

Carbon + Biodiversity Pilot

Planting Protocol: Fitzroy Basin NRM Region (Queensland)



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Acknowledgement of Country

We acknowledge the Traditional Owners of Country throughout Australia and their continuing connection to land, sea and community. We pay our respects to them and their cultures and to their elders past, present and emerging.

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Introduction

This document details the eligibility, design, establishment and maintenance conditions that apply to environmental planting projects under the Carbon + Biodiversity Pilot Program (C+B Pilot). It is intended to complement the program guidelines available on the [C+B Pilot website](#).

The conditions that apply to projects in the Fitzroy Basin Natural Resource Management (NRM) region are contained in Tables 1-4 below in the third column, titled 'C+B Pilot conditions – Fitzroy Basin (Qld)'. The conditions fall into two categories: mandatory (expressed in the tables as 'must') and recommended (expressed as 'should'). All projects must comply with the mandatory conditions. Compliance with the recommended conditions is not mandatory. Words and phrases in italics have defined meanings, which are provided below the first usage of the relevant word or phrase and in the Glossary below the tables.

Further advice on any of the conditions listed here can be obtained from the Department of Agriculture, Water and the Environment, at agstewardship@awe.gov.au.

To assist proponents, the second column, titled 'Emissions Reduction Fund requirements', provides a summary of key requirements that apply to environmental planting projects under the Emissions Reduction Fund (ERF). These are not intended to be comprehensive. For more information on the ERF, proponents should visit the [Clean Energy Regulator's website](#) (see [here](#) for additional information on the ERF environmental plantings method). You can also contact the Clean Energy Regulator by email at enquiries@cleanenergyregulator.gov.au or by phone on 1300 553 542.

For the avoidance of doubt, C+B Pilot projects must comply with both the [ERF requirements](#) and the [C+B Pilot conditions](#) in Tables 1-4 below (third column).

People interested in participating in the C+B Pilot should contact their regional NRM group for advice on the establishment and management of plantings. For the Fitzroy Basin, your NRM group is:

Fitzroy Basin Association
Website: <https://www.fba.org.au/>
Email: daniel.boshoff@fba.org.au
Phone: 0418 814 999

Table 1. Eligibility conditions

Consideration	Emissions Reduction Fund requirements	C+B Pilot conditions – Fitzroy Basin (Qld)
Area	Must consist of more than a single row of plantings.	The aggregate area of <i>plantings</i> in a project must be between 5-200 hectares.
Newness and additionality	<ul style="list-style-type: none"> The plantings must be new and the project activity, including site preparation, must not commence until the project is registered under the ERF. The plantings must not be required to be carried out under a law of the Commonwealth, a State or a Territory. The project must not be used to meet a statutory obligation to offset the adverse impacts of another development. 	<p>No relevant eligibility conditions.</p> <p>*In applying to participate in the C+B Pilot, proponents must not include the cost of management actions that are required to be carried out under a law of the Commonwealth or a State or Territory, or are already funded under another Commonwealth, State, Territory or local government environment program.</p>
Land use history	<ul style="list-style-type: none"> The planting area must have been clear of forest cover for at least 5 years prior to the date of application. The planting area must not contain woody biomass or an invasive native scrub species that needs to be cleared for planting to occur, other than a known weed species required or authorised by law to be cleared. The planting area must not have been previously illegally cleared of native forest, or have contained a wetland that was illegally drained. The planting area must not have been legally cleared of native forest, or have contained a wetland that was legally drained, within the previous 7 years (or 5 years if there has been a change of ownership). 	No relevant eligibility conditions.
Regulatory approvals	Proponents must obtain all relevant regulatory approvals that are necessary to enable the project to be undertaken. Regulatory approvals are approvals required under a law of the Commonwealth, a State or a Territory relating to the environment, water or land use and development.	Projects must be able to be registered as an eligible offsets project under the ERF's <i>Carbon Credits (Carbon Farming Initiative) (Reforestation by Environmental or Mallee Plantings—FullCAM) Methodology Determination 2014</i> .
Legal right to carry out project and consents from other parties	Proponents must have the legal right to carry out the project on the land. Proponents must obtain written consent to undertake the project from any person who holds an 'eligible interest' in the land.	No relevant eligibility conditions.

Consideration	Emissions Reduction Fund requirements	C+B Pilot conditions – Fitzroy Basin (Qld)
	<p>'Eligible interests' cover a range of interests held in relation to land, including estates and other registered proprietary interests (e.g. leases, easements and covenants), and mortgages and charges held over the land by a bank, financial institution or other party.</p>	
NRM specific requirements	<p>If the project area is covered by a regional NRM plan, the application for registration under the ERF must state whether the project is consistent with the plan.</p>	No relevant eligibility conditions.

