

GREETINGS LANDCARERS



Welcome to spring everyone.

The weather is absolutely stunning.

Bees are busy buzzing on all the flowers.

Birds are busy nesting.

Pythons are on the move as are their venomous relatives.

You may be lucky enough to see two male snakes wrestling for a mate.

Remember snakes don't have ears, they can't hear your screams or "Oohs" and "Ahhs". Instead, they feel vibrations. If you would like to observe a snake stand nice and still giving them plenty of space.

If you are afraid, stand nice and still and let them slide on to go about their business or back away slowly.



Honey bee on a *Xanthorrhoea johnsonii* spike. Credit R Merdith

Wildlife Safe Havens Wild bnb Big Tree Hollow Audit

The Wildlife Safe Havens Big Tree & Hollow Audit - shot yesterday on a private property adjacent to the Mt Jerusalem National Park as part of the Large Forest Owl Conservation Project. This project is funded through Wildlife Safe Havens by Santos Organics.

This massive tree had three Glossy Black-Cockatoo sized hollows, other big hollows suitable for Large Forest Owls and a host of hollows for parrots, gliders and a range of species.

The videos were taken with Gregor Nass' helmet-mounted GoPro, with commentary by Gregor, The hollow audit also uses borescopes to scan the hollows.

The Big Tree & Hollow Audit is documenting the availability of suitable hollows for Large Forest Owls, including the threatened Powerful, Sooty, Masked and Barking Owls and also Glossy Black-Cockatoos.

This information, together with other target species survey data, informs what can be done to support these species long-term.

Gregor analyses the shapes, sizes and entrances of the hollows he is finding and replicates these criteria into the Hunk-of-Trunk nest boxes. The height, positioning and aspect of the hollows also informs how and where the Hunks-of-Trunks are installed.

The data also provides a valuable insight into the role of nest boxes, and other hollow-habitat solutions, across a range of landscapes.

Locky Cooper conducted a spotlighting and audio call survey in the evening and discovered Boobooks, a sugar glider, a male Koala and a Sooty Owl (call). It was 12 degrees and a bit windy and a quiet night for wildlife. You can view the videos through the below links.

<https://vimeo.com/599157380>

<https://vimeo.com/599165359>



Photo credit Locky Cooper



Glossy Black hunk-o-trunk habitat and the invading wood ducks

By Dave Brook

While Glossy Black-Cockatoos have been spotted near the massive custom-made hollows installed around Mullumbimby they haven't yet looked to nest, but a host of other species have been checking-them-out.

Feathertail Gliders, Sugar Gliders and Short-eared Brushtail Possums are some of the arboreal marsupials that are recorded at night on the WIFI enabled infra-red, motion-sensor wildlife cameras supplied to this project by Traps.com.au

And during the day, Yellow-Tailed Black-Cockatoos, White-throated Treecreepers, Eastern Rosellas and White-headed Pigeons are also prevalent.

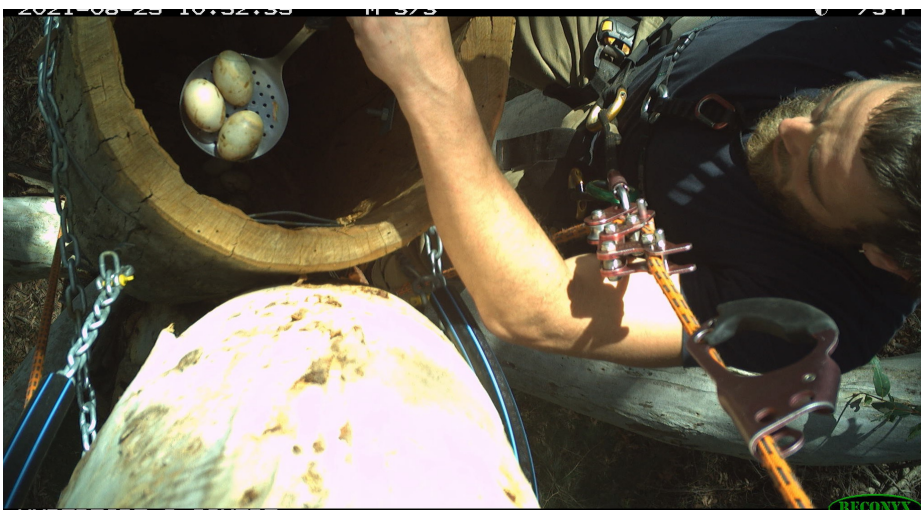
The Wildlife Safe Havens Glossy Black-Cockatoo Conservation Project, supported by Santos Organics, has installed the Hunk-of-Trunk hollows which are hand-crafted by Wildbnb's Gregor Nass.

