

# Community Spirit

Available free online with news from West River, Hopetoun, Jerdacuttup, Munglinup, and Lake King and Ravensthorpe

## Wellness - Create & Connect



■ Full moon walk participants.

Photo supplied

### ■ Wellness Weekender

With covid looming, a decision was made to change the original plans for our 2022 Wellness Weekender from a 2 day event to a jam-packed 1 day event with various workshops and activities to choose from, and the addition of a Friday night Full Moon Bush Walk & Dreamtime Stories, picnic and live music to kick start the weekend.

Wellness, Create & Connect forged ahead!

35 people gathered to attend Friday

evening's bush walk and dreamtime stories lead by Carol Petterson, Menang Elder. What started out as a hot 38 degree day ended up a beautiful, balmy evening as participants meandered along the Jerdacuttup River on Carlingup Rd and were immersed in stories of Aboriginal culture told by Aunty Carol and her niece Belinda.

Just on dusk everyone arrived at a picnic spot nestled among the beautiful salmon gums, lit by twinkling lights and a setting sun, accompanied by acoustic tunes by musician Lachy Johns. This unique atmosphere created the perfect

place to settle in for a relaxing picnic - a chance to unwind with nowhere else to be and dinner and entertainment taken care of.

Saturday morning saw the group re-gather for morning tea, registration for the day's workshops and to receive a special gift from Perth based company Bare and Wilde—a box full of treats.

A smoking ceremony with Eugene Eades started the day, Carol presented a video of the Genestreams Songlines Sculptures Tourism Trails Initiative and Erika Jacobson from Edgewalkers, lead

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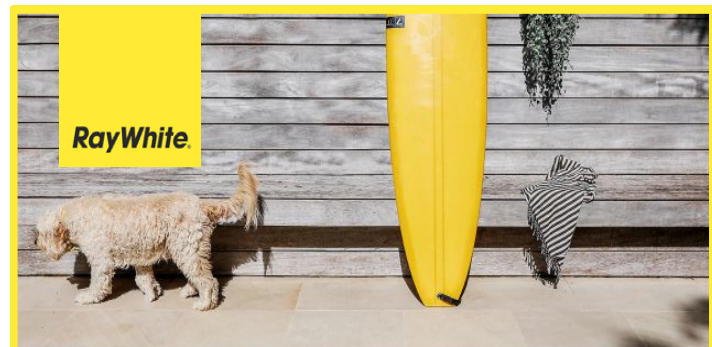
# LAND FOR SALE IN HOPETOUN



**227 Banksia Road: \$170,000**  
Land with Shed – 1.24Ha (3.06 acres). Yes you can afford a great acreage block close to the coastal town of Hopetoun. Just three kilometres from the sea with stunning views of the Fitzgerald River National Park and picturesque East Mount Barren. The bonus with this block, is that there is already a large shed with power and basic living quarters all ready for the weekend away this summer. Block size 1.24 hectares beautiful stands of native bush. This estate is serviced with electricity, phone and scheme water. There are no building time restrictions



**108 Orchid Road: \$97,500**  
Affordable Acreage – 4.1ha (10acres): Lakes Entrance Estate is just 14km out of town beside the Jerdacuttup River - the perfect location if you want peace & privacy, but still close enough to towns amenities and the glorious coastline of Hopetoun. This bush block is has dense native flora and abundant attractive wildflowers. It enjoys views across rolling farmland. There are sealed bitumen roads in place, underground power to the property boundary and telephone cabling in place. You can hold this block as vacant land with no building time restrictions or you can build now. There are large building envelopes.



## Ray White Rural South Coast WA Cleaning Roles Available

We are looking for self-motivated, enthusiastic persons to join our Cleaning Services Team.

Flexible, casual hours available.

