

The Lakes Hub is an initiative of the Milang and District Community Association Inc. funded by the Australian Government and the South Australian Government's Murray Futures program.

Number 197
4 July 2014

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In hot water?

The bulletin is packed this week, with updates on water trading, water allocations, the Environmental Watering Plan and we wait with bated breath on which way the Peruvian cold water anchovy swims.

Will it or won't it happen? El Niño is looming it's head again, [the ABC said](#), and patterns fall in line with "a 70% chance of going into an El Niño". This is not an indication of certain drought, but El Niño weather patterns are often associated with below average rainfall and above average daytime temperatures over Southern parts of Australia.

Last week's news apparently ... as the Cold water anchovy are now reported to be [swimming in a northerly direction off the coast of Peru](#). This apparently rules out an *extraordinary* El Niño event.

Interesting times; we will maintain anchovy watch with great interest.

In other news, [UNESCO recently listed 26 new sites](#) to the World Heritage List including the 1000th site, the Okavango Delta in Botswana.

I'm thinking there's a Lakes and Coorong sized hole in that list though :-)

Have a great week!

Stuart.



The Weekly Link

[Murray Darling environmental water to give refuge to birds and wildlife during El Niño - ABC Rural, 4th July 2014](#)



[Environmental Water - MDBA](#) - Background info on Environmental Water and links to the Environmental Watering Plan.

“From Smelly Swamp to Wonderful Wetland”

I have been having a bit a clean out at the Lakes Hub in Milang the last few weeks and stumbled across a box of memorabilia, old photos and media releases from as far back as the 1990's. I found this media release of Karyn Bradford "Milang Promotion Officer" in 2001. Karyn presented a paper at the 2nd National Wetlands Conference-Repairing our Wetlands. Karyns article highlights the community shift in perception about the Milang wetlands.

Reading the article highlighted to me just how far the lakes communities have altered their perception as a community in looking after the precious resources of wetlands as well as raising awareness to others communities about the importance of wetlands ; not only for the health of our habitat and river systems but for the health of our community; psychologically, emotionally, spiritually and physically. The Internationally significant Ramsar Wetlands of the Lower Lakes, and Coorong have different meanings for different people, the Lakes Hub would like to find out what these are. In the next month or so we will be sending out a simple survey to hear your thoughts on what is important to you, community perceptions of Ramsar management and how the Lakes Hub can support some of these in the future. We will also be sending out our annual Bulletin survey. Please take the time to give your feedback and have your say, you may even will a trip for two on the Cruise the Coorong...

Regards,

Megan Collins

Lakes Hub

Coordinator

Vol. 136 No. 7190 The Southern Argus, Thursday, November 22nd, 2001

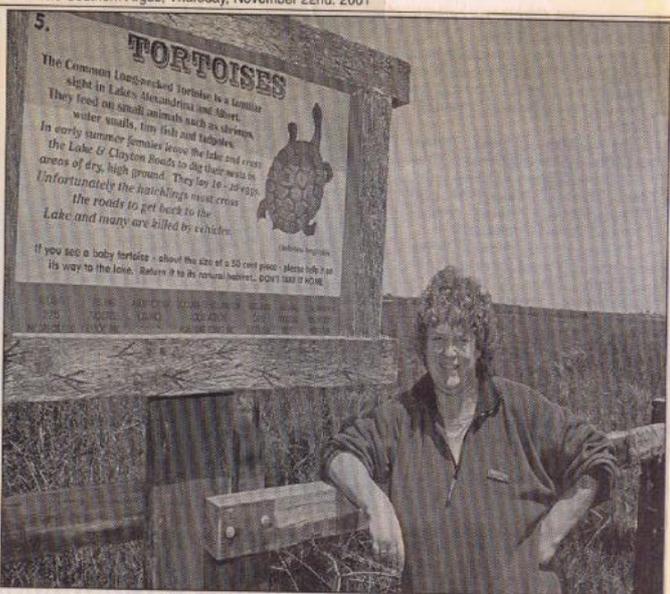
Milang Wetland Champion presents papers

Karyn Bradford a long term resident of Milang and promotion officer of Milang 2005 Inc presented a paper at the 2nd National Wetlands Conference - Repairing our Wetlands: Learning by Doing held at Couran Cove Resort, South Stradbroke Island, Qld from 14 th to 16th November.