One of the five hollows has been very active with over 3000 wildlife camera images to-date. Many of these images depict a pair of **Wood Ducks** circling the hollow for three weeks and then **laying 10 eggs**. They abandoned the nest four weeks later and a competition sprung into action about who was going to get the eggs.

Kookaburras and Currawongs kept a constant watch on the hollow, with the eggs one metre down the tube and difficult to get.

Eventually it was Gregor Nass who scored the eggs, cleaning-out the hollow this week to ensure that other species were not deterred from nesting there.

Follow [@BrunswickValleyLandcare](https://www.instagram.com/BrunswickValleyLandcare) and [@Wildbnb_Wildlife_Habitat](https://www.instagram.com/Wildbnb_Wildlife_Habitat) on Instagram to keep updated on this project.



Turning plastic waste into amazing 3D printed nest boxes

Check out Wildbnb's latest production line of local plastic waste, repurposed, 3D printed, then rendered, nest boxes.

Dave Brook from Wildbnb and Dave Rawlins spent the day in the 3-D printing factory refining these amazing nest boxes getting them ready to install - this initiative can be a real game-changer in nest boxes.

"They are made from problem waste - the nest boxes will be literally cleaning Byron beaches of plastic - and printing a superior product (current rapid research and testing puts them at a 50 + year lifespan) that have amazing insulation like a tree hollow."

Now we need to see if the wildlife like 'em. "



From this bizarre mould

To these amazing rendered 3D nest boxes!



Cockatoos and rainbow lorikeets battle for nest space as the best old trees disappear

Gregory Moore
Doctor of Botany, The University of Melbourne

How hollows form

Many hollows begin at the stubs of branches that have been shed either as part of the tree's growth cycle or after storm damage. The wood at the centre of the branch often lacks protective defences and so begins to decay while the healthy tree continues to grow over and around the hollow.

Other hollows develop after damage to the trunk or on a large branch, following lightning damage or insect attack. Parrots will often peck at the hollow to expand it or stop it growing over completely. Just a bit of regular home maintenance.

Which trees are best for hollows?

In watching the local battles for parrot nesting sites, some tree species are the scenes of many a conflict.

Sugar gums, *Eucalyptus cladocalyx*, were widely planted as wind breaks in southern Australia and they were often lopped to encourage a bushier habit that provided greater shade.

Poor pruning often leads to hollows and cavities, which are now proving ideal for nesting — but it also resulted in poor tree structure.



[Cockatoos and rainbow lorikeets battle for nest space as the best old trees disappear](http://theconversation.com)
(theconversation.com)





"Interested in Birds?" Read on about Byron Bird Buddies"

Byron Shire's pre-eminent bird conservation and educational group, BBB have just released their "Bird Routes of the Lismore Region"

Birding Sites around the Lismore Region

Bird Routes of the Lismore Region includes the district around Nimbin, Dunoon, Clunes, Richmond Hill, Bentley (rural north-west), Wyrallah (rural south) & suburban Lismore/Goonellabah.

THE LOCAL GOVERNMENT AREA LIES WITHIN THE LANDS OF THE BUNDJALUNG PEOPLE WHO ARE THE ACKNOWLEDGED TRADITIONAL CUSTODIANS OF THIS LAND.

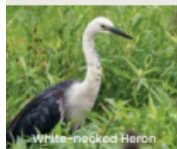
The Shire covers an area of 1,290 square km and, like other areas of the Northern Rivers, is an integral part of the mixed subtropical & temperate ecosystem known as the Macleay-McPherson Overlap: a region of exceptionally high biodiversity made possible by its hilly landscape, rich soils and climate.