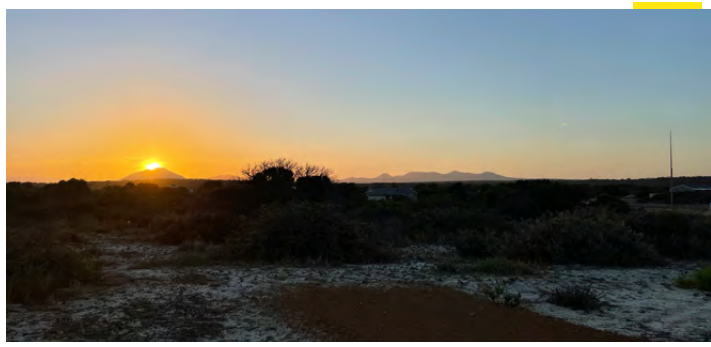
Applicants must provide

- a current resume and covering letter
- current national police clearance
- have your own transport.

For any questions regarding this position, feel free to contact us on **(08) 9838 3100** or visit the Ray White office.



**195 Banksia Road: \$120,000**  
This 1.04ha (2.57 acres) block has views of Mt Barren. Short drive to the National Heritage listed Fitzgerald National Park and pristine beaches. Build your dream home on natural bush block with abundant wildlife to be viewed. This block has bitumen road frontage with power & scheme water available. The property can now be fully fenced and no timeframes to build!



**252 Banksia Road: \$110,000**  
Small acreage with a stunning view! 1.35ha (3.34acres) If you want the comforts and convenience of a block close to town and serviced with scheme water, power and phone BUT also the peace and tranquillity of a native bush setting, then this block is ideal. Just three kilometres from the sea with stunning views of the Fitzgerald River National Park and picturesque East Mount Barren. 1.35 hectare block with no building time restrictions on the land, so you can hold as vacant land, and build when you wish. Your land. Your choice as to when you build.

### RAY WHITE RURAL (SOUTH COAST WA)

25 Veal Street Hopetoun  
raywhiteruralsouthcoastwa.com.au  
Ph: 08 08 9838 3100 • Residential Sales and Rentals 08 9838 3100 • Rural Sales 0429 299 797

# Wellness - Create & Connect

■ From page 1

the group in a motivational movement session before they broke off into their chosen workshops.

Some tried their hand at painting with the talented Kate Martin, others Pottery with Dunnart Studio's Cat Tink and some tried the benefits of creative thinking with Erica Jacobson.

It was a day where you tried your hand at something new, connected with old friends and made new ones and we thank all our presenters who travelled to help us create another amazing Wellness Weekender!

Many thanks to our sponsors FQM, Shire of Ravensthorpe, Southern Ports, Rave About Arts and the State Library of WA and thanks to our wonderful community members for supporting our



■ Full moon walk participants.

Photos supplied

event, even with the changes made last minute.

If you haven't seen our wrap up video of Wellness Create

& Connect you can watch it on our YouTube Channel, link below. Thanks to Astrid Volzke for putting this

together.

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



■ Ravy Ranges.




■ Wellness Weekend-Saturday.

*Thank you!*

**FOR ONLY BUYING WHAT YOU NEED**

**DON'T PANIC**—Hopetoun IGA have plenty of stock on hand.

Unfortunately due to the current situations we will not be advertising any specials for the time being.



30 Veal Street Hopetoun • 9838 3919

# Contacts

### Ambulance:

Emergency ..... 000  
Non-Emergency ..... 13 12 13

### Hospitals:

Ravensthorpe ..... 9838 2211  
Esperance ..... 9071 0888  
Albany ..... 9892 2222

### Doctors Surgery:

Hopetoun ..... 9838 3854  
Ravensthorpe ..... 9838 1600

### Dentist:

Ravensthorpe ..... 9838 1322

### Esperance Hospital

Public Dental Clinic..... 9071 0889

### Community Nurse/Child Health:

Ravensthorpe ..... 9838 2211

### Extended Care Nurse:

Hopetoun ..... 9838 3323

### Home and Community Care

Office ..... 9838 3144  
Mobile ..... 0429 889 675

### Community Vehicle Service

Coordinator ..... 0439 335 147

### Hospital Auxiliary:

Second Tuesday of the month 1.30pm in the Red Room  
Contact Judy Harp

### Allied Health:

Services such as Physio, Dietician, Occupational Therapy and Speech Pathology are available. Contact Ravensthorpe or Esperance Hospital to find out more about these services.

