

A REVEGETATION GUIDE TO THE
THREATENED GLIDERS
OF SOUTHERN QUEENSLAND



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ABOUT THIS REVEGETATION GUIDE

Habitat restoration benefits not only gliders but also a broad suite of native animals, improving their survival prospects in a rapidly changing environment.

This guide is designed to assist landholders in protecting and recreating habitat for Australia's largest gliding mammals – the southern and central greater glider (*Petauroides volans*) and the yellow-bellied glider (*Petaurus australis*), especially after fire or disasters. It explains how to choose areas for revegetation, what to plant, and how to prepare, maintain, and monitor plantings.

Gliding to extinction

Australia and parts of South-East Asia are home to the world's only gliding marsupials. The smallest glider species (minuscule feathertail gliders) and the largest (robust greater gliders) both rely on the eucalypt forests and woodlands of eastern Australia. Closely related to possums, gliders probably evolved gliding as an energy-efficient way of exploiting the irregular, low-nutrient resources typical of their eucalypt forest homes and of avoiding ground-dwelling predators.

Vegetation clearing, along with a climate change-induced increase in the frequency and severity of bushfires, has driven declines in all glider species. However, greater gliders and yellow-bellied gliders, which are especially sensitive to habitat disturbance, have suffered most. Both greater glider species and all yellow-bellied gliders are now threatened under Commonwealth and Queensland legislation.



It may be years before gliders repopulate burnt areas. As cleared areas form an impassable barrier, some areas may never be recolonised.

The 2019–2020 bushfires were disastrous for large gliders, placing added pressure on populations already in decline. Almost one-third of the greater glider habitat in eastern Australia was affected, and many glider populations are thought to have vanished. But all is not lost ...

Protecting and expanding native vegetation, restoring landscape biodiversity and connectivity, and installing nest boxes does not just benefit gliders. Hollow-dependent glossy black-cockatoos, rosellas, lorikeets, owls, and quolls also need patches of native forest and woodland that are connected by corridors to facilitate movement between areas.

To help all at-risk wildlife survive and thrive, but particularly large gliders and their smaller gliding cousins, we need to replenish native eucalypt forest, ensuring there is enough to support viable populations. Where precious den sites are limited, installing artificial nest boxes and hollows can also attract and support populations of these magnificent gliders.



Ugarapul Traditional Owners refer to large gliders as pan'ka, and the Kabi Kabi know them as bank'kii or mulyir. The Indigenous names poong-goong and warnda have also been recorded for greater gliders.

GREATER GLIDERS

Unlike the smaller, more gregarious sugar and squirrel gliders, greater gliders are solitary animals, maintaining small home ranges of 1 to 9 ha.

Greater gliders live in wet and dry eucalypt forests and open woodlands from north Queensland to Victoria. Two species are currently recognised: the northern greater glider (*Petauroides minor*) north of Bowen in central Queensland, and the southern and central greater glider (*P. volans*) below this. The two species may overlap in a hybridisation zone, but southern Queensland's gliders are all *P. volans*.

In southern Queensland, urbanisation, agriculture and forestry have removed more

than 50% of all remnant vegetation that existed prior to European arrival. Sadly, after greater gliders were listed as a threatened species, destruction of their habitat increased. Greater gliders are now absent or occur at significantly lower numbers in intensively logged sites.

'Teddies' of the treetops

Southern and central greater gliders have huge fluffy ears and long furry tails that are much longer than their bodies. The total body and tail length can reach more than a metre, with these chunky gliders weighing up to 1.7 kg.

Typically, the belly is white or cream while the body fur can range from a dark grey or dusky brown through to a light, mottled grey to almost white. Some populations include

animals of only one colour morph, while others consist of several colours.

Like koalas, greater gliders feed on the leaves of eucalypts and closely related tree species, showing distinct regional preferences for a handful of favoured species.

In southern Queensland, preferred species include spotted gum (*Corymbia citriodora* subsp. *variegata*), pink bloodwood (*C. intermedia*), narrow-leaved red ironbark (*Eucalyptus crebra*) and forest red gum (*E. tereticornis*). Large old trees provide ideal feeding sites because of the regular flushes of new growth, which are thought to provide greater nutrition.

