



Newsletter for Landcare and Dunecare in Byron Shire



<http://www.brunswickvalleylandcare.org.au/>

July 2019

Koala Care Field Day by Greg Shanahan

Well who knew Koalas had so many threats, and so much support in the community? Friends of the Koala (FoK), that's who. And now, so do twenty five willing and grateful participants in a recent Koala Awareness Field Day. With much thanks, it was conducted at the beautiful Gondwana Sanctuary in Tyagarah, where the local Landcare group and residents have lovingly transformed depleted grazing land into a haven for resident humans and wildlife alike.

Hosted by Brunswick Valley Landcare (BVL), supported by volunteers from Gondwana, and gratefully funded through a NSW Government Environmental Trust grant, the day was perfect, nestled between the days June



showers. Attendees met at the venue, starting the day with a cuppa and a chat with old and new friends. What followed was a highly informative slide show and discussion, presented by Linda and Marley, two of FoK's Koala specialist carers.

After a tasty vegetarian lunch, provided by the Larder of Byron Bay, attendees set off for a walk through the many stages of plantings across Gondwana. The most recent plantings, stage one of a NSW ET Restoration Grant, "Simpsons Creek Koala Corridor-restore, enhance and



connect" are thriving. These plantings extend earlier work from the Koala Connections project, which are now six years old and flourishing. The trees are doing so well in fact, the field day attendees were happily greeted by a healthy Koala. The perfect way to round out a fantastic and informative Koala awareness field day.

Caring for Koalas, Caring for our shared future.

This project has been assisted by the NSW Government through its Environmental Trust.



The Koala nestled in the branches of six year old Eucalypt plantings.





SoilCare Field Day BIOCHAR FOR SOIL HEALTH AND PRODUCTIVITY PLANTS, LIVESTOCK AND SOIL.

[Mara Seeds](#) and [SOFT Agriculture](#)

(Mara Seeds was a sponsor (2016) and exhibitor (2018) at the Australian Biological Farming Conferences)

Join Stuart Larsson and Leo McLean (Mara Seeds Agronomist) with Soilcare at Mara Seeds farm in Mallanganee to learn more about biochar production and use.

Saturday 27th July, 2019,

9.30 AMRegistration/cuppa

10.00 AMTour Mara Seeds

Biochar Plant and Products

12.00 noon ..Lunch

12.45 to 2.00 pm ..Forum Q & A

Workshop Topics:

Stuart Larsson – Biochar products and how to use them.
Forum

Dave Forrest and Stuart– Biochar products for plant
nutrition and soil fertility.

Mara Seeds established SOFT Agriculture (Sustainable Organic Farming Techniques) in 2012 to reflect a vision of “carbon smart” farming. A Range of compost ,organic fertilisers, livestock feeds and additives have been developed using a unique blend of biochar.



Activated Biochar



Spaces limited – Bookings essential - close 23rd July 2019

Tickets: \$50.00 (includes lunch)

To book with credit card or PayPal:

https://www.stickytickets.com.au/88275/biochar_for_soil_health_productivity.aspx

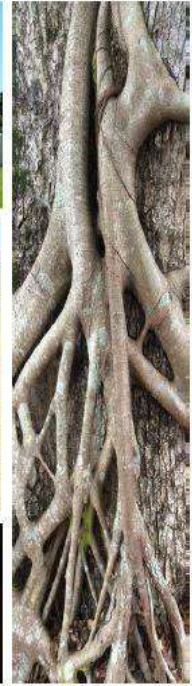
For bank direct deposit e-mail SoilCare for instructions: info@soilcare.org

Questions? Ring Dave Forrest 02 6688 4346 ; 0428245531... or email info@soilcare.org

SoilCare Inc, P.O. Box 525, Alstonville NSW 2477
Email: info@soilcare.org Website: www.soilcare.org

Open Day

Saturday
24 August 2019
10am – 3pm




- ★ Latest research
- ★ Kids activities
- ★ Local food
- ★ Guided tours
- ★ Historical displays
- ★ Dog trials