### Mental Health:

There is a Mental Health service available currently. Please contact Ravensthorpe Hospital to find out more about this service.

## Shire of Ravensthorpe Councillor Contact Details

Shire Council Offices..... 9839 0000

**Keith Dunlop**—Shire President.....

Phone: 9838 330; Mobile: 0428 383 302  
Email: Keith.dunlop@ravensthorpe.wa.gov.au

**Sue Leighton**—Deputy Shire President..... Phone: 0407 981 301

Email: sue.leighton@ravensthorpe.wa.gov.au

Tom Major..... Mobile: 0403 782 887

Email: Tom.major@ravensthorpe.wa.gov.au

Mark Mudie..... 0428 356 064

Email: mark.mudie@ravensthorpe.wa.gov.au

Graham Richardson..... Phone: 9838 3880; Mobile: 0474 492 810

Email: Graham.richardson@ravensthorpe.wa.gov.au

Cr Julia Bell..... Mobile: 0427 381 092

Email: julia.bell@ravensthorpe.wa.gov.au

Cr Rachel Livingston..... Mobile: 0429 634 596

Email: rachel.livingston@ravensthorpe.wa.gov.au

## Word of the Day

**extemporaneous** adjective | ek-stem-puh-RAY-nee-us

### Definition:

1 : composed, performed, or uttered on the spur of the moment : impromptu

2 : provided, made, or put to use as an expedient : makeshift

### Did You Know?

Extemporaneous, which comes from Latin ex tempore ("out of the time"), joined the English language sometime in the mid-17th century. The word impromptu was improvised soon after that. In general usage, extemporaneous and impromptu are used interchangeably to describe off-the-cuff remarks or speeches, but this is not the case when they are used in reference to the learned art of public speaking. Teachers of speech will tell you that an extemporaneous speech is one that has been thoroughly prepared and planned but not memorized, whereas an impromptu speech is one for which absolutely no preparations have been made.



**NEXT ISSUE DEADLINE:**  
5pm, Sunday April 17, 2022

### ALL ENQUIRIES:

contributions@cospirit.net  
Kylie Thomas, Co-ordinator, 0408 840 447  
Or Attn: Contributions, PO Box 135, Ravensthorpe 6346.

Or Hopetoun and Ravensthorpe Community Resource Centres will accept written articles.  
Include name, address and phone details in all correspondence.

### ARTICLES AND PHOTOS

Articles to be sent in Word format.  
Photos to be sent in JPEG format.  
Photos minimum size 500mb.  
Maximum of two photos per email.  
Photos of children require parental permission.

### GENERAL ADVERTISING AND CLASSIFIEDS

Content to be sent in Word, PDF or JPEG formats.  
Classified proofs on request only.

### ACCOUNTS AND SUBSCRIPTIONS

Email financeadmin@cospirit.net  
Phone enquiries Sandi Hunter,  
0417 950 615.

### MANAGEMENT COMMITTEE

Email secretary@cospirit.net or  
PO Box 135, Ravensthorpe 6346  
GRIEVANCES—contact secretary by email secretary@cospirit.net

# Fishing for Abalone in the Southern Zone

Abalone are a type of single-shelled marine snail found in temperate waters around the globe. Sometimes referred to as ear shells or sea ears due to their shape, abalone are also known as perlemoen in South Africa and pāua in New Zealand.

Bruce Pascoe, in his book *Dark Emu*, even notes how some early Australian settlers referred to abalone derogatorily as 'mutton fish', most likely as their method of preparing the meat by simply boiling it led them to believe it was anything but a delicacy.

Today, despite fishing pressures and examples of stock collapses worldwide, including a stock collapse in Western Australia's Kalbarri region following a marine heatwave event in 2011, WA can boast one of the few remaining sustainable wild-stock abalone fisheries in the world. There are eleven species found in WA waters, with Brownlip, Greenlip and Roe's the target of a lucrative commercial fishery—the first abalone fishery in the world to be certified sustainable by the Marine Stewardship Council.