The region once contained the largest area of lowland sub-tropical rainforest in Australia – the Big Scrub – of which less than 1% now remains uncleared. It is on the doorstep of spectacular and diverse mountain scenery including the World Heritage listed Gondwana Rainforest National Parks. The lower slopes retain some of the lowland sub-tropical rainforest remnants as well as other habitats such as freshwater wetlands, tall open eucalypt forests, patches of original grassland ("grasses") and farmland.

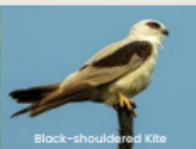
These rich habitats satisfy the food, shelter and breeding needs for a great variety of birds, both within the city itself and throughout the surrounding countryside. Some species are rare, being found nowhere else in the world, such as Albert's Lyrebird.

This brochure has been produced for visitors and residents to the Lismore region and outlines 19 key birdwatching locations in the area. A list of 241 bird species is also provided with a small selection of birds sighted within each location. Many of these birds can be viewed at multiple sites throughout the region if habitat and climate are suitable. Remember, some birds listed are subject to seasonal variations and migratory patterns.

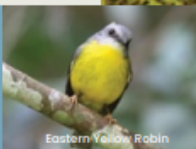
While birdwatching, remember to dress appropriately and always protect yourself against sunburn and insect bites. A pair of binoculars and a good field guide or digital app of Australian birds will undoubtedly enhance your birdwatching experience.



White-necked Heron



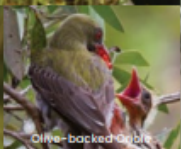
Black-shouldered Kite



Eastern Yellow Robin



Double-barred Finch



Olive-backed Oriole

Produced by Byron Bird Buddies (2021) and members of BirdLife Northern NSW and supported by Lismore Tourism.

SPONSORS

BirdLife Northern NSW & Lismore City Council.

SPECIAL THANKS TO PHOTOGRAPHERS

Ross Hollands, Ross Sergeant, Deborah Pearse, Rodney Falconer, Anne Jones, Bruce McNaughton, Margaret Hodgson.

We encourage you to submit your bird observations to BirdLife Australia's national database birdata.birdlife.org.au In Birdata, all birdwatching locations in this brochure have been defined as Shared Sites & under Program/details submit your observations as a General Birddata Survey.

For more local information about birding within the Lismore area, or to report a new bird sighting, please email: byronbirdbuddy@gmail.com or visit our Facebook page www.facebook.com/byronbirdbuddies or contact BirdLife Northern Rivers.

To download a PDF of the brochure:

www.byronbirdbuddies.com.au or www.birdlife.org.au



byronbirdbuddies.com.au



birdlife.org.au



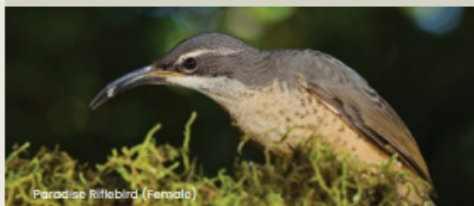
birdata.birdlife.org.au



lismore.nsw.gov.au

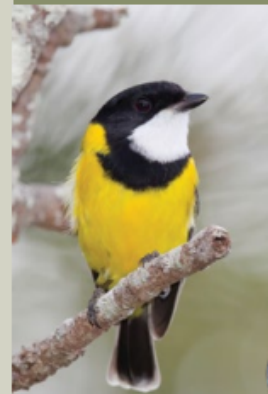
For more information on the Lismore area contact Lismore Environment Centre on (02) 6621 6977 or lisenvironmentcentre@gmail.com

To protect wildlife please leave your dog at home. Fines apply in National Parks.



Paradise Riflebird (Female)

BIRD ROUTES of the Lismore Region



Golden Whistler



Topknot Pigeon

A Birdwatchers Guide from the lowlands of the 'Big Scrub' to World Heritage Rainforests



Tawny Frogmouth

PRODUCED BY BYRON BIRD BUDDIES

Our History by Jan Olley

Originally in the 1970's, a small group was started by a Byron Bay local Jack Willows to protect the diversity of the Belongil Estuary as a shorebird feeding and breeding area, he also monitored and tagged birds in the estuary. In the 80's and 90 some monitoring continued especially by Bob Oehlman.