Table 2. Planting design conditions

Consideration	Emissions Reduction Fund requirements	C+B Pilot conditions – Fitzroy Basin (Qld)
Prohibited planting areas	See Table 1, Land use history.	<p><i>Plantings must</i> not occur in:</p> <ul style="list-style-type: none"> • areas that did not naturally support <i>trees</i> and <i>shrubs</i> (e.g. some wetlands, grasslands); or • ecological communities listed as threatened under relevant State, Territory or Commonwealth legislation (e.g. Natural Temperate Grassland); or • <i>utility easements</i>. <p><i>Utility easements</i> are areas of land that utility providers are legally entitled to use and access for the purposes of providing utility services (e.g. electricity, gas, telecommunications and sewerage).</p>
Uniformity of land	The ERF does not require the land included in planting areas to have particular biophysical characteristics. However, under the ERF, planting areas must be mapped and modelled as carbon estimation areas (CEAs). CEAs must meet the uniformity requirements under the environmental plantings method, which require the land in a CEA to: (i) have uniform site characteristics in relation to soil type, aspect and slope; (ii) be planted with the same combination of plant species; and (iii) be established and managed under the same land management regime, including in relation to preparation. Proponents should consider these factors in designing their plantings as it will help reduce the complexity and cost associated with reporting under the ERF.	No additional conditions.
Plant species composition	<p>Plantings must consist of a mixture of tree and shrub species that:</p> <ul style="list-style-type: none"> • are native to the local area of the planting; and • are sourced from seeds from within the natural distribution of the species and are appropriate to the biophysical characteristics of the area of the planting. <p>Plantings may be a mix of trees, shrubs and understorey species that reflect the structure and composition of the local native vegetation community.</p>	<p>Plantings must be either a <i>local vegetation community planting</i>[^] or a <i>simple mixed native planting</i>.</p> <p>A <i>local vegetation community planting</i> is a planting that:</p> <ul style="list-style-type: none"> • as far as practical given the <i>planting density</i>, <i>tree proportion</i> and crown cover requirements, reflects the structure and composition of the relevant local vegetation community or communities*; and • consists of at least two species of <i>trees</i> and four species of <i>shrubs</i> from that vegetation community or those communities.

Consideration	Emissions Reduction Fund requirements	C+B Pilot conditions – Fitzroy Basin (Qld)
		<p><i>A simple mixed native planting</i> is a <i>planting</i> that:</p> <ul style="list-style-type: none"> • as far as practical given <i>planting density, tree proportion</i> and crown cover requirements, performs similar ecological functions to the relevant local vegetation community or communities and generates benefits for local native biodiversity; and • consists of at least two species of <i>trees</i> and four species of <i>shrubs</i> that are native to the local area. <p>For the avoidance of doubt, <i>plantings</i> should include <i>ground cover species</i> where possible.</p> <p>[^] <i>Local vegetation community plantings</i> will receive higher biodiversity benefit scores, all else being equal.</p> <p>*See Appendix for resources to assist in identification of relevant vegetation communities.</p> <p><i>Trees</i> are woody plants that at maturity are generally more than 2m tall and either have a single <i>stem</i> with branches well above the base or, if multi-stemmed from the base (or within 20cm from ground level), their largest <i>stem</i> typically has a diameter greater than 5cm measured 130cm above the ground.</p> <p><i>A stem</i> is the ascending axis of a plant and is generally the main structural component of the above-ground portion of <i>trees</i> and <i>shrubs</i>.</p> <p><i>Shrubs</i> are woody plants that are:</p> <ul style="list-style-type: none"> • generally less than 2m tall if single-stemmed; or • if multi-stemmed from the base (or within 20cm from ground level), are generally less than 2m tall or, if more than 2m tall, their largest <i>stem</i> typically has a diameter less than 5cm measured 130cm above the ground. <p><i>Ground cover species</i> are herbaceous (non-woody) plants, including grasses and forbs.</p> <p>Proponents should consider the following with respect to species composition:</p> <ul style="list-style-type: none"> • drought resilience and the potential effects of climate change;*