Abalone is also significant to the recreational sector, with about 18,500 recreational licences issued during the 2020/21 season. The West Coast Zone also holds the title of one of the shortest recreational fishing seasons in the world - with the 2021/22 season lasting a mere four hours!

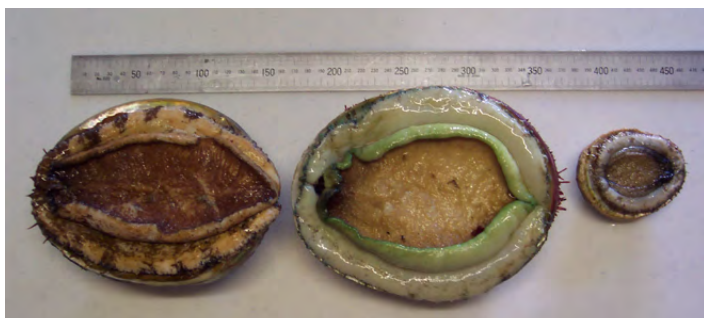
In WA's Southern Zone, which extends from the Busselton Jetty to the South Australian border, the abalone season extends over nearly eight months, from October 1st to May 15th the following year. If you're planning to fish for abalone in the Southern Zone it is important to follow the rules to ensure the fishery remains sustainable into the future.

A licence is required to recreationally fish for abalone and you must be able to produce it if required. The standard fee for this licence is \$50, or \$25 for concession card holders, and they can be purchased online at the Fisheries website ([www.fish.wa.gov.au](http://www.fish.wa.gov.au)) or DoT Direct ([www.transport.wa.gov.au/dotdirect](http://www.transport.wa.gov.au/dotdirect)). A useful place to store the details of your recreational abalone licence is the 'My Tools' function of the free Recfishwest app, where you can take a photo of your licence, enter the details, and even set a reminder prior to the licence expiry date.

As mentioned previously, in the Southern Zone rec fishers can fish for abalone from the October 1st to May 15th the following year. No abalone can be recreationally caught outside of this season.

Bag and size limits also apply, with licenced fishers able to take 20 Roe's abalone a day that meet the legal minimum size of 60mm, and a combined 5 Greenlip and Brownlip abalone a day that meet the legal minimum size of 140mm. Once you have removed an abalone from the reef it is deemed part of your catch, and you must stop fishing once you reach your bag limit. Importantly, licenced abalone fishers can only catch their own abalone and cannot add to someone else's catch.

Another important rule that applies to this fishery is that abalone cannot be shucked within 200m of the high-water mark. Department of Primary Industries and Regional Development's Community Education Officer, Kimberly Jenkins, noted that "the



■ Left to right, Brownlip, Greenlip and Roe's Abalone.



■ To correctly measure abalone, measure across the widest part of the shell using an abalone gauge. To increase survival rates, measure each abalone before you take it off the reef.

reason for this rule is to ensure Fisheries and Marine Officers can check size limits and so that fishing offal does not spoil the beach for others or attract stingrays and other marine foragers".

It is also important to note that abalone meat or any abalone material cannot be used as fishing bait. This rule is in place to protect WA abalone from abalone viral ganglioneuritis, or AVG, a disease that has been found in the waters of South-eastern Australia and has the potential to be devastating if introduced to WA.

For further information about abalone fishing, visit [fish.wa.gov.au/rules](http://fish.wa.gov.au/rules)

## Community Development Fund



### FUNDING ROUND 2022/2023 NOW OPEN

The Shire of Ravensthorpe would like to invite the community to submit grant applications for projects that will qualify for the 2022/2023 Community Development Fund program.

The objectives of the funding program are to:

1. Provide financial assistance for organisations and/or projects which benefit the community.
2. To assist community based (not for profit) organisations to develop and maintain facilities.
3. To provide community based (not for profit) organisations with relief from Council imposed fees and charges.
4. The funds cannot be used to cover staff wages or employment costs.

Should your application be successful, generally approved funds will be available in September following the adoption of the Shire's annual budget.