Bill Hardy Chairman of the Board of Directors of Wetland Care Australia, host of the conference, said that the event is an indicator of the growing community priority for repairing our wetlands.

We continue to emphasise the theme of working together to make a difference on the ground and to follow our mission of harnessing the resources required to fix our wetlands, whether technical, financial, social or physical.

Karyn's presentation:



Karyn Bradford with the sign for the common long-necked tortoise at the Milang Wetlands.

For many years the small S.A. community at Milang has perceived their sulphure swamp as a degraded and smelly eyesore right in the middle of the main visitor area, between the holiday sharks, caravan park, shopping centre and Lake Alexandrina foreshore. Many plans had been put forward over the last 20 years and most were doomed due to lack of funding and in the latter years inability project encompasses fencing of the wetland, interpretive signage boardwalks, bird hides, planting of native vegetation, education and public awareness raising.

How did we bring about change in our community?

- Developed a draft plan for the protection of wildlife and habitat
- Kept the local community informed through our community news and with press
- tory birds wetlands etc available in the township.
- Take every opportunity to become involved with important environmental days
- Keep in close contact with our local school.
- Established a migratory bird register which will assist with future assessment of the success of our endeavour. Where do we go from here?
- We hope to restore

MEDIA RELEASE

1 July 2014



New rules shed light on water trading

New online information giving Murray–Darling Basin water traders better access to details about different water products has gone live today to coincide with the start of the new Basin Plan water trade rules.

From today, everyone who trades water will need to be aware of new requirements, whether they are farmers or state governments.

Murray–Darling Basin Authority spokeswoman Heather Cotching said the Basin Plan trade rules are about improving the efficiency of our water market and giving people more opportunities to trade.

“In short, they’ll reduce restrictions on trade, improve transparency of information and improve market confidence,” Ms Cotching said.

“From today, basin water traders can visit a central access point on the MDBA website to find out about the basin’s most commonly traded water products and link directly to all basin states’ water trading sites.

“If you trade in water, you must now include a sale price when you complete your state trading application forms—many people are already doing this, so for them it’s simply business as usual.

“Secondly, you must not trade if you’re aware of a water announcement that hasn’t been made publicly available. This is in line with standard insider trading rules and protects market integrity.”

Ms Cotching said most of the changes applied to the basin states and irrigation infrastructure operators.

“Basin states can now only restrict trade in certain circumstances, such as where there are physical constraints or where transmission losses would be too great.

“They’re also now required to set out the reasons why they refuse a trade, and to make all their water announcements publicly available.”

Ms Cotching said irrigation infrastructure operators must now ensure their members have up-to-date records of their irrigation and delivery rights.

River Murray water allocation planning feedback

The South Australian Murray-Darling Basin Natural Resources Management (SAMDB NRM) Board is inviting feedback on proposed changes to the River Murray Water Allocation Plan (WAP).

The WAP aims to ensure water resources are managed sustainably for all water users and for the environment.

Changes will incorporate lessons from the drought and provide greater clarity on how water can be taken and used from the River Murray.

Draft papers on the proposed changes have been prepared in collaboration with the River Murray Advisory Committee and Department of Environment, Water and Natural Resources.

The draft policy papers are now available on the Natural Resources, SAMDB website. Formal consultation will begin shortly, but feedback on options is welcome at any time before the close of formal consultation.

The amended WAP will be a stepping stone towards Basin Plan compliance, which is required by 2019.

For further information about the WAP amendment process and the policies being considered, please visit our website or contact Peta Bretig, Natural Resources SAMDB on (08) 8463 6877.

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Natural Resources
SA Murray-Darling Basin



Government
of South Australia

Nurragi Reserve Walking Trail

Looking for something to do on a Sunday morning?