Wollongbar Primary Industries Institute

Celebrating 125 Years of Growing Our Region

www.dpi.nsw.gov.au/wollongbar 



Department of
Primary Industries

Celebrating 125 Years - Growing our Region

Wollongbar Primary Industries Institute - Masterclass calendar 2019

Date & Time	Masterclass	Contact	Registration
AUG 1 1:30-3:30pm	All Things Intertidal Bus Tour Have you ever seen the amazing solar powered mangrove leaf slug? Travel by bus from Wollongbar to the DPI Research Station at Duck Creek (Pimlico) and squelch your way through 400 year old mangroves.	Patrick Dwyer 0266261397	http://eventbrite.com.au/e/62344171094
AUG 7 8:45am-4:30pm	Timber Plantations Bus Tour Are you interested in growing timber? Join us on a bus trip to meet successful plantation growers and visit a processing plant in the region.	Johanna Kempff 0419478277	http://eventbrite.com.au/e/62416018996
AUG 8 9:30-11:30am	Disaster Preparedness The North Coast region is hit by more floods, fires and storms than any other area of NSW. Learn about natural disasters in the region and receive help to prepare your own simple Disaster Ready Plan.	Jenny Molnes 0266261310	http://eventbrite.com.au/e/62344418935
AUG 8 2-4pm	The Centre for Tropical Horticulture Tour - Alstonville During this masterclass, hear about some of the fascinating research being carried out on the site from leading researchers.	Mark Hickey 0427401474	http://eventbrite.com.au/e/62344518132
AUG 14 2-4pm	Bananas About Bananas What's the deal with 'Bananageddon'? Taste testing included!	Matt Weinert 0266261352	http://eventbrite.com.au/e/62344747819
AUG 15 10-12noon	Agricultural Land Use Planning How do we balance urban growth and primary production? Come along to hear of the work being undertaken to reduce land use conflict risk.	Selina Stillman 0266261215	http://eventbrite.com.au/e/62344812611
AUG 20 10-12noon	Soil and Water Testing How do you get the answers you need from soil and water testing? Learn how to select the correct tests, practice good sampling techniques, interpret the results and make decisions based on science.	Sarah Morison 0447837804	http://eventbrite.com.au/e/62344897266
AUG 20 1:30-3:30pm	Know Your Soils Learn some theory around herbicides, soil amendments and fertiliser formulations, and then put your theory into practice by exploring a soil pit.	Abigail Jenkins 0266261357	http://eventbrite.com.au/e/61477955219
AUG 22 1:30-3:30pm	Integrated Pest Management What's the best way to manage pests? Learn the basics of integrated pest management - a more sustainable and holistic way of managing horticultural pests.	Ruth Huwer 0266261198	http://eventbrite.com.au/e/62415800639

NSW Landcare and Local Land Services Conference 2019

For the first time in its 20 year history, the NSW Landcare and Local Land Services Conference is heading to the far west!

Set aside 22-24 October and make your way to **Broken Hill** where you will join some of the most passionate,

innovative and engaging people from around Australia. [Registration is now open!](http://nswlandcareconference.com.au/)
<http://nswlandcareconference.com.au/>



Are you working to manage and eradicate weeds in Australia? The 20th NSW Weeds Conference is a premier event for NSW weeds officers, researchers, market and industry analysts, government officials and policymakers working towards better weed management across the country. The conference will unite more than 250 weeds management experts in the beautiful beach-side city of Newcastle, Australia. Join us in Newcastle, 26-29 August 2019.

<https://www.nswweedsconf.org.au/>



federal films

JIRGA

M

BRISBANE NEW ZEALAND MELBOURNE SYDNEY TORONTO CINEFESTOZ

★★★★★

"RICH & CONTEMPLATIVE"
...TOLD WITH UTTER GRACE AND PURPOSE"
THE GUARDIAN

Federal Hall **Sat July 13**

Dinner from 6.30pm Film starts 7.30pm
federalfilmsociety.com ph 66849313



This will be a special screening of JIRGA as we very lucky to have the writer-director Benjamin Gilmore with us on the night who will introduce the movie and host a Q&A afterwards.

"Jirga has heavy questions on its mind, about the caveats we put around compassion and what pursuing forgiveness demands of ourselves and other people. How, as a soldier, do you apologise for sins committed during wartime? In what ways should victims and innocent parties respond".

Caterers this month are the newly formed Federal Landcare Group who will be cooking up a delicious feast of: Middle Eastern Baked Chicken with Chickpeas & Brown Rice, Winter Vegetable Tagine served with Chilli Corn Bread and Tabbouleh. A wonderful selection of homemade cakes & desserts. Tea & Coffee

Doors open @ 6.30pm for dinner, film starts @7.30pm (There will be heaters in the hall)

Short and long-term memberships are available at the door.

BYO and don't forget to bring a cushion! Phone 6684 9313 or email federalfilmsociety@gmail.com for further details. See our website or Facebook for upcoming films:

www.federalfilmsociety.com www.facebook.com/federalfilmsociety

National Carbon Farming Conference and Expo 2019

Held on 5-8th August in Albury, NSW the conference will present cutting edge knowledge and entry to carbon farming for trade.

They are offering drought assistance rates for all Australian Farmers to attend the conference (Primary producers only i.e. those who obtain more than 50% of their income from Primary Production).

<https://carbonfarmingconference.com.au/>



The July issue of Village Eco News is now available.

<http://brunswickvalleylandcare.org.au/wp-content/uploads/2016/06/Village-Eco-News-Issue-33-July-2019.pdf>

Notification of public consultation on the Coastal floodplain eucalypt forest of eastern Australia ecological community

The national Threatened Species Scientific Committee invites your comments and submissions on a proposed listing for a nationally threatened ecological community under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). The 'Coastal floodplain eucalypt forest of eastern Australia' ecological community was originally nominated as the 'River-flat eucalypt forest on coastal floodplains of New South Wales'. Its name has been revised to reflect its full national extent. This forest occurs on coastal floodplains throughout the temperate and subtropical regions of eastern Australia, from Gladstone in Queensland to east of Sale in Victoria.