Elbows out

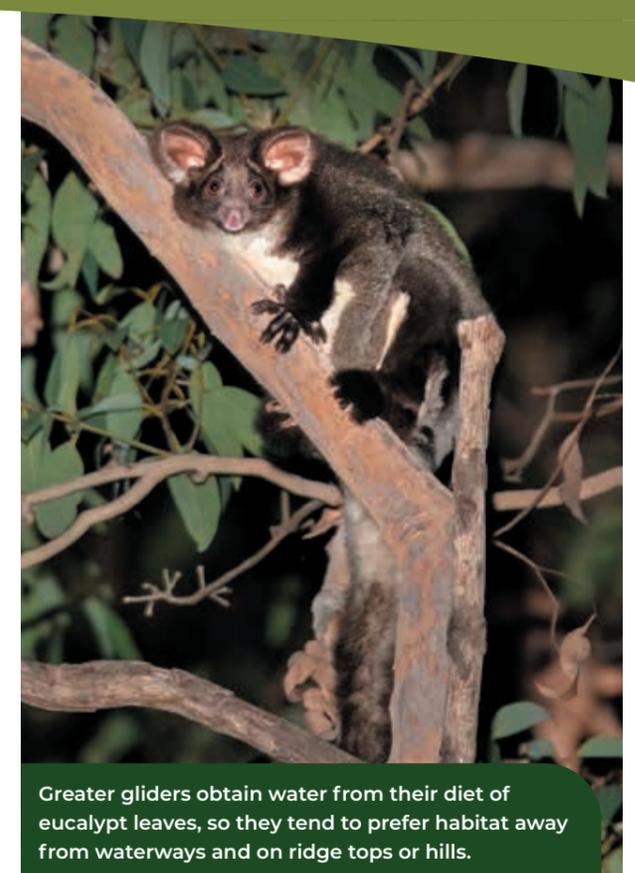
While the smaller petaurid glider species have a gliding membrane – or patagium – that connects to the forelimb at the wrist, the greater glider's two patagia attach at the elbows.

When gliding, greater gliders tuck their front paws under their chins with their elbows held rigidly outwards. Glides may exceed 100 m, and turns of up to 90° are possible during flight.

SLOW BREEDERS

Within its home range, an individual greater glider may use up to 20 tree hollows as denning sites. They share dens only in the breeding season, after which females give birth to a single joey.

Breeding doesn't always occur every year, so population growth is slow, inhibiting recovery and conservation efforts.



Greater gliders obtain water from their diet of eucalypt leaves, so they tend to prefer habitat away from waterways and on ridge tops or hills.

Greater glider abundance is directly related to the availability of suitable hollows. Three to six large hollows per hectare are needed to conserve greater glider populations.



Greater glider 'Wattle' and her baby 'Gizmo' were seen on surveys in the Logan region.

Logging is a major threat to Australia's larger gliders. Inappropriate forestry practices can remove important food resources, destroy den trees, restrict movement between habitat patches, increase the risk of predation, and force gliders to spend more time foraging. Yellow-bellied gliders are particularly susceptible because of their large home ranges and strict dietary preferences.

Pointy lower incisors are used to notch trees and access eucalypt sap, leaving distinctive v-shaped incisions that indicate the presence of yellow-bellied gliders.



For greater and yellow-bellied gliders, gaps of more than 100 m between trees form an impassable barrier. This is detrimental for families of yellow-bellied gliders, whose home ranges may be many tens of hectares. Developments and roads can separate and isolate populations, preventing access to favoured food and denning sites.



The yellow-bellied glider's patagium connects to the wrist of the forelimb, enabling glides of well over 100 m, although glides of 40 m are more typical.

YELLOW-BELLIED GLIDERS

Second only to the greater gliders in size, yellow-bellied gliders (*Petaurus australis*) are the most vocal of Australia's gliding marsupials.

Two recognised subspecies occur patchily throughout the eucalypt forests of eastern Australia. The northern subspecies, locally known as the 'fluffy glider', inhabits far north Queensland, whereas the southern subspecies is found south of Mackay, with a 400 km gap separating the two populations.

Yellow-bellied gliders are dark above with yellow or orange underparts in mature individuals and whitish underparts in juveniles.

They have large bare ears and a fluffy tail that is up to 1.5 times the length of the body. They live in small family or social groups of 2 to 6 individuals. These groups maintain an exclusive home range of 20 to 85 ha. The size of family groups and the extent of the home range are strongly related to habitat quality and food availability.



Yellow-bellied gliders are very territorial. Individuals that invade another group's home range are actively repelled – and sometimes even killed!