**Closing date for applications is 4.00pm Friday 29 April 2022**

The Community Development Fund Guidelines and an Application Form for the 2022/2023 round are available at the Shire Office or you can download all the relevant information on the Shire Website at <https://www.ravensthorpe.wa.gov.au/council/community-support/community-development-fund.aspx>

**Gary Clark**  
Acting Chief Executive Officer

# THE PROGRESS REPORT

Welcome to the first of our Hopetoun Progress Association news bytes for 2022.

January was events month, kicking off with the **FQM Summer Festival** including the welcome return of Band in the Park. The festival was run as a collaborative event with Hopetoun CRC, Hopetoun Primary School P&C, Rave About Arts and Windspray Arts all holding events across the fortnight. Thanks to all involved and First Quantum Minerals (Ravensthorpe Nickel Operation) for the generous support.



■ Credit: Jarvis Smallman



We also hosted the **Shire of Ravensthorpe Thank a Volunteer Day** event—an afternoon of music, refreshments and great company for our fantastic volunteers!



■ Credit: Jarvis Smallman



Our final event was the **Australia Day Brekky** including the Shire's presentation of citizenship awards to some very deserving community members.



■ Credit: Sue Leighton, Deputy Shire President



Thanks so much to our fabulous members who volunteer their time to make these events possible! Head to our Facebook page to keep up to date [www.facebook.com/HopetounProgressAssociation](https://www.facebook.com/HopetounProgressAssociation)

During February and March we have focussed on project planning and of course managing the community housing units. We are constantly on the lookout for grant opportunities and potential projects to benefit the local community - we have a few projects in the planning stages so watch this space!

The next event on our calendar is some Hopetoun **IGA Monsterball Fun** on Good Friday April 15th, 2022, 9am-12pm. Bring the kids along for three hours of bouncing and sliding on Monsterball inflatables—entry is free!

Our sincere thanks to Russell & Astrid Stephen for the sponsorship and Hopetoun Everett Country Golf Club for the use of their grounds.

Hopetoun Primary School P&C will be running a cake/refreshments stall and we will also have a car boot sale running. Sellers can register for a bay at <https://events.humanitix.com/good->

[friday-car-boot-sale](#) We hope to see you there!

Do you have an idea to make our community even more vibrant? There's no better time than right now so let us know! Not a member yet? New members are always welcome so get in touch, no experience necessary.

—Hopetoun Progress Association Inc

President Sam Foulds, Vice President Dene Bingham, Treasurer Ainsley Foulds, Secretary Elaine Knpton, Committee member Leonie McNamara  
[hprogress@westnet.com.au](mailto:hprogress@westnet.com.au)

# HOPETOUN CRC News

## Escape & Make

Over two afternoon sessions youth aged 12-25 will have the opportunity to attempt an escape from 'The Box' before designing and making their own escape room.

They must be available to attend both afternoons on the April 12th and 13th.

Limited places are available, contact us now to secure your spot!

This experience is made possible through funding from the Department of Communities, Rave About Arts & Euphorium.

Direct message your RSVP on insta: @hopetouncrc

Email [hopetoun@crc.net.au](mailto:hopetoun@crc.net.au) or phone Hopetoun CRC 9838 3062

'The Box' is also open to families and friends of all ages... see the link below!

Click here to visit ['The Box' experience](#)

## Get your recreational skippers ticket!

Dream of dropping a line into the deep blue? Looking for a new family hobby?

Book yourself in for this opportunity with an instructor from the South Regional TAFE by emailing [admin@fitzbn.com.au](mailto:admin@fitzbn.com.au) or calling 9838 3062.

## For the love of our environment!

Did you know the Hopetoun CRC have sustainability initiatives like recycling stations and healthy products for cleaning and washing in the home?

Visit us Monday to Friday between 9am and 4pm to explore our range of recycling programs and beautiful products!

## Live Virtual Zumba

Every Monday at 6.45pm, suitable for all levels.

Book online or pay cash on the night - \$10 per class

[www.hopetounwa.com/zumba](http://www.hopetounwa.com/zumba)

## Table Tennis Social Club

No matter the weather outside or your innate co-ordination levels, Monday's just got a whole lot more fun in Hopetoun. Table Tennis is a sport for all ages and skill levels, although we do host a monthly tournament for those with a competitive spirit.