The draft scientific assessment, included within a draft Conservation Advice, recommends that the ecological community may be eligible for listing as **Endangered**, based on evidence that it has declined in extent by 75-80%; it has a very restricted geographic distribution, based on small patch sizes, coupled with many demonstrable threats throughout the range; and the extent and integrity of the remaining forests are further impacted by weed invasion, changes to hydrology and coastal development.

The draft Conservation Advice is available for public comment from: <http://www.environment.gov.au/biodiversity/threatened/nominations/comment/coastal-floodplain-eucalypt-forest-eastern-australia>.

The closing date for comment is **Wednesday 21 August 2019**.

Questions are available online, that may help frame your comments. You do not need to limit your feedback to the Committee to these questions – the Committee welcomes, and will consider, any constructive comments received about the ecological community and its eligibility for listing as nationally threatened.

We are contacting a range of people and organisations about the opportunity to provide comment on this proposed listing. The Committee would also like your help to spread news about the proposed listing and its invitation to comment through your networks; for instance through newsletters, bulletins and meetings, or please forward this email as you see appropriate to relevant organisations and contacts.

New Threatened Species listing

Scrub Turpentine

Scientific name: *Rhodamnia rubescens*

Conservation status in NSW: **Critically Endangered**

Commonwealth status: **Not listed** 

Gazetted date: 01 Feb 2019, Profile last updated: 27 Mar 2019



Description

Shrub or small tree to 25 m high with reddish/brown, fissured bark. Young stems densely covered in fine hairs. Leaves 5–10 cm long, 2–5 cm wide, upper surface green and sparsely hairy, lower surface paler and sparsely to densely hairy. Leaves strongly 3-veined from base with moderately dense, translucent oil dots. Petiole 4–9 mm long. Inflorescences 1–3 per axil, usually 3-flowered with petals 4–6 mm diam. and white. Fruit globose, 5–8 mm diam., red turning black.

Distribution

Occurs in coastal districts north from Batemans Bay in New South Wales, approximately 280 km south of Sydney, to areas inland of Bundaberg in Queensland. Populations of *R. rubescens* typically occur in coastal regions and occasionally extend inland onto escarpments up to 600 m a.s.l. in areas with rainfall of 1,000-1,600 mm.

Habitat and ecology

Found in littoral, warm temperate and subtropical rainforest and wet sclerophyll forest usually on volcanic and sedimentary soils.

This species is characterised as highly to extremely susceptible to infection by Myrtle Rust. Myrtle Rust affects all plant parts.

<https://www.environment.nsw.gov.au/threatenedspeciesapp/profile.aspx?id=20341>

STORIES to inspire and give you hope

Climate change could be paused by planting trees, researchers say, as they map out available land by ABC Science [Nick Kilvert](#)

Australia is one of six countries that together hold around 50 per cent of the world's tree planting potential.

Planting trees to reduce the amount of carbon dioxide in the atmosphere seems like a no-brainer in the fight against climate change. But until recently it's not been clear how much land we'd need to make a tangible difference to warming, and whether we'd need to reclaim farm and residential land to do it.



Now new research [published today in Science](#) estimates there's enough suitable unused land on the globe for reforestation to store around 205 gigatonnes of carbon. That's enough to buy us about 20 years in the fight against climate change, according to researcher Jean-Francois Bastin from the Institute of Integrative Biology in Zurich.

"This would definitely help to keep us at that maximum of 1.5 degrees by 2050," Dr Bastin said.

The researchers started by modelling the amount of tree cover the earth could sustain under current environmental conditions, if there were no humans on the planet. They considered local climate factors like rainfall and temperature in their modelling. Then they worked backwards, subtracting existing tree cover, urban environments and agricultural land.

They were left with 0.9 billion hectares of degraded land, which could be returned to canopy cover ranging from open savannah to dense forest.

The land they identified had been affected by things like logging, slash-and-burn fire regimes, intensive ongoing burning and clearing for grazing.

Other technological methods for combatting climate change, such as injecting sulphate aerosols into the stratosphere, have been proposed but most carry significant risks or are yet to be proven at scale.

The beauty of reforestation, according to Dr Bastin, is that it's win-win.

"When you think about tree restoration, it's not only about fighting climate change it's also about maintaining ecosystems," he said.

"The forests of the world protect 80 per cent of the biodiversity that exists on land."

Reforestation needs to happen before 'tipping point'

Deforestation in Australia is undermining efforts to rejuvenate habitat.

The researchers also modelled the effect that climate change will have on how much of the earth's surface will be able to support trees in future. Their findings suggest that reforestation needs to happen soon if it is to be effective.

Under current forecasts, they project that global tree canopy cover will shrink by up to 223 million hectares by 2050. The impacts will be most significant at the tropics, according to Dr Bastin.