Sap specialists

Gum sap is a dietary favourite for yellow-bellied gliders. Only a small number of eucalypt species and individual trees are used for 'sap tapping' with some food trees visited over many years. Other food sources include nectar, honeydew, and insects. Winter-flowering eucalypts are particularly important due to the lack of other foods available at that time of year.

Regeneration is critical to yellow-bellied glider conservation because these gliders occur most commonly in sclerophyll landscapes with woodier vegetation. While plantings take decades to replace remnant vegetation, yellow-bellied gliders are known to use revegetated areas for foraging, particularly if restored habitat is close to old-growth forest.

The vocalisations of this species, which can be heard for hundreds of metres, are used in territorial defence but also to coordinate foraging among group members. Acoustic monitoring is the best way to find these gliders.



Scan to hear their calls!



Imitating the mosaic burn patterns created by Indigenous fire regimes may help safeguard some habitats and prevent extensive, intense blazes like those in 2019–2020.

A HOLLOW LOSS

More than 300 Australian species rely on hollow trees for shelter, protection from predators, and for raising their young. Fire has a devastating impact on their hollow homes.

Gum tree hollows are critical habitat resources for both greater and yellow-bellied gliders. Clearing and thinning for urban development, agriculture, and timber production have drastically reduced hollows across many landscapes.

Larger gliders are fussy about the den sites they use, preferring hollows in the largest, oldest trees. But hollow formation is a slow process, taking a century or more to form

cavities big enough for large gliders, even in regenerated sites. This shortage of den sites constrains glider populations. While greater and yellow-bellied gliders prefer living trees, clearing has increased their reliance on dead trees – or stags – which last only about 50 years. Many old eucalypts studding farm paddocks are also dying, with no regrowth to take their place. Australia is approaching a bottleneck in hollow availability, which may have dire consequences for threatened glider species.

Habitat loss forces glider populations into shrinking parcels of land, from which they eventually vanish once they lack the population size and genetic diversity to thrive.

Bushfire and survival

The catastrophic bushfires of 2019–2020 were a sign of what we might expect as our climate continues to change. Intense, widespread fires are a severe threat for gliders. Fires not only kill gliders directly but also fell dead hollow-bearing trees, exacerbating the shortage of denning sites. Larger gliders' low reproductive rates and limited ability to disperse across cleared areas may make them unable to recolonise burnt areas, especially where there is no connectivity with old-growth forest. For this reason, fires are known to have caused the localised extinction of some glider populations in New South Wales.

Glidens in burnt landscapes also face starvation if fire has scorched the canopy. For yellow-bellied gliders, blazes place greater importance on sap trees, while greater gliders must travel further to find fresh gum leaves. In denuded landscapes, both species are also vulnerable to predators such as owls, raptors, and pythons.

Low intensity fires, or prescribed burns, tend to have little impact on yellow-bellied gliders because of their larger territories. Post-fire salvage logging, however, can further reduce the already diminished number of tree hollows available and should be avoided.



Nearly one-third of all greater glider habitat in eastern Australia was burnt in the 2019–2020 fires. Some populations may recover with sufficient intervals between fires, but greater glider numbers remain much lower in forests subjected to frequent fire, so the predicted increase in fire frequency will place this species further at risk.

Landowners can help

Habitat loss and fragmentation, an increase in the number and intensity of bushfires, and logging have reduced greater and yellow-bellied glider populations. Conservation actions to address these threats are desperately needed. One of the simplest ways to act is to protect and increase the amount of remnant bushland that remains. Revegetation can grow the amount of habitat suitable for gliders and reconnect isolated populations, reducing the chance of individual populations being wiped out by a single bushfire.