By 2007, conservation measures have been put in place by the Belongil Bird Buddies to promote the estuary mouth as a 'safe' and protected area of the estuary.

What we do

Byron Bird Buddies (BBB) is a volunteer community group, involved with avifauna monitoring, conservation and education in the Northern Rivers of NSW, Australia, since 2004. The group operates under the auspices of Brunswick Valley Landcare as an avian locality group. BBB conservation and monitoring activities are generally focused in Byron Shire with some education activities extending to surrounding shires of the Northern Rivers and the Clarence Valley.

Our program is usually organised six months in advance and updates are posted on our website, FB page and direct email.

byronbirdbuddy@gmail.com

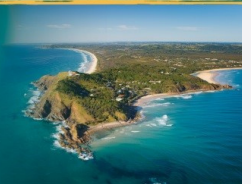
www.facebook.com/byronbirdbuddies

<http://www.byronbirdbuddies.com.au>



Media release

Byron Shire Council



Making the most of every opportunity to provide new homes for wildlife

Sadly, every year in the Byron Shire a number of large and mature trees die of old age, are damaged by lightning strike, or succumb to insects such as termites.

When this happens, many trees are cut down but Byron Shire Council staff only do this as a last resort.

"We must, of course, fell or heavily prune trees to reduce the danger of falling limbs as the trees deteriorate, but we always try to make the most of a bad situation," Andy Erskine, Open Spaces Technical Officer, said.

"We inspect the sick and damaged trees in our parks, or next to roads and look for every opportunity to keep what we can for the sake of our wildlife," Mr Erskine said.

"If we can we retain the structure of the tree and then get creative, adding features that can act as habitat.

"Our arborist contractors are very handy with chainsaws and they create niches, nooks and hollows that suit a whole range of wildlife including birds, possums and bats.

"We recently did this on a large eucalypt at Broken Head that had been killed by lightning and hopefully it will make a perfect new home for local creatures," Mr Erskine said.

"I am pleased to report that we have created new homes for wildlife in damaged trees at Broken Head and Mullumbimby and the next project will be at Bangalow.

"What Council is doing is complementing the terrific work of Brunswick Valley Landcare with its Wildlife Safe Havens project that focuses on creating habitat for native animals and birds.

"Making nesting boxes or new homes for native animals is also a great project for children during the lock-downs and disruptions caused by COVID-19," Mr Erskine said.

Information how to build wildlife/habitat boxes is on the Brunswick Valley Landcare website.

"STOP PRESS! Greater Gliders found in Byron Shire!

After no recordings for 40 years, these fascinating, large, gliding possums have just been recorded by the wildbnb team".





The Guidelines contain 15 modules which follow the native seed supply chain from collection, through processing to propagation and planting. To better support the whole of the seed supply chain, this update includes additional information on working with Indigenous Australians, approvals, record keeping, and tips for seed purchasers.

This revision was part of the Healthy Seeds Project funded by the NSW Environmental Trust and managed by the Australian Network for Plant Conservation (ANPC) Inc. The Florabank Consortium includes ANPC, Australian National Botanic Gardens, CSIRO and Greening Australia.

The updated Guidelines are available to download for free from the Florabank website: www.florabank.org.au/guidelines free, monthly e-newsletter, and join as a member to enjoy a range of benefits.



CLIMATE

Planting Trees Encourages Cloud Formation—and Efficiently Cools the Planet By David Kindy

New study examines cooling effect of clouds produced by deciduous forests under pressures of climate change

The creation of clouds over forested areas shows that reforestation would likely be more effective at cooling Earth's atmosphere than previously thought.

It seems like a no-brainer, but if we plant forests, it could cool the climate—more than previously thought.

For the full article click on the link below.