Consideration	Emissions Reduction Fund requirements	C+B Pilot conditions – Fitzroy Basin (Qld)
		<ul style="list-style-type: none"> the availability of tubestock and seed from local nurseries and seed suppliers; that a diverse and dense mid-storey provides benefits for native birds; and that ground cover plants require effective control of introduced plant species to achieve high survival rates. <p>*For further information on considering climate change in your <i>plantings</i>, see the publication <i>Climate ready revegetation: A guide for natural resource managers</i>.</p>
Stem density and tree proportion	<p>Plantings must have a stocking density:</p> <ul style="list-style-type: none"> of at least 200 stems per hectare; and that can achieve forest cover. <p>*Stocking densities affect the way carbon stocks are modelled. Three generic model calibrations are available to estimate carbon stocks, which depend on the type of planting geometry:</p> <ul style="list-style-type: none"> belt high density generic calibration – must be a belt planting with >1500 stems per hectare; belt low density generic calibration – must be a belt planting with between 200-1500 stems per hectare; and block generic calibration – must be a block planting with ≥ 200 stems per hectare. <p>C+B Pilot projects that model carbon stocks using the block generic calibration and are declared to be alternative assurance projects will not be required to have scheduled third party audits under the ERF. These projects can still be subject to other ERF audits, including compliance audits.</p>	<p><i>Tree and shrub plantings must:</i></p> <ul style="list-style-type: none"> be no more than 5m apart, measured from stem-to-stem; have a <i>stocking density</i> of at least 400 stems per hectare; have a <i>tree proportion</i> of between 50% and 70%; and be planted such that each 0.2 hectare portion of the <i>planting area</i> has <i>forest potential</i>. <p>For the avoidance of doubt, <i>groundcover species</i> are not included in stem counts for these purposes.</p> <p><i>Tree proportion</i> means the proportion of individual live <i>trees</i> relative to the total of individual live <i>trees</i> and <i>shrubs</i> in a <i>planting</i>.</p> <p>A 0.2 hectare portion of a <i>planting area</i> has <i>forest potential</i> if the planted <i>trees</i> have the potential to reach 2m or more in height and provide crown cover of at least 20% of the portion.</p>
Dimensions of planting	<p>Plantings can be either belt or block plantings.</p> <ul style="list-style-type: none"> Belt plantings are plantings in a belt configuration that are ≤ 40m wide, are at least 40m from the nearest other planting (stem-to-stem) and are not affected by material competition from adjacent trees. Block plantings are plantings that do not meet the requirements of a belt planting and consist of more than a single row of trees or shrubs. <p>* C+B Pilot projects can be either belt or block plantings. However, to be eligible</p>	<p>Individual <i>planting areas</i> must be at least 0.25 hectares ($2500m^2$).</p> <p>The average width of <i>plantings</i> in a belt configuration must be at least 30m (stem-to-stem) on the short axis of the <i>planting</i>.</p>

Consideration	Emissions Reduction Fund requirements	C+B Pilot conditions – Fitzroy Basin (Qld)
	to be declared an alternative assurance project under the ERF (and thereby have no scheduled third party ERF audits), proponents must model the carbon stocks using the block generic calibration.	
Distance from other vegetation, including plantings	<p>The distance to other vegetation determines whether plantings are able to be modelled as belt plantings. Belt plantings must be at least 40m from the nearest other planting (stem-to-stem) and they must not be affected by material competition from adjacent trees. Adjacent trees are trees that lie within 20m of the stems of the closest project tree. There are rules for when adjacent trees are deemed to be causing material competition.</p> <p>These requirements do not apply to block plantings.</p>	No additional conditions.
Surrounding vegetation in the landscape	<p>No requirement.*</p> <p>*Proximity to other vegetation affects whether plantings meet the definition of belt plantings and can apply the belt calibrations when modelling abatement.</p>	No additional conditions.
Fire risk	<p>No specific requirements concerning the design of plantings. However, participants are required to provide a permanence plan that explains the steps that will be undertaken to ensure carbon remains stored in the project area for the permanence obligation period.</p> <p>See Table 4 below for requirements concerning fire management during the permanence obligation period.</p>	<p><i>Planting areas:</i></p> <ul style="list-style-type: none"> • must not be within 50m of buildings used for residential or commercial purposes; and • should not be within 50m of any other buildings.
Regulatory compliance	See Table 1, Regulatory approvals.	Plantings must be sited, established and managed in accordance with all applicable Commonwealth and State laws relating to planning, environment and heritage.
Workplace health and safety	No requirement.	Proponents should prepare a workplace health and safety plan for their project.
Cultural heritage	No requirement.	In siting, establishing and managing <i>plantings</i> , proponents should consider cultural heritage impacts and follow relevant Commonwealth, State and local guidelines concerning the protection and management of cultural heritage sites. Contact your regional NRM group for further information.