A group of walkers will be walking parts of the Nurragi walking trail the first Sunday of each month. Meeting at the rotunda opposite the Milang shops at 9 am. Bring comfortable walking shoes, water, hat and a raincoat.

ALL WELCOME





Butterfly Conservation SA Inc.

Invitation to our

BUTTERFLY FORUM

“ATTRACTING BUTTERFLIES INTO YOUR LIFE”

Learning from each other

at Waite Campus Day Care Centre
Paratoo Rd. URRBRAE (off Waite Rd.) Gate 6.

Sunday 27th July 2014 2pm - 4.30pm

Program

- Marvel at the mysteries of Ants and Butterflies
- Hear how the butterfly is used in the school curriculum
- Learn from a native plant grower 'What to plant for bio-diversity in the home and community.
- Tag a Butterfly! How and Why
- Nectar and larval plants - for sale
- 'Butterfly Site' Gardens will be 'on view' (photographs, plus)
- Guided tour of the Waite Campus Day Care butterfly garden
- Afternoon tea
- plus Books, posters, activities for children.

Painted Lady Butterfly
Vanessa kershawii
Photo: E.Steele-Scott

RSVP by July 17 to:
Jill Davy 24 Hart Ave. Unley SA 5061
ph. 8 373 6772 jilldavy@adam.com.au
or
Lorraine Woodcock
alwoodcock@bigpond.com



Muntries –Bush Foods Plant

(source www.cse.csiro.au/research/nativefoods/documents/NFI_SA.pdf)

History of use

As well as an ancient culture of use by aboriginal owners, South Australia has a modern history of native food consumption, ranging from childhood memories of quandong pies at bush relatives of muntries

Profile of the Muntries *Kunzea pomifera* (myrtaceae Family)

The Muntries. Or Muntharis are a ground hugging native plant of South Eastern South Australia. It has radial branches spreading over sandy ground for up to 3 metres in all directions. Its small round leaves are about 3 – 4 mm in diameter and the plant displays profuse cream feathery flowers in spring. The fruit form in clusters and ripen in February to march.

Muntries hold a significant place in the historical diet of the Narrindjeri people of the Coorong. These fruit played a major part in the diet, not only when fresh, but also after being dried and stored for the winter months. They were often traded with other tribes, usually after being pounded into a paste which was then dried – the original fruit bar.

Click below for more information.

<http://www.outbackpride.com.au/species/muntries>



www.malleenativeplants.com.au/category/bush-tucker/

MUNTRIES UPSIDE DOWN CAKE

www.abc.net.au/indigenous/stories/s2216394.htm

250 g butter
250 g caster sugar
4 eggs
1 teaspoon of vanilla essence
1 pinch of salt
4 cups of self-raising flour
1 cup of milk
1 1/2 cups of fresh muntries
1/2 cup dried quandong halves
2 bananas, peeled and sliced length-ways
1/2 cup each of ironwood honey and maple syrup
1/2 cup glace orange
1/2 cup glace ribberries
2 tablespoons of lime juice



Image of Ribberries

Preheat the oven to 180°C. Cream the butter and sugar. Add the eggs slowly one at a time and blend well. Sift in the flour and salt and fold in gently. Add the vanilla. Crush 1 cup of the fresh muntries and fold them through the cake mix, then transfer to a lightly greased cake tin. Bake in the preheated oven for about 50 minutes at 180°C.

For the topping: chop up the glace orange, quandongs, remaining muntries and the glace ribberries and put in a saucepan.

Mix the ironwood honey and maple syrup through the chopped fruit and add the lime juice. Warm through (do not Boil) and allow the fruit to soak in the syrup.

Turn the cake out of the tin and lay the sliced bananas over the top (bottom) of the cake. Spoon the warm topping mix onto the bananas and the cake, letting the juices run through into the sponge, which will soak it up. The honey and Maple syrup should hold the berries together on the top of the cake. Serve warm with cream.