"The tropics will be under a lot more climatic stress. There will be more severe droughts," he said.

"Forests are a little bit resilient. But at some point we are afraid that it might shift, hit a tipping point and we are going to lose a lot."

An argument often espoused by climate-change sceptics is that more carbon in the atmosphere will equal more plant growth.

But David Ellsworth, an expert in the response of forests to climate change from the University of Western Sydney, said that wasn't the case.

Instead, tree growth is limited by a range of factors, including water availability and how nutrient-rich the soil is.

"What we know is that phosphorous is very limiting [in places like Australia]," Professor Ellsworth said.

He has conducted experiments where plants are exposed to the levels of CO₂ predicted in the future, and observed no significant changes in growth rate.

While today's research points to exciting possibilities, he warned that the amount of CO₂ that could be absorbed should be treated with some caution. He said that by not factoring in soil nutrients or the full range of carbon densities of different vegetation types, there was room for error.

Most potential reforestation land in Australia and five other countries

More than half of the land available for what the researchers call "tree restoration potential" was identified in just six countries. Australia ranked fourth on the list, behind Russia, the United States and Canada, and was followed by Brazil and China.

Twenty million trees are expected to be planted in Australia by 2020 under a [federal government program](#).

But critics say any reforestation efforts in Australia are being undermined by land clearing.

Deforestation in Australia in recent years has spiked, [drawing comparisons with tree-clearing hotspots like the Amazon rainforest in Brazil](#).

In 2017 around 1,000 football fields were being cleared each day in Queensland, and more than a million hectares were cleared in that state between 2012 and 2016. The Nature Conservation Council (NCC) claims around one football field of bushland was cleared in New South Wales every 10 minutes, in 2017-18.

"We are in an extinction and climate emergency. We must stop destroying wildlife habitat if we are going to stop more species disappearing," NCC CEO Kate Smolski said in a statement last week.

A million species worldwide are now under threat of extinction, [according to a UN-backed](#) report published in May this year.

In Australia, 121 species are listed as critically endangered by the IUCN, with 41 species having gone extinct. A further 239 are endangered.

Numerous critically endangered and endangered species, including Leadbeater's possum, swift parrots and bettong could benefit from forest restoration in Australia.

Armpits of the ocean' can store carbon 40 times faster

But forests aren't the only ecosystems that can help fight climate change.

While trees are able to draw down carbon dioxide from the atmosphere and store it for the duration of their lives, [blue carbon ecosystems](#) can do it up to 40 times faster, and can potentially lock away carbon for 1,000 years or more. Blue carbon is the term referring to stored carbon in coastal ecosystems like mangroves, seagrass and salt marshes.



But according to Peter Macreadie from the Blue Carbon Lab at Deakin University, these systems which he calls the "armpits of the ocean" have an image problem.

"I'm working on a program in the Maldives where they're ripping out seagrass because people don't like the look of the dark patches in the water." Dr Macreadie said.

Getting public support to conserve and restore habitats that might be muddy and smelly and home to mosquitoes and sand flies is a difficult ask. But in terms of a carbon sequestration investment, blue carbon is better value for money than tree planting, according to Dr Macreadie.

"If you're a carbon offset provider you're going to think, 'I can store the same amount of carbon in a fortieth of the land area'," he said.

Like planting trees, restoring coastal ecosystems has other benefits as well like boosting fish stocks and buffering coastlines from storm surges and sea-level rise.

While we focus on decarbonising our economies, restoring natural ecosystems may buy us precious time, according to Dr Bastin.

"We cannot be too picky. We need to use every good idea we can develop to fight climate change."

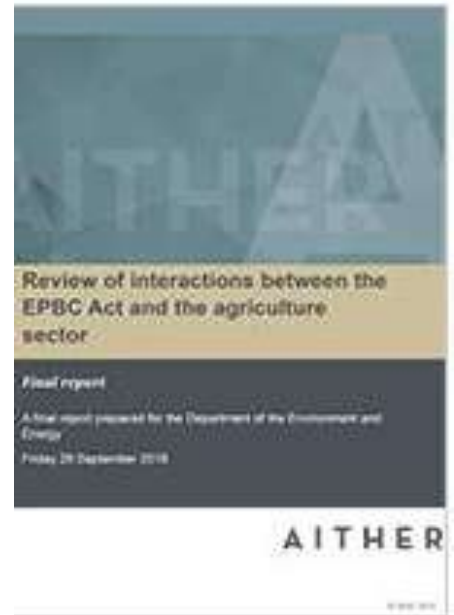
<https://www.abc.net.au/news/science/2019-07-05/climate-change-tree-planting-carbon-dioxide/>

REGENERATIVE AGRICULTURE

Review of interactions between the EPBC Act and the agriculture sector published

The independent review of interactions between the *Environment Protection and Biodiversity Conservation Act 1999* (the EPBC Act) and the agriculture sector, undertaken by Dr Wendy Craik, is now complete. The review was set up to examine the interaction between the EPBC Act and the agriculture and food production sector and find practical ways to support this sector while maintaining environmental standards.