Table 3. Establishment conditions

Consideration	Emissions Reduction Fund requirements	C+B Pilot conditions – Fitzroy Basin (Qld)
Establishment method	Plantings must be established using propagated seedling stock (tubestock) or direct seeding.	No additional conditions
Site preparation – weed control	Not specified.	Where weed control is carried out using herbicides, the herbicides must be applied in accordance with all applicable Commonwealth and State laws and the manufacturer's instructions. * *Please refer to State Biosecurity Invasive Plant and Animal Fact Sheets for more information.
Site preparation – soil	Not specified.	Soil preparation must not be done by deep-ripping or other mechanical methods that involve significant soil disturbance (e.g. mound ploughing) in <i>planting</i> areas with significant biodiversity or natural or cultural heritage values, including areas that contain remnant native vegetation, old native <i>trees</i> , patches of native grass or sites of Indigenous cultural significance.
Site preparation – total grazing pressure	Not specified.	All livestock grazing must be excluded until the <i>tree plantings</i> have become established (approximately 1.5m tall). Vertebrate pests and overabundant native species (including kangaroos) should be managed where they present a threat to the establishment of the plantings. In managing overabundant native vertebrate species, preventative control measures (e.g. fencing and guards) should be prioritised over lethal control and any lethal control must only be to the extent necessary to protect the plantings. All vertebrate pest and overabundant native vertebrate species management must be undertaken in accordance with applicable Commonwealth, State and local laws and guidelines.
Timing	Not specified.	Where possible, <i>plantings</i> should be undertaken to coincide with periods of high soil moisture. *Consult your Fitzroy Basin Association representative for more information.
Tree protection	No requirement. *Where grazing or another event kills the plantings in $\geq 5\%$ of the planting area, the proponent is required to notify the Clean	<i>Plantings</i> should be protected from livestock and other herbivores. If fencing is used:

Consideration	Emissions Reduction Fund requirements	C+B Pilot conditions – Fitzroy Basin (Qld)
	Energy Regulator and take actions to mitigate the impacts of the disturbance. This may require the area to be replanted. Proponents will also be required to re-stratify the carbon estimation area.	<ul style="list-style-type: none"> the top strand of wire around <i>plantings</i> must not be barbed to reduce the chance of wildlife entanglement; and it should be erected prior to <i>planting</i> or direct seeding.
Watering	No requirement.	Proponents should consider watering <i>plantings</i> , particularly tubestock <i>plantings</i> , at the time of establishment.

Table 4. Maintenance

Consideration	Emissions Reduction Fund requirements	C+B Pilot conditions – Fitzroy Basin (Qld)
Longevity	Plantings must be maintained for a permanence period of either 25 or 100 years, which commences when the first ACCUs are issued to the project. Proponents can choose a 25- or 100-year permanence period when submitting a project registration application. The permanence period cannot be varied.	<i>Plantings must be protected and maintained for the C+B permanence period.</i> The <i>C+B permanence period</i> means the 25-year period commencing on the day the project is registered under the ERF.
Remedial planting	Remedial plantings may be required if a planting has failures that impact the carbon stocks and the planting's ability to achieve forest cover. This will affect the planting and modelling date. Proponents must keep a record of any remedial plantings.	Throughout the <i>C+B permanence period</i> , each 0.2 hectare portion of the <i>planting area</i> should have either <i>forest potential</i> or <i>forest cover</i> . <i>Remedial plantings</i> should be established in a <i>planting area</i> if mortality results in a 0.2 hectare portion of a <i>planting area</i> no longer having <i>forest potential</i> or <i>forest cover</i> . A 0.2 hectare portion of a <i>planting area</i> has <i>forest cover</i> if the planted <i>trees</i> are 2m or more in height and provide crown cover of at least 20% of the portion. <i>Remedial plantings</i> should be established in a <i>planting area</i> if: <ul style="list-style-type: none">• it was originally designed to reflect the structure and composition of the relevant local vegetation community or communities; and• mortality results in the <i>planting</i> no longer reflecting the structure and composition of the relevant local vegetation community or communities. <i>Remedial plantings</i> should be established in a <i>planting area</i> if: <ul style="list-style-type: none">• it was originally designed to perform similar ecological functions to the relevant local vegetation community or communities and generate benefits for local native biodiversity; and• mortality results in the <i>planting</i> no longer performing similar ecological functions to the relevant local vegetation community or communities and generating benefits for local native biodiversity.
Harvesting and other biomass removal	Plantings must not be harvested other than: <ul style="list-style-type: none">• thinning for ecological purposes;• to remove debris for fire management;	Plantings must not be harvested or otherwise cleared, other than thinning for ecological purposes where: <ul style="list-style-type: none">• the <i>planting</i> was originally designed to reflect the structure and