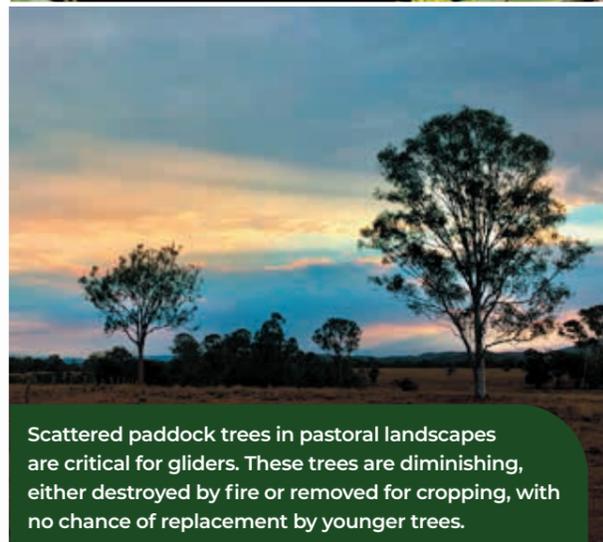
NEST BOXES – THE NEXT BEST THING

A lack of hollows is the main reason large gliders are absent from plantings. Revegetating near existing hollow trees or installing nest boxes and artificial hollows can help. Large gliders prefer hollows in very old tall trees, so nest box placement should replicate that preference. A minimum height of 10 m is recommended. Boxes should also face east or south to avoid overheating. Learn more about nest box creation and installation by scanning the QR code at right.





Greater gliders (left) are rarely seen outside of old-growth vegetation, although yellow-bellied gliders (below) forage in plantings and regrowth.



Scattered paddock trees in pastoral landscapes are critical for gliders. These trees are diminishing, either destroyed by fire or removed for cropping, with no chance of replacement by younger trees.

Large gliders cannot cross cleared gaps that are longer than a single glide.

Protecting what is left

It is far better, and easier, to protect what you have than to recreate it after it has been destroyed. Existing remnant vegetation is a focus for protection because large gliders are more likely to inhabit old-growth forest than regrowth or plantings, as mature vegetation contains more hollows, which take centuries to form in replanted vegetation.

Bigger areas of remnant vegetation support more species in higher densities than smaller patches. Greater and yellow-bellied gliders are rare in pockets of habitat, although these are not without value. Even individual trees create 'stepping stones' across the landscape that enable wildlife safe passage between adjacent vegetated areas.

Managing remnants or plantings to preserve and enhance their condition is crucial to maintaining their value as fauna habitat. This includes fencing to prevent grazing and allow natural regeneration, controlling weeds, and preventing firewood collection. Restoration can also benefit stream stabilisation, control erosion, improve water quality, provide shade for stock, and aid crop pollination.

To plant or not to plant?

Features within and beyond a property's boundaries will dictate the best planting sites and the easiest method to restore habitat. Two ways to increase native vegetation are **revegetation** (planting trees) and **regeneration** (relying on the natural germination of seeds in the soil). Often, a combination of both of these methods is feasible.

Regeneration is cheaper, but it requires a seed source. Areas suitable for regeneration are close to existing vegetation and face limited grazing pressure. Fencing, weed control, and soil scalping can encourage natural regeneration. Supplementary planting in regenerated habitat may also be needed to restore variety and structure if germination results only in canopy trees or in limited botanical species.

At a landscape scale, connectivity is key. If an area has been cleared for decades and has no native trees nearby, replanting may be the only option for restoration. Although more expensive, planting ensures a diversity of species, although avoid planting prolific or fast-growing climbers and vines in the understorey until eucalypts are well established.

Plan for success

Preparation is the key to success when designing a revegetation project. Sites are often covered in pasture grass or weeds like lantana, which must be controlled before planting to allow native plants to establish and grow. Wildlife-friendly herbicides, slashing, brush-cutting, and even manual removal may be required. Laying weed mats or mulch around seedlings can also make ongoing weed control easier.

Grazing should be prevented in planting areas, as even low intensity grazing can hinder natural regeneration. It may be possible to reintroduce grazing after several years, but the most effective plantings occur when livestock is permanently removed. Fencing is the best way to exclude stock. Where native herbivores such as wallabies occur at high densities, tree guards also help protect young plants.

Fencing is a significant cost of revegetation projects. Strategically planting along existing fence lines or in the corner of paddocks can avoid some expense. When it comes time to replace fences, they can be realigned to allow for expanded plantings, increasing the size of patches and providing more habitat for gliders.