Join us for some light bites courtesy of funding from Allkem/ Galaxy and our fabulous volunteers in the kitchen. Special thanks to the Men in Sheds who donated the tables for our youth and community this year.

The next session is on Monday April 4th, before we break for three weeks, returning on Monday May 2nd. No bookings required, just show up!

## Be Connected and Google Earth

Over 50? Want to know what treasures of education, art and travel can be found in the digital world? Join Donna as she leads you through the step-by-step process of the Be Connected and Google Earth resources.

We meet on the first Wednesday of the month. Bookings essential, contact the CRC by phone (08) 9838 3062 or email via the link below!

[Secure a spot!](#)

## An Easter Special for Storytime

Little ones are invited for a special edition of Storytime on the April 11th.

Bookings are not required, for more information call us on (08) 9838 3062.

## Youth Space, the Wednesday afternoon hang out..

From 4pm-6pm on Wednesday's (including the holidays) the youth have exclusive access to the library services along with snacks and activities. It's a healthy, safe and inclusive space for connection, reflection and creativity.

All youth aged 12-18 are invited.

■ Continued page 8

**OPEN FOR BUSINESS AS USUAL**

## ALBANY

**CITY TOWING SERVICES**

**Paul Armstrong**  
Proprietor

Mobile 0418 936 010  
Tel: 9842 2838  
14 Prior Street Albany WA 6330  
[paularmstrong@smashrepairer.com](mailto:paularmstrong@smashrepairer.com)

*Paul Armstrong*  
*Panel Beaters*

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[www.smashrepairer.com](http://www.smashrepairer.com)

# Music lovers dazzled

## ■ RRAC

Rave About Arts had Classical music lovers dazzled by the fairy lights draped from the ceiling and awed in ways they couldn't possibly imagine by STRINGS - Quartet Gone Rogue performed by Perth Symphony Orchestra in Hopetoun on Saturday March 26th.

This performance came as part of the two year funding from the Department of Local Government Sport and Cultural Industries (DLGSCI) "In the House" which means that we have been able to bring more shows to our region on a mini touring circuit between 4 towns in the Ravensthorpe, Lake Grace and Jerramungup Shires.

This is the second year of the two year funding for shows like these and we have a whole thread of performances and events lined up for the rest of the year. You can stay up to date with upcoming events by joining our mailing list or by following us on FB.

The night evening started with pre-show music by Israeli support artist Shmoné, who added a generously groovy energy with his saxophone, guitar, vocals, and live use of a music loop station.

The audience settled in and the musicians from Perth Symphony Orchestra introduced themselves one by one, starting the show, they took the crowd into the rarely seen world of classical rehearsal and infused the performance with a cheeky comedic twist.



■ Continued page 9

■ Photos courtesy Dene Bingham

## HOPETOUN CRC News

■ From page 7

Call the Hopetoun CRC to find out more information about Youth Space (08) 9838 3062.

### BreastScreen WA visits Ravensthorpe

Book in to a free appointment while the BreastScreen WA team are in our region. For more information call 13 20 50 or follow the link below.

[Find Out More](#)

### Disaster Relief Fund

Hopetoun CRC are here to assist those who have been effected by the recent bushfire disaster while the CWA have been organising the donations of physical items.

Please call our team today if you have any questions (08) 9838 3062.

### Hopetoun Community Chest Fund

Our Community Chest offers subsidies for people with a concession card, or otherwise experiencing extreme financial hardship, to attend local events and activities.

Subsidies available for:

- All Rave About Arts events and programs
- Adult Southerners Winter Sports Registrations
- Hopetoun Primary School Uniforms
- Ravensthorpe Winter Formal
- School Book List items

A huge THANK YOU to FQM for supporting the Community Chest Funds.

### School Holiday Fun!!

Join in on the action these holidays with stories, arts and crafts.

Bookings are not required. Parent's are encouraged to participate in these activities.

Contact the Hopetoun CRC on (08) 9838 3062 for more information.