Consideration	Emissions Reduction Fund requirements	C+B Pilot conditions – Fitzroy Basin (Qld)
	<ul style="list-style-type: none"> to remove firewood, fruit, nuts, seeds, or material used for fencing or as craft materials, if those things are not for sale; or in accordance with traditional Indigenous practices or native title rights. <p>No more than 10% of fallen timber may be removed from a CEA in a calendar year for personal use.</p>	<p>composition of the relevant local vegetation community or communities and the <i>thinning</i> is necessary to ensure the <i>planting</i> achieves this objective; or</p> <ul style="list-style-type: none"> the <i>planting</i> was originally designed to perform similar ecological functions to the relevant local vegetation community or communities and generate benefits for local native biodiversity and the <i>thinning</i> is necessary to ensure the <i>planting</i> achieves this objective; and approval is obtained from the Department of the Agriculture, Water and the Environment before the <i>thinning</i> commences. <p>All fallen timber must be left within the <i>planting</i>. Any fallen timber that is moved from firebreaks, access tracks or fences must be placed within the <i>planting</i> area.</p>
Total Grazing Pressure post-establishment	<p>Livestock grazing is permitted provided it does not affect the achievement or maintenance of forest cover in a CEA.</p>	<p>Total grazing pressure must be managed to protect the biodiversity values of the site.</p> <p>Livestock grazing:</p> <ul style="list-style-type: none"> must not be undertaken until the <i>plantings</i> have become established (approximately 1.5m tall); must be limited to pulse or crash grazing; and must not be undertaken if it adversely affects the <i>plantings</i> or their biodiversity values. <p>Management of overabundant native vertebrate species (including kangaroos) should be undertaken only where they present a threat to the biodiversity value of the site. Where possible, preventative control measures (e.g. fencing and guards) should be prioritised over lethal control and any lethal control must only be to the extent necessary to protect the biodiversity values of the site.</p> <p>All vertebrate pest and overabundant native vertebrate species management must be undertaken in accordance with applicable Commonwealth, State and local laws and guidelines.</p> <p>Fences and other <i>tree</i> protection measures should be well maintained to ensure the exclusion of livestock and other overabundant native vertebrates.</p>

Consideration	Emissions Reduction Fund requirements	C+B Pilot conditions – Fitzroy Basin (Qld)
Invertebrate pest control	Invertebrate pests should be managed as necessary to meet the requirements of the permanence plan.	Invertebrate pests should be managed where necessary to protect the present and future biodiversity value of the site. Where pest control is carried out using pesticides, the pesticides must be applied in accordance with all applicable Commonwealth and State laws and the manufacturer's instructions.
Fire	<p>Fire should be managed as necessary to meet the requirements of the permanence plan.</p> <p>If there is a fire that affects the sequestered (stored) carbon, the proponent must:</p> <ul style="list-style-type: none"> • take all reasonable steps to prevent the on-going loss of the sequestered carbon; • identify the impacted area and quantify the impact; and • notify the Clean Energy Regulator of the disturbance within 60 days. <p>Prescribed burning is permitted but the greenhouse gas emissions from these burns must be accounted for and, if a burn kills the plantings, steps must be taken to mitigate the impacts (this may include remedial plantings).</p>	Fire must not be intentionally introduced to the <i>planting</i> if it is likely to adversely affect the biodiversity values of the site, unless it is critical to the protection of life or property.
Watering	No additional requirement but watering should be considered to reduce tree and shrub mortality where necessary.	Proponents should consider watering <i>plantings</i> (particularly tubestock <i>plantings</i>) during the first summer after <i>planting</i> if there is inadequate rainfall.
Ongoing consistency with NRM plans	If a registered ERF project is changed and, as a consequence, it becomes inconsistent with an applicable regional NRM plan, the proponent must notify the Clean Energy Regulator within 90 days.	No additional conditions.

References

Carbon Credits (Carbon Farming Initiative) (Reforestation by Environmental or Mallee Plantings—FullCAM) Methodology Determination 2014 (Cth)
<https://www.legislation.gov.au/Details/F2018C00118>.

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Glossary

Defined terms under the C+B Pilot

C+B permanence period means the 25-year period commencing on the day the project is registered under the ERF.

ERF means the Emissions Reduction Fund. The Emissions Reduction Fund is a voluntary offset certification scheme established under the *Carbon Credits (Carbon Farming Initiative) Act 2011* (Cth).

Forest cover—in relation to the C+B Pilot, a 0.2 hectare portion of a planting area has forest cover if the planted trees are 2m or more in height and provide crown cover of at least 20% of the portion.