GLIDER-FRIENDLY FENCING

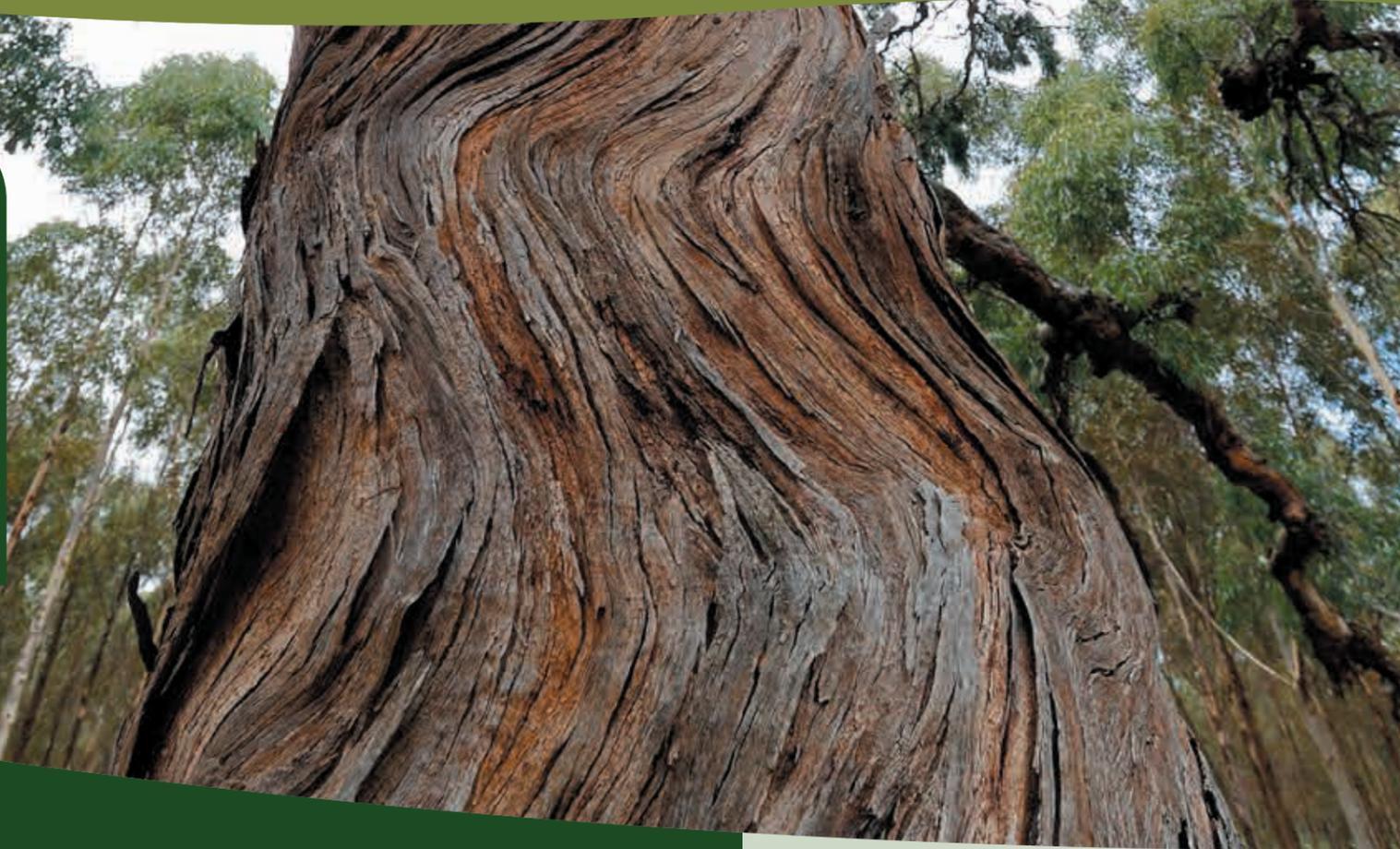
Entanglement in barbed wire is a threat to greater gliders. Use post and rail fences or retrofit wire fences with poly pipe or white tape on the top strand to improve visibility. For more information about wildlife-safe fencing, please visit www.wildlifefriendlyfencing.com

Right: Gliders are especially vulnerable to entanglement on fences along watercourses or ridge lines or between stands of native vegetation. These movement corridors are priorities for wildlife-friendly fencing.



Old gum trees – including forest red gums, river red gums, gum-topped box and yellow box (right) – provide hollows, fissures, and flowering food sources for large gliders. These crucial habitat connectors allow gliders to volplane between trees without going to ground.

Traditional Owners have distinct names for many tree species associated with these gliders. For example, the Kabi Kabi name for gum-topped box is dhin'kar, while in the Wakka Wakka language spoken by the Jarowair people near Toowoomba, the species is known as wur'gon.



Winter-flowering eucalypts, like the lemon-scented gum (top) and river red gum (bottom), are crucial for yellow-bellied gliders because other food resources are limited during the cooler months.