The Australian Government has already begun to implement Dr Craik's recommendations, and will work with the sector to further improve interactions between farmers and the EPBC Act. The report will also be considered as part of the upcoming independent statutory review of the EPBC Act, due to commence by October 2019.



<https://www.environment.gov.au/epbc/information-for/farmers/agriculture-review>

We bought a farm to have more family time. We're risking it all to join a natural farming revolution

BY ABC RURAL VIRGINIA TAPSCOTT

About a year ago, the purchase of two dairy cows led to the discovery of a revolution in our paddocks.

My partner and I, two young farmers, learned we could rehabilitate the natural environment by the way we farm.

But the stakes were high — making the switch from conventional to conservation farming could send us broke.

So we set out to meet a network of regenerative farmers who are working with nature to eliminate the use of chemicals, revegetate their land, reduce carbon emissions and encourage the return of native plant and animal species.



The lure of a new approach

Our property, on the outskirts of Narrabri in north-west New South Wales, is about 130 acres of mostly farmed-up country.

There are very few trees but we have beautiful black soil and a stunning view of the mountain range to our east.

We bought it because we want to spend our days outside and together as a family.

We got the dairy cows from Ralph and Jo Waters, a hobby farming couple in Bingara, about an hour away. They are completely self-sufficient, off the grid and chemical free, and have been farming in a more natural way. They have transformed an old clay tennis court into a food forest by planting successive crops of faba beans. They use their chooks to naturally fertilise their garden beds and sow native grass seeds into pasture to improve diversity.

As we were loading the cows onto the trailer, Ralph told us they'd been able to stop worming their cows by feeding them a mix of minerals. We'd never heard anything like it. Not worming seemed irresponsible, and we thought they were a bit whacky. But they also handed us a book on natural farming, and it got us thinking: could we implement these techniques on our own farm?

Considering we're in the grip of one of the worst droughts on record, it may not seem like a such a bright idea to go out on a limb, but we figured it had to start raining again at some point. And we found the idea of revegetating the landscape, eliminating chemical use and working with nature to produce healthy food really appealing. We knew we had to try.

You can **Listen to the podcast** or read the full story here <https://www.abc.net.au/news/rural/rural-news/https://mobile.abc.net.au/news/2019-06-22/regenerative-natural-farming-revolution-in-our-paddocks/11219812?pfmredir=sm>

Could carbon sequestration be the future of agriculture? by synbiobeta

ACROSS the globe, scientists, innovators, and entrepreneurs are racing to develop strategies to mitigate our climate crisis. One of the most tantalizing solutions is carbon capture and sequestration—removing carbon dioxide from the atmosphere and locking it away so it doesn't return. There are many ideas about how to store or upcycle the extracted carbon. One such recent innovation could help bring new life to depleted soil.

Sequestering carbon in biochar

Some companies such as [Climeworks](#) and [Carbon Engineering](#) are pumping CO₂ deep underground or turning it into products for the food and beverage industry or for low-carbon fuels. One startup, [Carbo Culture](#), is going a step further, pioneering a product to tackle both agricultural air pollution and soil degradation.

The Finnish company, which now operates in California, is skipping carbon capture and going straight to sequestration. California generates and openly burns millions of tons of bio-waste each year. This practice spews large amounts of [toxic carbon smoke](#) and other harmful particulate matter into the air. Carbo Culture aims to prevent these pollutants from ever being released. After a €550,000 [round of seed funding](#) (\$620,000), the company is building a thermochemical reactor to transform food production waste into biochar.

Biochar is a stable, carbon-rich solid. Its porous structure makes it [highly effective](#) in retaining water and water-soluble nutrients. When mixed with earth, it becomes ideal living quarters for soil microorganisms. Not only does biochar promote microorganism activity, it has also been shown to reduce nutrient leaching and soil acidity. And because it retains water and nutrients, it can also reduce irrigation and fertilizer demands.

Biochar isn't just good for soil-health. It can significantly reduce greenhouse gas emissions emitted from soil, particularly methane, which is [30 times more heat-trapping](#) than CO₂. And because it is so stable, biochar can stay in the soil for hundreds to thousands of years, sequestering carbon and maintaining long-term soil fertility. Multiple [studies](#) and [analyses](#) have examined biochar's promise for climate change mitigation. Experts estimate the [biochar market](#) will be worth \$2.6 billion by 2023.

Read the full story here: <https://synbiobeta.com/could-carbon-sequestration-be-the-future-of-agriculture/>

Camera Trap photos from Springbrook by [Land for Wildlife South East Queensland](#)

A camera trap was deployed at a Land for Wildlife property in Springbrook on the Gold Coast for less than three months and captured a fantastic diversity of fauna totalling 26 species. Check out a small selection of the more than 5,000 images taken. It is a good demonstration of the benefit to wildlife of a well-placed water source. Adding a few branches provides perches to drink and bathe from, and an escape option for those that get a little too wet! Visit to see all the photos :



https://m.facebook.com/story.php?story_fbid=1041546122697948&id=333231910196043

Wildlife expert Nick Mooney says eagle windfarm deaths higher than reported by [ABC Radio Hobart](#) [Georgie Burgess](#)

Photo: Wildlife biologist Nick Mooney says it is not known how many eagles are killed by windfarms. (Supplied: Birdlife Tasmania)

A wildlife expert has called for independent monitoring and studies into eagle deaths caused by windfarms, warning the problem is only going to get worse as the industry expands in Tasmania.