Forest potential—in relation to the C+B Pilot, a 0.2 hectare portion of a planting area has forest potential if the planted trees have the potential to reach 2m or more in height and provide crown cover of at least 20% of the portion.

Ground cover species means species of herbaceous (non-woody) plants, including grasses and forbs.

Local vegetation community planting means a planting that:

- as far as practical given the planting density, tree proportion and crown cover requirements, reflects the structure and composition of the relevant local vegetation community or communities; and
- meets the minimum local tree and shrub species requirements outlined in Table 2.

Planting means:

- as a verb, to put or set in the ground tree, shrub and (where relevant) ground cover species using propagated seedling stock or direct seeding; and
- as a noun, an area of trees, shrubs and (where relevant) ground cover species established using propagated seedling stock or direct seeding.

Planting area means the area of land on which plantings are established under the C+B Pilot in accordance with the requirements of the Planting Protocol.

Stocking density means the number of live individual trees or shrubs per hectare in a planting area.

Shrub means a species of woody plant that:

- is generally less than 2m tall if *single-stemmed*; or
- if *multi-stemmed* from the base (or within 20cm from ground level), is generally less than 2m tall or, if more than 2m tall, its largest stem typically has a diameter less than 5cm measured 130cm above the ground.

Simple mixed native planting means is a planting that:

- as far as practical given planting density, tree proportion and crown cover requirements, performs similar ecological functions to the relevant local vegetation community or communities and generates benefits for local native biodiversity; and
- meets the minimum local tree and shrub species requirements outlined in Table 2.

Stem, in relation to the C+B Pilot, means the ascending axis of a plant and is generally the main structural component of the above-ground portion of trees and shrubs.

Thinning means the selective removal of trees or shrubs for ecological purposes, including to maintain species diversity or ground cover.

Tree, in relation to the C+B Pilot, means a species of woody plant that at maturity is generally more than 2m tall and either has a single stem with branches well above the base or, if multi-stemmed from the base (or within 20cm from ground level), its largest stem typically has a diameter greater than 5cm measured 130cm above the ground.

Tree proportion means the proportion of individual live trees relative to the total of individual live trees and shrubs in a planting.

Utility easement means an area of land that utility providers are legally entitled to use and access for the purposes of providing utility services (e.g. electricity, gas, telecommunications and sewerage).

Summary of key defined terms relevant to the ERF Environmental Plantings Method

Set out below is a summary of key terms and phrases that are used in, or in relation to, the ERF's Environmental Plantings Method. Where only a summary is provided, references are provided to the statutory instrument(s) that contain the full definition. Readers should note that terms and phrases that are defined under the ERF do not necessarily have the same meaning under the C+B Pilot. Key terms and phrases that have different meanings under the C+B Pilot are marked below with an asterisk ().*

Belt plantings are plantings in a belt configuration that are at least 40m wide, are at least 40m from the nearest other planting (stem-to-stem) and are not affected by material competition from adjacent trees. For the full definition, see *Carbon Credits (Carbon Farming Initiative) (Reforestation by Environmental or Mallee Plantings—FullCAM) Methodology Determination 2014*.

Block plantings are non-belt plantings, other than plantings consisting of a single row. For the full definition, see *Carbon Credits (Carbon Farming Initiative) (Reforestation by Environmental or Mallee Plantings—FullCAM) Methodology Determination 2014*.

Eligible interest, in relation to an offset project under the ERF, refers to a range of interests held in relation to land, including estates and other registered proprietary interests (e.g. leases, easements and covenants), and mortgages and charges held over the land by a bank, financial institution or other party. For the full definition, see sections 43, 44, 45 and 45A of the *Carbon Credits (Carbon Farming Initiative) Act 2011* (Cth).

Eligible interest holder, in relation to an offset project under the ERF, means a person who holds an eligible interest in the land on which the project is located.

Forest means land of a minimum area of 0.2 of a hectare on which trees:

- (a) have attained, or have the potential to attain, a crown cover of at least 20% across the area of land; and
- (b) have reached, or have the potential to reach, a height of at least 2 metres.

Forest cover*—land has **forest cover** if the vegetation on the land includes trees that:

- (a) are 2 metres or more in height; and
- (b) provide crown cover of at least 20% of the land.

Forest potential*—land has **forest potential** if:

- (a) the land has an area of at least 0.2 hectares; and
- (b) the vegetation on the land includes trees that have the potential:
 - (i) to reach 2 metres or more in height; and
 - (ii) to provide crown cover of at least 20% of the land.

FullCAM means the Full Carbon Accounting Model, a calculation tool used by the Australian Government to model Australia's greenhouse gas emissions from the land

sector and to model emissions and removals from vegetation projects under the ERF. For further information, see [here](#).