# Music lovers dazzled

■ From page 8

Playing well known classics from Mozart and Bach and then dabbling in modern reinterpretations of hits from Britney Spears, Nirvana, Led Zeppelin, and ending the grand performance with Queen's Bohemian Rhapsody which had the crowd singing along.

After the main event, Shmonè continued to keep the vibes in the room energetic and electric with a post-show music set that brought everyone up and dancing.

We understand that a day/night out needs to be something worth going out for, so we always look at ways that we can add value to our events. Whether it's workshops, extra live music, catering, running a bar, a creche, or running buses.

Workshops were run in the 4 communities and the children who attended got a fabulous opportunity to see an interactive performance presentation where they were introduced to some of



the instruments of the string family, and they talked with the musicians about a range of music including classical favourites and well-known songs from movies.

Performances like these are made possible thanks to funding from DLGSCI and support from our amazing Rave About Arts volunteers.

—Rave About Arts



■ More photos page 10



**Hon Shelley Payne MLC**  
Member for the Agricultural Region

**How can your local member help you?**

- ✓ Assist with State Government issues and departments
- ✓ Support you and community groups on local issues, events and projects
- ✓ Raise issues in Parliament and approach Ministers on your behalf

92 Dempster Street, Esperance WA 6450

- ✉ 9072 1786
- 📧 shelly.payne@mp.wa.gov.au
- 📘 ShelleyPayneMLC



# Music lovers dazzled



■ Photos courtesy Dene Bingham



# News in the Region

## Funding for Goldfields-based Aboriginal businesses

Goldfields-based Aboriginal businesses can apply for grants of up to \$20,000 as part of the Goldfields Building Better Aboriginal Business (BBAB) grant program.

The State Government funding, administered by the Department of Primary Industries and Regional Development (DPIRD), supports businesses as they undertake training in corporate governance and strategy development, positioning them to pursue new opportunities in the Goldfields, and increase their earning and employment capacity.

The grants will help business owners and operators to effectively implement their business action plans, build business confidence, and identify opportunities to diversify and expand.

Successful applicants will receive specialist support suited to the needs of their business.

For more information, call Jade Malanczak 0428 234 427, visit the [DPIRD website](#) for application guides and forms, or email [aed@dpiird.wa.gov.au](mailto:aed@dpiird.wa.gov.au).

Applications are now open, closing 4.30pm on 14 April 2022. Application guides and forms can be found on the [DPIRD website](#).

## Leonora Independent Living Village Tender Awarded

Leonora's independent living village Ageing in Place is a step closer with Majstrovich Building Company awarded the tender for construction works.

The project received \$3.5 million in funding as part of the WA Government's Regional Aged Accommodation Program (RAAP), supported by the GEDC.

The independent living village will see eight new units built with adjoining courtyards, a community hall, communal gardens and recreational amenities.

RAAP has funded several independent living units across regional Western Australia

The Shire of Leonora is contributing \$1 million towards the \$4.5 million project.

## Who has received RED funding in this round?

Five Goldfields-Esperance projects were recently announced as recipients of the State Government's Regional Economic Development (RED) grants, round four funding, sharing a total of \$785,000.

Follow the links below to find out more about each project.

- [Expansion of Yirri Grove operations](#)
- [Funding gives Goldfields Machining opportunity to fire on all cylinders](#)
- [New timber initiative in Norseman](#)
- [Laverton Training Centre](#)
- [Esperance Diving & Fishing 'Seas it all'](#)

If you or your organisation or business is interested in applying for a future RED Grant through the GEDC, contact Regan Brewer, Senior Regional Development Officer on 9080 5015.

## Online mapping to help shape South Coast Marine Park

Local residents and visitors to the south coast are encouraged to use a newly developed online mapping tool, designed to capture information on how the coastal area is used.

The 'south coast marine values mapper' will help inform planning and future management of the proposed [South Coast Marine Park](#), including marine park zoning, alongside other direct community engagement.

The Department of Biodiversity, Conservation and Attractions (DBCA) developed the tool in partnership with social researchers at the University of Western Australia and traditional owners from the Esperance Tjaltjraak Native Title Aboriginal Corporation.