Planting Trees Encourages Cloud Formation—and Efficiently Cools the Planet

New study examines cooling effect of clouds produced by deciduous forests under pressures of climate change

[Planting Trees Encourages Cloud Formation—and Efficiently Cools the Planet | Smart News | Smithsonian Magazine](#)



'Building Bio-Bridges for a shifting Climate'

Check out this amazing and inspiring project from Richmond Landcare.

Facebook video link:

<https://www.facebook.com/RisingStrongProject/posts/711738720227006>

YouTube video link:

<https://www.youtube.com/watch?v=bOyvp5UISnl>



Eating for the environment: Can changing your diet help the planet?

By Ruth Dawkins

Research is looking into the potential for individuals to follow diets that are both sustainable and healthy, as well as exploring what challenges we face in doing that.

Sustainable diets are a hot topic at the moment.

We are told that individual dietary change is an easy and essential step as we transition to a more sustainable way of living.

For the full article, click on the link.



<https://ecos.csiro.au/eating-for-the-environment-can-changing-your-diet-help-the-planet/?>

A roadmap for carbon capture and utilisation in Australia

Developed with government and industry, the CO₂ Utilisation Roadmap explores the risks and opportunities associated with the scale-up of carbon capture and utilisation (CCU) in Australia.

There are a range of industries that are difficult to decarbonise with renewable technologies alone. These industries often rely on fossil fuels as a building block for thousands of everyday carbon-based products such as plastics, aviation fuel and chemicals. Others have carbon dioxide (CO₂) emissions inherent in their processes, such as when making steel and cement.

To reduce emissions from these industries we need to consider every method and tool available, one such tool is carbon capture and utilisation (CCU).

<https://www.csiro.au/en/work-with-us/services/consultancy-strategic-advice-services/CSIRO-futures/Futures-reports/CO2-Utilisation-Roadmap>



Australia's National
Science Agency

CO₂ Utilisation Roadmap



Northern NSW Biodiverse Carbon Project

North Coast Local Land Services is offering a new service to connect landowners to carbon farming opportunities and markets.

Under the Northern NSW Biodiverse Carbon Project North Coast Local Land Services want to: increase landowner participation in farm-based carbon sequestration options, assist landowners with entering the carbon market. **20 ha minimum is required but 10 ha will be considered.**

If you are an interested landowner, please contact John Nagle, North Coast Local Land Services Biodiverse Carbon Project Officer, on 1300 795 299 or

Email admin.northcoast@lls.nsw.gov.au or Complete an online customer enquiry form with the subject line Biodiverse Carbon Project <https://www.lls.nsw.gov.au/regions/north-coast/contact-us/online-customer-inquiry-form> Want More information?

Greening Australia's Biodiverse Carbon Conservation website:

<https://www.greeningaustralia.org.au/new-carbon-farming-opportunities-will-help-us-put-new-life-back-into-the-environment/>

Australian Government's Clean Energy Regulator website:

<http://www.cleanenergyregulator.gov.au/ERF/About-the-Emissions-reduction-fund>



Local Land
Services



Biodiverse



Carbon

For more information call
1300 795 299 to contact your
Local Land Service office

John Nagle North Coast
Local Land Services Biodiverse
Carbon Project Officer.

BACK FROM THE BRINK

Rare native buttonquail found in Queensland for the first time — but was it here all along

ABC News/Brendan Mounter

Ecologists have discovered a species of bird previously unknown to Queensland in what is the state's first confirmed record of the chestnut-backed buttonquail, *Turnix castanotus*.

Shyness and camouflage hid the buttonquail for 100 years

Rare buttonquail confirmed in far northwest Queensland solves century-old suspicion. Click on link for the full story.

<https://www.abc.net.au/news/2021-09-02/rare-bird-chestnut-backed-buttonquail-found-queensland/100425172>



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Northern hairy-nosed wombats are back from the brink after dropping to just 35 in the 1980s

ABC Rural / By Melanie Groves

The northern hairy-nosed wombat population has grown from the brink of extinction to more than 300 in the past 50 years.

The species is found in just two places in Queensland, with plans to expand.

Dr Alan Horsup has spent 30 years working with the critically endangered animal.