Planting means:

- (a) as a verb, to put or set in the ground species that are eligible under the *Carbon Credits (Carbon Farming Initiative) (Reforestation by Environmental or Mallee Plantings—FullCAM) Methodology Determination 2014* using:
 - (i) propagated seedling stock; or
 - (ii) direct seeding, including in rows or broadcast;for the purposes of growing project trees;
- (b) as a noun, an area of project trees established using direct seeding or propagated seedling stock.

Regulatory approval, in relation to an offset project under the ERF, means an approval, licence or permit (however described) that:

- (a) relates to, or to an element of, the project; and
- (b) is required under a law of the Commonwealth, a State or Territory that relates to:
 - (i) land use or development; or
 - (ii) the environment; or
 - (iii) water.

Shrub* means a perennial plant that has primary supporting structures consisting of secondary xylem and that does not have, or have the potential for its stem diameter to be measured at breast height (DBH), where DBH is defined as 130 centimetres in height.

Stem means the ascending axis of a plant and the main structural component of the above-ground portion of trees and shrubs.

Stocking density* means the number of live individual trees or shrubs per hectare in a carbon estimation area and/or the number of live individual seedlings or seeds per hectare at establishment.

Tree* means a perennial plant that has primary supporting structures consisting of secondary xylem and that has, or has the potential to for its stem diameter to be measured at 130 centimetres height (i.e. DBH).

Tree proportion means the proportion of individual live trees relative to the total of individual live trees and shrubs in a mixed-species environmental planting.

Appendix A: Guidance in identifying the relevant local vegetation communities for your planting

This Appendix sets out some sources for information on natural vegetation in your region. The sources selected are generally the most up to date, which are accessible online. It's not a comprehensive list and most parts of Australia are covered by numerous published guides and studies that can also help with plant species selection, particularly for simple mixed native plantings. Sources of native plants and seeds, such as nurseries, can also help, as can your local Natural Resource Management body or Landcare group.

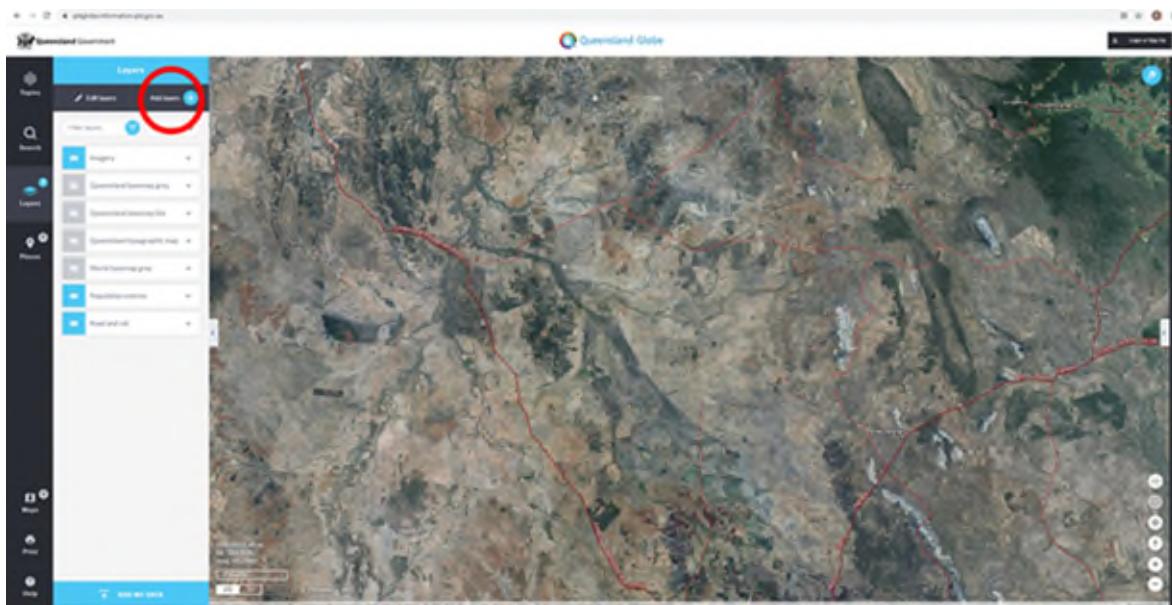
If you have confidence in your understanding of the natural vegetation across your planting areas you may not need more information to decide on an appropriate species mix. For example, if there are enough paddock trees or roadside patches and other reminders of the native vegetation you might have enough to design a local vegetation community planting that closely reflects local ecosystems.