For more bush food information:

Ribberries: *Which are in the above recipe*

Historical reference states that the fruits were regularly eaten by Aboriginal people in Australia. The fruit has been reported to be one of the first fruits consumed as jam or cordials by early colonists of Australia.

www.anfil.org.au/key-native.../flavour-of-the-month-january-



CELEBRATING NAIDOC WEEK

BUSH FOODS WALK

at

CAMP COORONG

TUESDAY 15TH JULY

BUS TRIP

- **10.30am** Bus leaves Lakes Hub Milang shop 2/10, Daranda Terrace Milang
- **12.00pm** BYO Lunch and explore the Pelican Path @ Meningie
- **12.40pm** Bus pick up point for Meningie residents - Meningie Lakes Hub
- **1.00pm** CAMP COORONG - BUSH FOODS WALK
- **3.30 pm**—Afternoon tea (included)
- **4.00pm**—Bus returns to Milang with drop off at Meningie along the way



Bookings and RSVP by 10th July 2014

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Funded by the Australian Government and the South Australian Government's Murray Futures program.



Government of South Australia

Department of Environment,
Water and Natural Resources



2014 National Landcare Conference

CELEBRATING OUR HISTORY, GROWING OUR FUTURE

September 17th to 19th

Registrations are now open for what promises to be an engaging and diverse National Landcare Conference and Awards as we celebrate 25 years of Landcare as a national movement.

Early bird registrations close on July 31st.
www.nationallandcareconference.floktu.com



Australian Government



Department of
Environment and
Primary Industries



Landcare
Australia

Finniss Catchment Group Inc.



Annual General Meeting

Guest speaker: Ben Simon
of Goolwa to Wellington Local Action Planning (GWLAP)

“Biodiversity Projects
in the Finniss Catchment:
a summary of current GWLAP on-ground works”

Finniss Catchment Group Reports
from the Chair, Treasurer, Nursery, On-ground works & WaterWatch
Election of new Committee

Uniting Church Hall, Finniss
Saturday, 12th July 2014 at 10.30 a.m.

All Welcome.

For further information phone Sally on 0428 441 978

Come learn how to make a Bat Box

In many urban house blocks and parks most of the older trees with hollows in them have been removed. This means that there are fewer places for hollow dwelling species such as possums, parrots and bats to live, bred and rest.

Following on from our successful " Bat talk " with Chris Grant at the MOSHCC in April the Lakes Hub and the Milang Men's Shed will be facilitating workshops to make some wooden Bat boxes . The workshops will be scheduled in August in time for installing the bat boxes in local bushland areas in Spring. The Bat boxes will be placed in and around the Milang District to help support the six species of bats in our region. If you are interested in making a bat box for your property or would like to join us in a hands on workshop please contact Megan at the Lakes Hub to register your interest.



Interesting facts about Bats !

- * Bats have existed for at least 55 million years.
- * Bats can consume half their body weight in insects per night during the warmer/summer months. Pregnant bats can consume up to their entire body weight in insects per night in the warmer/summer months
- * Bats go into 'torpor' during the cooler/colder months from approximately May to August.
- * Bats are our most environmentally-friendly pest exterminators feeding on many mosquitoes, beetles, flies, moths, and many, many more insects.
- * Bats are placental mammals giving birth to live pups/young just like humans do. Twins are common in some species of Bats.

On the Level

Lake Levels (AHD)