Key points:

- Twelve eagle deaths have been reported by Tasmania's largest wind farm since its construction in 2013
- Under the law, windfarms must pay offsets when such endangered birds are killed



A wildlife expert has criticised the system, saying the actual death rate could be higher than reported and that the offsets are 'blood money' that are ineffective

Under Commonwealth legislation, windfarm companies agree to "offsets" when an endangered bird is killed. Offsets include the companies paying compensation, funding research or the protection of nest sites.

To read the full story visit: <https://www.abc.net.au/news/2019-07-04/wildlife-expert-nick-mooney-calls-for-windfarm-eagle-death-study/>

To sign up for ABC Rural Newsletter visit <https://www.abc.net.au/news/rural/rural-news/>

FUNDING

Do you have a great project and need funds to make it happen?

You can find more information on available grants on the Brunswick Valley Landcare website including a calendar of all grants expected to be available during 2019. There are also some handy tips on how to be successful with grant applications. Below is a summary of grants which are currently accepting applications and ones that are anticipated to open within the next month.

<http://brunswickvalleylandcare.org.au/funding/>

Environmental Education Program Grants

The NSW Environmental Trust is inviting Expressions of Interest (EOIs) to Tier 2 of its Environmental Education Program. The closing time and date for Tier 2 Education EOIs is **3pm Monday 5 August 2019**.



The Environmental Education Program is a contestable grants program aiming to support educational projects that develop, broaden and transform the community's knowledge, skills, and intrinsic motivation to undertake sustainable behaviour and encourage participation in the protection of the environment.

The objectives of the program are to:

- Facilitate change in the values and behaviour of individuals and groups to improve specific or broad environmental problems
- Develop and promote education projects that improve the environment and address sustainability challenges.

Tier 2 - will fund grants of from \$60,001 up to \$250,000 for projects running for 3-5 years.

This grant stream follows a new approach intended to enable emerging contemporary thinking in the design of solutions to difficult environmental problems.

Projects are expected to:

- address the systemic causes of problems
- include social research or co-design in project development to ensure solutions are carefully targeted to the practical realities of people's lives
- move beyond the formula of 'workshops and educational materials' towards engaging, experiential, personally transformative or agency-building activities
- take risks and trial innovative ideas
- conduct small scale field tests, prototyping, or piloting of ideas, and then amend project plans based on learnings, prior to full implementation
- leave a sustained legacy in environments/systems that assist long-term shifts in human/organisational behaviours
- measure and report on the impact on the environmental problem they are tackling, as well as changes to organisational/human systems and environments.

An important outcome will be transformations in thinking and assumptions by the project teams themselves, so that they understand and appreciate the process their target audience is expected to go through.

Grantees will work with Trust Administration and leading environmental education and behaviour change experts for up to 12 months investigating and planning their projects in line with these expectations, before implementing projects over the following two to four years.

Applicants are strongly encouraged to read the [Tier 2 program guide](#) and refer to **Appendix 1 - The theoretical framework behind the new Trust Grants Program**, before applying.

Note: Applicants can submit two (2) EOIs, but only one (1) may be funded, if successful.

Program information

Go to the Trust's website for more information about the Environmental Education Program and to access application materials: <https://www.environment.nsw.gov.au/funding-and-support/nsw-environmental-trust/grants-available/environmental-education>.

Questions?

Please contact the Trust on (02) 8837 6093 or email info@environmentaltrust.nsw.gov.au

2019 Community litter grants

Round 5 of Community Litter Grants is planned to open from June to August 2019. During this period, you will be able to send in applications for grant funding.



Please note: You cannot apply for grant funding until after you submit an Expression of Interest and your group's eligibility has been confirmed by the EPA.

Program streams: Grant funding will be available in two streams:

Stream 1: Local single-community group projects (\$4,000 to \$10,000). This stream is for any community group to conduct a litter prevention project at a single littered location. It is intended for groups who are taking their first steps in the litter prevention journey. Expert help will be available to support groups to plan and carry out effective litter prevention projects.

Stream 2: Multi-site and/or multi-organisation projects (\$20,000 to \$70,000). This stream will be for larger organisations that are able to work across multiple sites and involve multiple groups. It is intended for groups that have the capacity to engage in litter prevention on a larger scale and over a longer period of time.

