthonia racemosa
Small-flowered wallaby	At
grass <sup>+</sup>	Austrodanthonia setacea
Plains grass+	Austrostipa aristiglumis
Foxtail speargrass+	Austrostipa densiflora
Feather speargrass+	Austrostipa elegantissima
Stout bamboo grass+	Austrostipa ramosissima
Rough speargrass	Austrostipa scabra subsp. falcata
Rough speargrass+	Austrostipa scabra subsp. scabra
Slender bamboo-grass+	Austrostipa verticillata
Corkscrew grass	Austrostipa setacea
Wakool speargrass+ (SE)	Austrostipa wakoolica
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Common name	Scientific name
Pitted bluegrass+	Bothriochloa decipiens
Red-leg grass+	Bothriochloa macra
Shivery grass	Briza minor*
Great brome	Bromus diandrus*
Tall sedge <sup>+</sup>	Carex appressa
Sedge <sup>+</sup> (SE)	Carex incomitata
Windmill grass+	Chloris truncata
Button grass+	Dactyloctenium radulans
Queensland bluegrass+	Dichanthium sericeum
Cotton panic grass+	Digitaria brownii
Finger grass	Digitaria diffusa
Spreading umbrella grass <sup>+</sup>	Digitaria divaricatissima
Common wheatgrass+	Elymus scaber var. scaber
Bottlewashers <sup>+</sup>	Enneapogon spp.
Windmill grass+	Enteropogon acicularis
Canegrass <sup>+</sup>	Eragrostis australasica
Weeping lovegrass+	Eragrostis parviflora
Slender cupgrass+	Eriochloa procera
Rush <sup>+</sup>	Juncus flavidus
Rush	Juncus remotiflorus
Umbrella Canegrass+	Leptochloa digitata
Perennial ryegrass	Lolium perenne*
Many-flowered mat- rush <sup>+</sup>	Lomandra multiflora subsp. multiflora
Meadow rice-grass	Microlaena stipoides var. stipoides
Long-leaved wallaby grass <sup>+</sup> (SE)	Notodanthonia longifolia
Native millet <sup>+</sup>	Panicum decompositum
Pepper grass+	Panicum laevinode
Pale summer-grass+	Paspalidium albovillosum
Tussock grass+	Poa labillardieri var. Iabillardieri
Kangaroo grass+	Themeda australis



Key indicator species from Final Determination are marked + (diagnostic species in **BOLD**). Weed species are marked \*. Common names are as per Royal Botanic Gardens, see: http://plantnet.rbgsyd.nsw.gov.au
Additional species are from Porteners (2007), Benson (2008) and Armstrong, Porteners & Koen (2009) (see references).
SE = south to east of EEC range; NW = north to west of EEC range.



## For further help

This and other EEC guidelines are available on the DECCW website at threatenedspecies.environment.nsw.gov.au/tsprofile/home\_tec.aspx or www.environment.nsw.gov.au/pnf/eecfieldidguidelines.htm

The resources listed below also provide information on NSW plants, native vegetation and EECs.

- Botanic Gardens Trust plant identification help: www.rbgsyd.nsw.gov.au/plant\_info/identifying\_plants/
- Department of Environment, Climate Change and Water threatened species profiles: www.threatenedspecies.environment.nsw.gov.au/tsprofile/home\_species.aspx
- information on bioregions of New South Wales (determinations use IBRA version 4 boundaries): www.environment.nsw.gov.au/bioregions/Bioregions.htm
- NSW Scientific Committee determinations: www.environment.nsw.gov.au/committee/ListofScientificCommitteeDeterminations.htm
- Armstrong, R.C., Porteners, M.F. & Koen, T. (2009) Identification, Prioritisation and Conservation Management Recommendations for Endangered Ecological Communities in the Narromine, Dubbo and Wellington Local Government Areas. A report to the Central West Catchment Management Authority. (NSW Department of Environment and Climate Change: Dubbo).
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