<https://www.abc.net.au/news/rural/2021-09-07/saving-hairy-nose-wombat-brink-of-extinction-epping-forest/100436308>



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Conservationists celebrate arrival of eastern quoll joeys at Barrington Tops breeding facility

ABC Mid North Coast / By Emma Siossian and Fiona Poole

Conservationists are celebrating the birth of almost 30 eastern quoll joeys at a breeding facility in New South Wales.

Eastern quolls are an endangered species and became extinct on mainland Australia about 60 years ago.

The native marsupials were introduced at the Aussie Ark breeding facility at the Barrington Tops on the Mid North Coast in 2017.



<https://www.abc.net.au/news/2021-09-09/baby-eastern-quolls-born-in-breeding-program-aussie-ark/100443764>

SEMINARS AND WORKSHOPS

HOLISTIC MANAGEMENT in THE NSW NORTHERN RIVERS

starting NOVEMBER 2021
with BRIAN WEHLBURG from
INSIDE OUTSIDE MANAGEMENT

An 8-day course in Regenerative Agriculture

Grow grass for profit
Work with nature
Make decisions which benefit the whole
Use livestock as a positive tool

MULLUMBIMBY

The full Holistic Management Course

eight two-day sessions

Session 1 November 3-4

Session 2 December 8-9

Session 3 January 12-13

Session 4 February 9-10

Enquiries: kerry@insideoutsidemgt.com.au
www.insideoutsidemgt.com.au



Holistic Management Course

Mullumbimby, NSW

November 2020– February 2021

The teachings of Allan Savory

www.insideoutsidemgt.com.au

Session 1 (2021 November 3-4) Introduction, history of Holistic Management and its success. The power of paradigms – how we think and change. Ecosystem function – how nature functions holistically, incorporating livestock as a tool for making change to our environment, diagnosing the root cause of problems, what is causing biodiversity loss. Improving productivity through sunlight capture. Increasing the effectiveness of our rainfall.

Session 2 (2021 December 8-9): Review ecosystem function and the tools, Holistic diagnosis of environmental problems. The change process – how people change. Personal profiling - what motivates you. Conventional decision making, Holistic Context formation and goal setting, discovering the testing matrix, testing decisions using a testing matrix, testing decisions – personal examples. Improving our time management.

Session 3 (2022 January 12-13): Review and photos, mastering the basics for Holistic Grazing Planning, feed budgets and plant monitoring, paddock walk and practical feed budgeting, complete case study for growing and non-growing season grazing plans, complete personal grazing plan, electronic spreadsheets for grazing planning. Improved communication.

Session 4 (2022 February 9-10): Introduction to Holistic financial planning, small business financial plan example, communication exercises, review non-growing grazing plan. Biological monitoring theory, paddock walk – set up a bio-monitoring site. Introduction to Holistic land planning and key line. Review, evaluation.

Telephone, email and teleconference support will be provided through the duration of the course to assist with implementation of the learning.

The 8-day course is conducted as four 2-day sessions, 4-5 weeks apart.

All study materials (text book, hand book, all charts and worksheets, Grazing Planning and Financial Planning software) included, as well as morning teas and lunches.

Want to learn more? Check out these You Tube videos

[Holistic Management at Work](#)

[Allan Savory TED Talk – How to green the world's deserts and reverse climate change](#)

[Holistic Management - a grazing method that changed our lives](#)

REGENERATIVE AGRICULTURE

Soil Our National Capital Workshop Ross Arnett's "Malua Farm", a macadamia farm at Lindendale, has featured on ABC Landline.

Malua Farm was the one of three sites for BVL's very successful "Soil Our National Capital" workshops held in June 2021, each attended by about 70 farmers and speakers.

Ross is a leading exponent of Regenerative Agricultural practices, including wide-spaced orchard rows, full soil cover, inter-row cropping, insectories for insect pest management, innovative tree pruning, and boundary decoy cropping.