Where to plant

Cleared areas restrict glider movement. By creating corridors, viable pathways through the landscape are restored. Often, this means planting along rivers or creeks, close to roadside vegetation, or adjacent to remnant vegetation on a neighbouring property.

Planting near existing vegetation that contains tree hollows gives gliders the best chance of survival and enhances habitat connectivity. Although large gliders cannot den in young plantings, replanted areas increase food resources near their home trees.

The size of a regenerated area is best determined by a property's features. Remember, limited planting is still better for wildlife than none!

Rivers and roads provide obvious corridors for revegetation. Waterways are also high-productivity areas where plants grow faster, flower more regularly, and may be more drought-resistant. Ridges and hilltops are ideal for planting to attract greater gliders, and are often less suitable for cropping and grazing, thus maximising the production value of farms.

Wide plantings suit large gliders more than narrow plantings, as the edges of revegetated patches are less secure than the interior. Many animals, including gliders, prefer inhabiting denser forest away from the edges, to shelter from wind, predators, and threats. Block-shaped plantings minimise the edge-to-inside ratio, providing more core habitat. Linear or strip plantings still create important access routes for greater and yellow-bellied gliders, but, if possible, should be at least 40 m wide to allow some interior habitat. Having said that, even single rows of trees are valuable additions for gliders.



Small plantings support fewer species but still aid glider conservation if located close to remnant habitat. They can also be expanded later to increase cover.

What to plant

To maximise the benefits for wildlife, try restoring the floral communities that existed prior to clearing or disturbance. Large eucalypts appeal to greater gliders, whereas yellow-bellied gliders will also forage in smaller trees and shrubs. Early planting projects typically restored trees but neglected the shrubby understorey and groundcovers, which attract a diversity of native species.

GO RETRO WITH REVEGETATION

Much of southern Queensland has been extensively cleared, with less than 50% of the original vegetation remaining in some places. A state government website enables landholders to view the remnant and pre-clearing vegetation of their properties to choose species to replant. Simply follow the link below, select regional ecosystems and enter your property address.

www.qld.gov.au/environment/pollution/management/environmental-reports-online

Tree density is a key consideration when designing your plan. Spacing in nearby remnant vegetation is a good indicator of what will work best, but 1.5 m between seedlings is a solid start. As tree densities vary, it is also worthwhile having a mixture of dense and sparse patches within a planting.



Regrowth is not rubbish! Large gliders are known to forage in this vegetation type more often than in young plantings.

The tree species at right are associated with greater and yellow-bellied gliders in southern Queensland.*

You can also seek advice from Wildlife Queensland, Landcare groups, ecologists, landscape architects, and experienced bush regenerators.

* Please check the website on the previous page to see which species best suit your property.

Common Name	Species Name	Notes
Broad-leaved ironbark	<i>Eucalyptus fibrosa</i>	Winter-flowering
Flooded gum	<i>Eucalyptus grandis</i>	For <i>P. australis</i>
Forest red gum	<i>Eucalyptus tereticornis</i>	Winter-flowering
Grey ironbark	<i>Eucalyptus siderophloia</i>	
Gum-topped box	<i>Eucalyptus moluccana</i>	
Narrow-leaved red ironbark	<i>Eucalyptus crebra</i>	Winter-flowering
Narrow-leaved scribbly gum	<i>Eucalyptus racemosa</i>	
Pink bloodwood	<i>Corymbia intermedia</i>	
Red mahogany	<i>Eucalyptus resinifera</i>	In north Qld especially
River red gum	<i>Eucalyptus camaldulensis</i>	
Rough-barked apple	<i>Angophora floribunda</i>	
Spotted gum	<i>Corymbia citriodora variegata</i>	Winter-flowering
White mahogany	<i>Eucalyptus acmenoides</i>	
Yellow box	<i>Eucalyptus melliodora</i>	Winter-flowering

Ten top planting tips

1. Protect remnant vegetation and individual large, old trees, especially those with hollows.
2. Plant adjoining or close to remnant vegetation to allow gliders access to existing hollows and more regular food supplies.
3. Create corridors along waterways or ridge lines and provide stepping stones around scattered trees or on hilltops.
4. Remember, eucalypts and related species are the most important for gliders, but sub-canopy native trees, shrubs, grasses, and wildflowers create homes for numerous species.
5. Regrow eucalypt species that grew at the site prior to clearing (or that exist in nearby remnant vegetation) to provide year-round food resources.
6. Aim for bigger, wider areas to provide more glider habitat, although strategically placed small plots are still important for connectivity.
7. Keep planting areas fenced to avoid damage to native plants through trampling, browsing, and stock grazing.
8. Always use wildlife-friendly fencing to avoid glider entanglement.
9. Avoid fires in revegetated areas and maintain a buffer zone between planted areas and houses, sheds, and infrastructure.
10. Install artificial hollows or nest boxes where natural hollows are scarce or absent. Learn how to make and install nest boxes for larger gliders by scanning the QR code opposite.