But even if you know your local plants, the data described here, plus other local sources, should be consulted to confirm natural combinations of species in your region, and also to confirm the scientific names and natural range for species you might know best by a common name. The [Atlas of Living Australia](#) is a valuable national resource for biodiversity information.

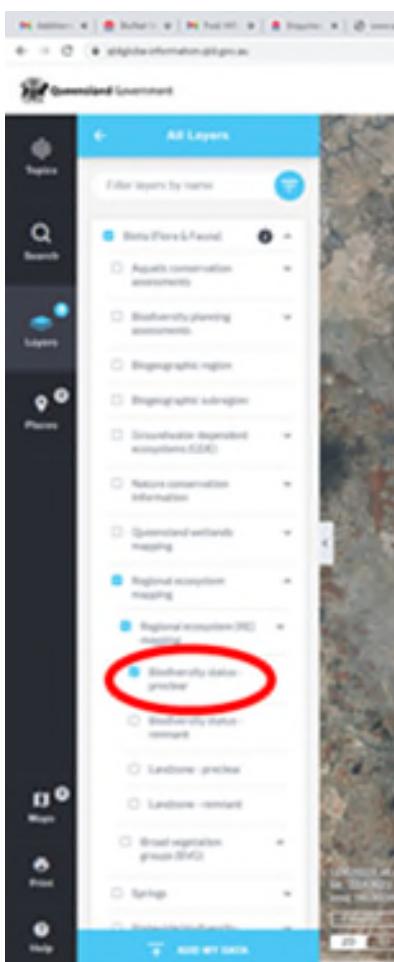
In Queensland, native vegetation is classified and described using Regional Ecosystems (REs). Maps of the pre-clearing extent of Regional Ecosystems can be useful in identifying appropriate mixtures of local species to represent local vegetation communities for planting.

[The Queensland Globe](#) application gives access to RE mapping.

1. After agreeing to terms and conditions, use the search function or map controls to navigate to your planting area.
2. Click “Layers” in the left margin, and then “add layers”.



3. Use the down arrows on the right of the layer panel to expand the “Biota” groups and then “Regional Ecosystem mapping” and “Regional Ecosystem (RE) mapping” groups, and tick the box to turn on the layer called “Biodiversity status – preclear” (you may need to zoom in to a closer scale before the layer draws).



4. The transparency of the RE layer can be adjusted, so you can see landscape features under the data. Click the left arrow in the top blue “Layers” banner to return to the map layer panel, then click the down arrow next to the “Biodiversity status – preclear” layer and use the slider to adjust transparency.
5. RE numbers (which have 3 parts – bioregion, landzone and vegetation, e.g. 11.4.9) can be read off the map. Polygons are often shown as containing more than 1 RE.
6. To access more detailed information on the relative extent of specific RE in mixed polygons click on the spanner button in the top right of the app, select the info tool, and click on the map in each area of interest.
7. Add the remnant RE map layer to locate areas of remaining vegetation on similar landforms to the planting area to use as potential examples of ecosystems like the planting areas were once to visit and assess vegetation structure and relative abundance of species as an aid to planting design.
8. Details of REs can be searched up using their RE number on the [Queensland Government website](#).
9. Select “Search Regional Ecosystem Descriptions”, enter an RE number and click Search.

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> Regional ecosystem descriptions > Search regional ecosystem descriptions

Regional ecosystem descriptions

Search regional ecosystem descriptions

Search the regional ecosystems database using the search form or by selecting a bioregion within one of the landzones. You can also [list all regional ecosystem descriptions](#).

List land zones within bioregion:

Legend

- Brigalow Belt
- Central Coast
- Central Queensland Coast
- Cape York Peninsula
- Central Highlands
- Coastal Shrublands
- Gulf Plains
- Mitchell Grass Downs
- Mallee Lands
- Middle Darling Riverine
- North West Queensland
- South East Queensland
- Urban Fringe

A. Regional ecosystem ID

[List all vegetation communities](#)

B. Ecosystem details

Land zone:

Description:

Vegetation Management Act class:

Biodiversity status:

C. List all regional ecosystem descriptions

10. [Technical descriptions for REs](#) are arranged by Bioregion names. You can find your relevant bioregion by adding the layer to the Qld Globe map (under “Biota (Flora & Fauna”).
11. To find information on species listed in RE descriptions try the [species search tool](#).
12. RE information for larger areas can be delivered in a summarised report on request through a [web form](#).

Questions and feedback

Any questions or feedback about this document should be sent to agstewardship@awe.gov.au or you can contact the [Department of Agriculture, Water and the Environment](#) on 1800 329 055.