The Landline feature can be found here:

<https://www.abc.net.au/landline/hidden-world:-macadamia-growers-controlling-pests/13469610>



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Australian farmers and scientists trial new methods to improve soil moisture

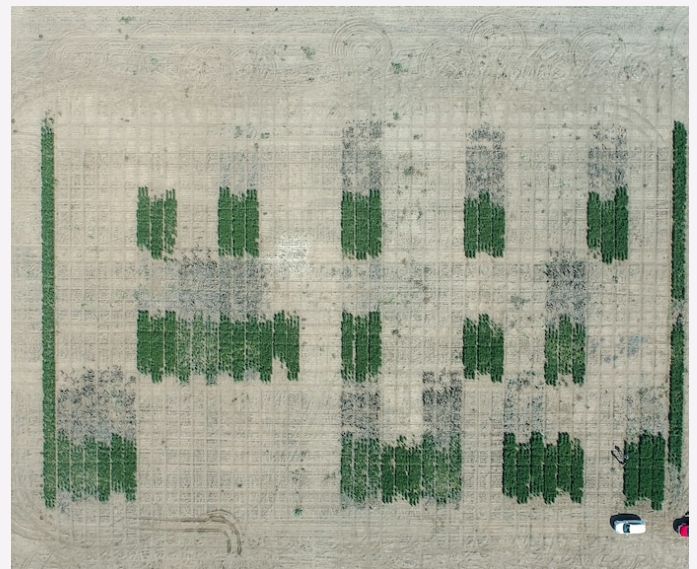
Landline / By Kate Doyle and Nathan Morris

Cover cropping is one way to improve soil moisture.

According to Zvi Hochman, chief research scientist at CSIRO Agriculture and Food, genetic work is underway.

Another approach is to encourage earlier vigour, bringing about quick ground cover and preventing moisture loss.

Another is to develop species with long coleoptiles, which are the protective sheaths surrounding the shoots as they make their way from the seed to the surface.



<https://www.abc.net.au/news/2021-09-05/farmers-scientists-trial-new-methods-to-improve-soil-moisture/100407572>

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The Davis, Whiting, Van Donk and McGlade families from southwestern Victoria form The Green Pastures Movement. We're multi-generation farming families with a firm commitment to creating healthy products, healthy farming practices and a healthy business that we can pass on to the next generation.

In an industry known for pricing challenges and ownership by huge multinationals, we are aiming to revolutionise the way the Australian Dairy Industry, if not the world, produces milk. Over the past five years we've taken risks and challenged convention, all for a desire to provide Australian families with a healthier milk made on healthier farms.

<https://www.greenpasturesmovement.com.au/story/>



Gabrielle Chan tells Australians why they should 'Give a F-k About Farming' Hannah Sparks

Gabrielle argues that if we want to keep finding the food we love on supermarket shelves and dressing in our favourite clothes, we need to take heed in the future of farming, which means paying attention to the challenges the industry faces.

The great thing about both of Gabrielle's books is that she writes them from the perspective of someone who went from being completely disconnected from what was going on in regional and rural Australia to someone who now owns a sturdy pair of gumboots and can see sheep from her bedroom window.



<https://aboutregional.com.au/gabrielle-chan-tells-australians-why-they-should-give-a-f-k-about-farming/>

FUNDING

Restoration and Rehabilitation grants - now open for applications

The NSW Environmental Trust is now inviting applications to the 2021/22 round of its Restoration and Rehabilitation Grants Program.

A total of \$4 million is available to the following organisations for projects that assist in the ongoing sustainable management and stewardship of significant environmental assets and services in NSW for grants of between \$50,000 and \$170,000.

Applications close 3pm Monday 11 October 2021.

Application materials

The Program Guidelines, Developing Your Application guide and a range of other resources are available on the Trust's Restoration and Rehabilitation grant program webpage.

Questions?

Contact the Trust Administration on (02) 8837 6093 or email.

To find out about other grants programs delivered by the Environmental Trust, please visit the Trust's website.

NSW Environmental Trust
Locked Bag 5022, Parramatta NSW 2124
(4 Parramatta Square, Parramatta NSW 2150)
Phone 02 8837 6093
info@environmentaltrust.nsw.gov.au

To find out about other grants programs delivered by the Environmental Trust, please visit the Trust's website.