<https://www.epa.nsw.gov.au/working-together/grants/litter-program/community-litter-grants>

Tackling Tough Times Together

The Tackling Tough Times Together grant program helps communities access the resources they need to support one another through the ongoing effects of the drought. Applications are accepted on an ongoing basis and assessed quarterly. **Round 14 closes by 5pm AEST, 23 July 2019. EOIs for the \$150K tier must be received by 5pm AEST, 3 July 2019.**

https://www.frrr.org.au/grants/tackling_tough_times_together.php



ANZ Seeds Of Renewal Grant

ANZ Seeds of Renewal grant of up to \$15,000 to help fund grassroots initiatives aimed at creating the foundations of strong, vibrant and sustainable communities. The ANZ Seeds of Renewal program is focused upon supporting projects that align to one of ANZ's three focus areas.

- Environmental sustainability
- Financial wellbeing
- Housing affordability

Applications close Tuesday 6 August 2019

More information can be found <https://www.frrr.org.au/grants/ANZ-seeds-of-renewal>



Qantas Regional Grants



Qantas Regional Grants Program will provide financial, flight and marketing support to community groups and organisations to help further their causes and set them up for success.

Grants will be determined by a panel based on eligibility criteria and funding will be distributed each year, awarded to at least one recipient, or several, within each state and territory.

Applications close Friday 30 August 2019

More information can be found <https://www.qantas.com/au/en/about-us/our-company/in-the-community/qantas-regional-grants.html>

Australia Post Community Grant



Australia Post Community Grant Program aims to support projects and services that address locally identified needs to strengthen social connections. They are offering grants of up to \$10,000 for eligible projects that provide positive benefits for your community.

We're looking for projects that:

- Help people connect with each other through group activities (e.g. volunteering programs, civic engagement and environmental activities)
- Reduce barriers to participation in community life (e.g. transport, ability to pay, or access to community spaces), or
- Develop skills and leadership capability to strengthen community networks

Applications close Sunday 4 August 2019

More information can be found <https://auspost.com.au/about-us/corporate-responsibility/our-community/local-support/community-grants-program/2019-community-grants>

Macpac Fund For Good

The Macpac Fund for Good is to help those committed to creating long-term change for the good of our people and planet.

We don't give large grants to just a few causes, we want to be able to make even a small difference to as many organisations as we reasonably can. So instead we award modest contributions of between \$2,000-10,000 to those organisations who align with our ideals.



The groups we support fall into one of three areas:

- Adventure-Based Social Development
- Environmental Projects
- Ethical Manufacturing

<https://www.macpac.com.au/fund-for-good.html>

Group Vault Grant

The aim of the Young Farmer Business Program Group's Vault Grant is to provide a

“training for groups” grant to formal and informal groups (minimum of 3 members) who support young farmers and fishers, locally and regionally in NSW. The funds must be used for a project to develop the business and leadership skills of it's members.



https://www.raa.nsw.gov.au/_data/assets/pdf_file/0003/1134687/Groups-Vault-Grant-Guidelines.pdf

Weed of the Month

This month's weed of the month is Jumpseed *Persicaria virginiana*.

Also called jumpseed, Virginia knotweed or woodland knotweed this weed is rapidly spreading through Wilsons Creek. A North American species of smartweed within the buckwheat family. It is unusual as a shade-tolerant member of a mostly sun-loving genus. Jumpseed is a perennial, named for its seeds which can "[jump](#)" several feet when a ripe seedpod is disturbed.



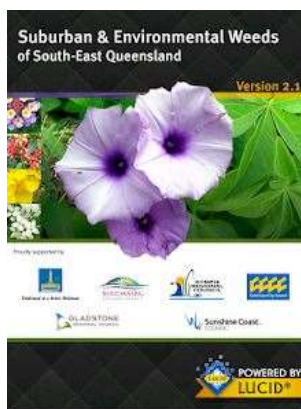
Jumpseed has alternate leaves, with fine-hairy stipular sheaths with bristle-fringed edges which often turn brownish. Flowers, widely spaced along slender stalks, are white to greenish-white, rarely pink-tinged, and fruiting flowers have 2 downward-pointing hook-tipped styles. *Persicaria virginiana* is easily distinguished from most other *Persicaria* species by its much larger, more oval-shaped leaves, although a few species also have large leaves. It sometimes has a [chevron](#)-shaped marking on the leaves; often a single plant will have this marking on some leaves but not others. Cultivars and naturalized populations from cultivation show much greater variation than wild-type plants, sometimes having variegation or have more involved red patterning, and sometimes having red or pink flowers.

Two App's to have on your phone to help with Weed ID are:



NSW WeedWise has a free smartphone app through the app stores, as well as a [web version](#). The smartphone app provides key information to help users reduce the impact of over 300 weeds in New South Wales. Users, ranging from home gardeners and residents to farmers, land managers and weeds professionals, can search or browse weed names (common or scientific); recognise a weed by its physical description and image gallery; and find out about its impacts, where it occurs, how it spreads and its preferred habitat. Control options are described for each weed and the herbicides registered for control by the Australian Pesticide and Veterinary Medicines Authority are listed, including application rates and techniques, and any minor-use permits that must be complied with. General, state or regional biosecurity duties under the *Biosecurity Act 2015* are displayed for each weed.