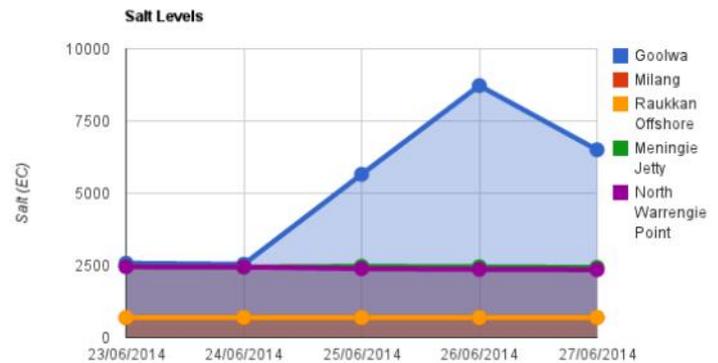
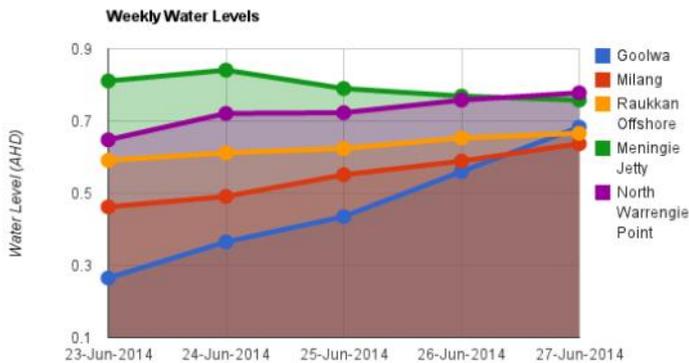
Date	Goolwa	Milang	Raukkan Offshore	Meningie Jetty	Nth Warrenge Point
23-Jun	0.265	0.462	0.591	0.811	0.648
24-Jun	0.365	0.491	0.612	0.841	0.721
25-Jun	0.435	0.551	0.624	0.79	0.723
26-Jun	0.56	0.589	0.653	0.769	0.758
27-Jun	0.683	0.637	0.666	0.758	0.778
Average	0.462	0.546	0.629	0.794	0.726

Salt Levels (EC)

Date	Goolwa	Milang	Raukkan Offshore	Meningie Jetty	Nth Warrenge Point
23-Jun	2576	685	693	2466	2452
24-Jun	2539	687	696	2443	2443
25-Jun	5652	693	692	2468	2385
26-Jun	8727	691	693	2451	2361
27-Jun	6504	692	696	2431	2349
Average	5200	690	694	2452	2398

Data received from: www.waterconnect.sa.gov.au/RMWD/Pages/default.aspx

Please note: salinity levels in the Goolwa Channel can be influenced by tidal ingress.



River Murray – Weekly Flow Advice

For weekly flow / level reports on the River Murray and Lakes go to the following website: www.waterforgood.sa.gov.au

Up-to-date River Murray flow and water level information can be accessed at the Department for Water, SA Water and Murray-Darling Basin Authority websites: [Water Connect](http://www.waterconnect.sa.gov.au), [Daily Flow Report](http://www.waterforgood.sa.gov.au), [River Murray Storage Data](http://www.waterforgood.sa.gov.au)

Details of river height and rainfall information in the River Murray within Victoria and New South Wales are available at the Bureau of Meteorology website: <http://www.bom.gov.au/vic/flood>

Information on the discharge of acid drainage water into the Lower River Murray can be accessed online at: www.waterforgood.sa.gov.au

For the latest River Murray Flow Report and Water Resources Update - 16th November 2012 visit: <http://www.waterconnect.sa.gov.au>

Some electrical conductivity ranges	
Water type	Electrical conductivity (µS/cm)
Deionised water	0.5-3
Pure rainwater	<15
Freshwater rivers	0 - 800
Marginal river water	800 - 1600
Brackish water	1600 - 4800
Saline water	> 4800
Seawater	51 500
Industrial waters	100 - 10000

Source: Suttar S., Ribbons of Blue Handbook. Scitech, Victoria, 1990.

CALENDAR OF EVENTS *for more info contact the Lakes Hub*

If you have any relevant community event or courses that you would like added to the Calendar of Events please contact the Lakes Hub.

June 2014	
27	
28	
29	
30	
July 2014	
1	
2	
3	
4	
5	
6	
7	NAIDOC WEEK
8	
9	
10	
11	
12	
13	
14	
15	Bush Foods Walking Tour at Camp Coorong Bookings via Lakes Hub
16	
17	
18	
19	

Disclaimer

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