Removing weeds such as lantana (above), madeira vine, parkinsonia, parthenium, nightshades and rubber vine will give native gum trees and shrub seedstock a better chance of success.



Once eucalypts are established, adding an understorey of rosellas (top left), banksias (right), wattles (bottom left), bush peas, hardenbergia, hakea, melaleuca and other wildflowers will attract pollinators.

Ethically spotlighting for gliders will help you measure the success of your planting projects.

For spotlighting tips and best-practice guidelines, scan the QR code below.



Watch it grow (and glide!)

One benefit of revegetating is seeing and recording plant growth and the subsequent increase in wildlife over time. Monitoring can be as simple as taking photos from the same aspect (or 'photo point') monthly.

Spotlighting will also reveal whether large gliders or other arboreal marsupials are using revegetated areas. Several citizen science programs monitor nocturnal animals, including Wildlife Queensland's Yellow-bellied Glider Project. Productive partnerships can also be formed between landholders and mammalogists or researchers.

The benefits of restoration

While the current situation is dire, all is not lost for our amazing greater and yellow-bellied gliders. Low numbers of greater gliders persist in patches of habitat in the heart of Brisbane, while yellow-bellied gliders' unique calls haunt the night in outer suburbia. Remember, even a small patch of revegetated habitat or an

individual tree may be the link needed to allow gliders to move from place to place. The solution is simple – plant more trees!

Regardless of the size of your property, revegetation will provide lasting homes for Australia's large glider species. Revegetation can also increase agricultural productivity and profitability, reduce water evaporation in nearby paddocks, stabilise stream banks, prevent erosion, and improve water quality. Trees provide shade for stock and a home for birds and invertebrates that can control pest insects in nearby paddocks. Plantings store carbon and can even increase regional rainfall!

Above all, revegetation empowers us as custodians of the land. We revegetate not because we can, but because we *should*. Only through a synergy and a connection with the natural world will we be able to mature as a species. Along the way, we will ensure a bright future not only for human beings but also for all of the animals and plants that share the planet Earth.

Further Reading

Chenoweth EPLA and Bushland Restoration Services, **South East Queensland Ecological Restoration Framework: Manual**. Prepared on behalf of SEQ Catchments and South East Queensland Local Governments, Brisbane, 2012

Lindenmayer D, et al. **Restoring Farm Woodlands for Wildlife**. CSIRO Publishing, 2018

Lindenmayer D, et al. **Wildlife Conservation in Farm Landscapes**. CSIRO Publishing, 2016

Lindenmayer D & Munro, N. **Planting for Wildlife: A Practical Guide to Restoring Native Woodlands**. CSIRO Publishing, 2012

Peeters, PJ & Butler DW, **Eucalypt Open-Forests: Regrowth Benefits – Management Guide**. State of Queensland (Department of Science, Information Technology, Innovation and the Arts), 2014

Peeters, PJ & Butler DW, **Eucalypt Woodlands: Regrowth Benefits – Management Guide**. State of Queensland (Department of Science, Information Technology, Innovation and the Arts), 2014

Peeters, PJ & Butler DW, **Wet Sclerophyll Forest: Regrowth Benefits – Management Guide**. State of Queensland (Department of Science, Information Technology, Innovation and the Arts), 2014

Join Queensland Glider Network

Wildlife Queensland's Queensland Glider Network (QGN) was established in early 2006 to support glider populations by being a statewide hub for communication, education, data collection, mapping, and information exchange.

QGN hopes to raise awareness of gliders and their habitat requirements in all local government areas to improve community knowledge and interest in these fascinating marsupials.

In conjunction with the Yellow-Bellied Glider Project, launched in August 2020, the QGN is making a real difference to the plight of the state's gliding mammal species.

Visit www.wildlife.org.au/queensland-glider-network for more.



This project was supported by the Australian Government's Bushfire Recovery Program for Wildlife and their Habitat.