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LAND FOR WILDLIFE

Native bees make a healthy honey no others make, and now we know how

ABC Rural By Anthea Moodie and Kallee Buchanan

- Scientists discovered the rare healthy sugar unique to native stingless bee honey in 2020
- The bees make it in their gut after consuming nectar high in sucrose
- Researchers are now hoping to identify crops with high sucrose nectar to increase production

Why not give native bee hives a go on your property?

A nest or box of Australian Stingless Bees makes a wonderful addition to your backyard - whether you are a gardener, a small-crop grower or simply a lover of Australian wildlife.

- They will help to pollinate your treasured plants.
- They may supply you with a taste of their unique honey.
- They have interesting social behaviour like the commercial honey bees, but they are stingless and easier to handle.
- Best of all, they are "true blue" Australian bees.



Photo credit Sue Haining



Keeping Australian Stingless Bees (aussiebee.com.au)

<https://www.abc.net.au/news/rural/2021-08-28/native-bees-healthy-honey/100409558>

WEED OF THE MONTH

Broad-leaf pepper tree *Schinus terebinthifolius*

Broad-leaf pepper tree is a fast growing tree.

In agricultural environments broad-leaf pepper tree:

- shades out pasture
- makes livestock movement and mustering difficult
- blocks access to water
- hosts horticultural diseases that affect mangoes and citrus trees.

In natural environments broad-leaf pepper tree:

- spreads quickly in disturbed bushland
- outcompetes native plants including grasses, ground covers and shrubs
- dominates the understorey reducing food and shelter for native animals.

Human health

Being near the tree when its flowering or touching the sap can cause:

- severe itching
- lesions
- rashes
- a red and swollen face
- oozing sores
- welts
- breathing difficulties.

The leaves and fruit contain other unidentified toxins that can cause gastroenteritis in humans.



Control

Successful weed control requires follow up after the initial efforts. This means looking for and killing regrowth or new seedlings. Using a combination of control methods is usually more successful.

To manage broad-leaf pepper tree:

- control plants before they fruit in winter to stop seed set
- control seedlings before they are three years old and start producing fruit.

Physical removal

Hand pull or dig out isolated seedlings. Cut down large trees and remove or drill stump with 1:1 glyphosate.

Wear personnel protective clothing and equipment and avoid contact with the sap.

Chemical control

Cut stump method

Cut trunks or stems and apply herbicide 1:1 glyphosate to the stump within 15 seconds of cutting.

Stem injection 1:1 glyphosate

Drill, saw or cut into the sapwood. Fill the cuts or holes with herbicide within 15 seconds.

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 group coordinators before attending a working bee as plans do change!

Bangalow Land and Rivercare, Bangalow

WHEN: every Saturday 8:30am

WHERE: find out from

CONTACT: Noelene Plummer bangalowlandcare@gmail.com 0431200638 66874470

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 Jude Alcorn

CONTACT: Jude Alcorn 0411 298 356 judealcorn@yahoo.com.au

Ocean Shores Landcare, Ocean Shores

WHEN: each Friday at 8.30 – 11.00 am (8.00am DST)

WHERE: corner of Yallakool Drive and Warrambool Road, Ocean Shores

CONTACT: David Kemp dnkemp77@gmail.com 0427 650 861

Tallowood Ridge Locality Landcare, Tallowood Ridge Mullumbimby

WHEN: Second Saturday of the month from 3pm (winter), 4pm (summer).

WHERE: Gathering Tree Pocket Park, Cockatoo Cres Tallowood Ridge Estate

CONTACT: Joanne McMurtry jmcmurtry@bigpond.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

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 Koalas <http://www.bangalowkoalas.com.au/>
- 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
- Federal Landcare Inc federalandcare@gmail.com
- Local Land Services www.northcoast.lls.nsw.gov.au
- North Coast Local Land Services <http://northcoast.lls.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/>

**For information about Landcare or other natural resource issues in Byron shire please contact
Landcare Support Officer, Alison Ratcliffe 6626 7028
(Mon, Tues, Wed)**

aratcliffe@byron.nsw.gov.au

Project Officer, Rochelle Merdith 6626 7201 rmerdith@byron.nsw.gov.au

www.brunswickvalleylandcare.org.au