<https://www.dpi.nsw.gov.au/biosecurity/weeds/nsw-weedwise-app>



Weeds of South-East Queensland and Northern NSW is an invaluable resource to advisors, researchers, students, landcare and bushcare volunteers, weed control officers and anyone interested in learning more about the weeds of south-eastern Queensland and north-eastern New South Wales.

[Android through play store](#)

[Apple through iTunes](#)

WORKING BEES - why not get out and get involved in one of our local groups?

For all Landcare Working Bees please wear protective clothing - long pants, long-sleeved shirt, closed-in shoes, hat, gloves and bring water, sunscreen, and insect repellent. **Please always contact the groups co-ordinators before attending a working bee as plans do change!**

Bangalow Land and Rivercare, Bangalow

WHEN: every Saturday 8:30am
WHERE: find out from Liz Gander
CONTACT: Liz Gander bangalowlandcare@gmail.com 66871309

Green and Clean Awareness Team, Byron Bay

WHEN: 3rd Sunday of the month 9:00am
WHERE: Meet Main Beach, Byron Bay
CONTACT: Veda Turner vedaturner@gmail.com 0427 857 991

Heritage Park Landcare, Mullumbimby

WHEN: alternate Saturdays 9:00am – 11:00 am
WHERE: Heritage Park, Mullumbimby
CONTACT: Diana Hughes bromspot@gmail.com

Jinangong Landcare, Ocean Shores

WHEN: 1st Sunday of the month
WHERE: The Tunnel Road, Ocean Shores
CONTACT: Ian Parer ianparer@hotmail.com

Mullum Town Landcare, Mullumbimby

WHEN: last Sunday of the month
WHERE: find out from Rita de Heer
CONTACT: Rita de Heer 02 6684 1495 ritadeheer7@gmail.com

South New Brighton Dunecare

WHEN: 1st Friday of the month 1:30pm - 4:30pm
WHERE: Meet at southern end of the Esplanade at the Strand beach access point.
CONTACT: Robyn Bolden robyn.bolden@optusnet.com.au 6680 1970

Suffolk Park Dunecare

WHEN: 1st Saturday of the month
CONTACT: Helen Brown hellyh@bigpond.com 6685 4964

Tyagarah Landcare

WHEN: Each Thursday 9:00am – 11:00am
WHERE: 23 Prestons Lane, Tyagarah
CONTACT: Bela Allen bela_allen@yahoo.com 6684 7113

Yallakool Reserve Landcare, Ocean Shores

WHEN: each Wednesday and Friday at 8.30 – 11.00 am
WHERE: corner of Yallakool Drive and Warrambool Road, Ocean Shores
CONTACT: David Kemp dnkemp77@gmail.com 0427 650 861

Can't find a group near you? We have many other groups who meet on an ad hoc basis (contact us for more details) or if there isn't an existing group in your neighbourhood or you are interested in looking after a particular area, BVL can help you to form a locality group under the BVL umbrella.

LINKS

- Arakwal <http://arakwal.com.au/>
 - Border Rangers Alliance <http://www.greasternranges.org.au/border-ranges/overview/overview>
 - Bangalow River and Landcare <http://www.bangalowlandcare.org.au/>
 - Big Scrub Landcare <https://www.bigscrubrainforest.org.au/>
 - Brunswick Valley Landcare <http://www.brunswickvalleylandcare.org.au/>
 - Byron Bird Buddies <http://www.byronbirdbuddies.com.au/>
 - Byron Community College <http://www.byroncollege.org.au/>
 - Byron Shire Council <http://www.byron.nsw.gov.au/>
 - EnviTE www.envite.org.au
 - Environmental Trust <http://www.environment.nsw.gov.au/grants/envtrust.htm>
 - Friends of the Koala www.friendsofthekoala.org
 - Local Land Services www.northcoast.ils.nsw.gov.au
 - North Coast Local Land Services <http://northcoast.ils.nsw.gov.au/>
 - Border Ranges Richmond Valley Landcare www.brrvln.org.au
 - Mullumbimby Community Gardens <http://mullumcommunitygarden.wordpress.com/>
 - North Coast Nature <http://www.northcoastnature.org.au/>
 - Richmond Landcare Inc. <http://www.richmondlandcare.org/>
 - Rous County Council (formerly Far North Coast Weeds) <http://rous.nsw.gov.au/>
 - Soilcare <http://www.soilcare.org>
 - Tweed Landcare Inc. <http://www.tweedlandcare.org.au/>
 - Wilson's Creek Huonbrook Landcare <http://www.wilsonscreeklandcare.mullum.com.au/>
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For information about Landcare or other natural resource issues in Byron shire please contact

Landcare Support Officer

Alison Ratcliffe 6626 7028 0421 244 640 (Monday, Thursday and Friday)

email: alison.ratcliffe@byron.nsw.gov.au



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