For more information about the marine park proposal, speak to Lori-Ann Shibish, Community Engagement and Information Officer, about the marine park proposal at the Esperance DBCA office or email [pscmp@dbca.wa.gov.au](mailto:pscmp@dbca.wa.gov.au).

## Community connects for Harmony Week

GEDC staff had a fantastic time at the Kalgoorlie-Boulder Harmony Week festivities on Saturday March 19th.

Centennial Park was full of music, dancing and a sea of smiles as the community gathered to celebrate cultural diversity and unity.

Cultural artefacts were on display, people dressed in beautiful national costumes and the delicious food stalls were popular with the masses.

Attendees watched dance and musical performances, with many participating in lessons on stage.

It was a great opportunity to connect and celebrate our diversity.

As a proud supporter of the event, the GEDC applauds our multicultural community for making it a day to remember and we thank you for the valuable contribution you make to our region.

## Small business support for the regions

Business Local advisors are local people that understand our local area and provide valuable services and advice to existing and aspiring business owners in the region.

As part of services offered by both the Kalgoorlie-Boulder and Esperance Chambers of Commerce and Industry, experienced advisors provide tailored information, training, and employment support.

From Wiluna to Hopetoun, businesses can access free, confidential guidance in areas such as starting a business, planning for success, marketing your products and services, social media and digital marketing, employing staff, financial management and more.

The Business Local Program is funded by the State Government through the Small Business Development Corporation (SBDC).

Find out more [here](#) or contact your local Advisor in Kalgoorlie-Boulder (08) 9021 2466 or Esperance (08) 9071 5142.

# Equestrian AGM report

## ■ Ravensthorpe Equestrian Club

The Ravensthorpe Equestrian Club held their AGM on Sunday February 27th at the Club grounds.

The meeting was opened with Jeanette Denham, the outgoing club president, thanking all attendees for their work during the year in assisting with the club to achieve a number of ridden and community events.

Club Life member, Ron Ross then took on the role as returning officer for the allocation of positions, with the outcomes as follows:

- President - Charles Denham
- Secretary - Jeanette Denham
- Treasurer - Jenny Chambers

With the change in Secretary, the club wish to thank the outgoing secretary, Hayley Wisewould, for all her work and support for the club over the years!

As the outgoing President, Jeanette also tabled the following President's report.

"2021 was a very busy year for the club. Feedback from all the events hosted was extremely positive in terms of both the club and what the area and community has to offer.

"We finished the year with 49 memberships from our various events. I want to thank the many volunteers and sponsors who made the formal events possible, including Charlie, who worked tirelessly in the kitchen during the Endurance Event and the Gymkhana; Jenny, for all her behind the scenes work with the books and the Challenger family for the organising and running the gymkhana event.



■ Henry getting busy on the ride-on, cleaning up the weeds round the club house.



■ Jenny Chamber and Charlie having a laugh and weeding near the brick area - we hope to extend the bricks for this area in 2022.

# Easing of public health measures

Albany businesses have been affected by the seemingly ever-changing Covid restrictions and mandates since they first came into effect mid-March 2020. This gradual winding back signifies a welcomed light at the end of the tunnel for a number of businesses, however this does not feel like enough and there is still a large majority of Albany businesses that fall into the 'higher-risk' category.

As of Wednesday 30 March, WA has recorded over 95% of the population are double vaccinated and approximately 74.7% of those aged 16 and older have already received their third dose. WA's vaccination rates are one of the highest in the country which makes the continuation of these restrictions seem unnecessary, and business owners are starting to question the logic of the mandates when considering the amount of people gathering in a larger retail store as opposed to a small cafe.

Those in the high-risk category are generally considered small business and are not only required to find extra staff, or redistribute their workers at the cost of services or

experience they would usually provide to customers, but they are also having to request patrons show their proof of vaccination status as well as sign in. These mandates businesses are required to enforce and pay for are adding extra pressure and stress when you also consider they are still having to navigate worker shortages and further loss of income, if for example, customers forget to bring their vaccination certificates.

Furthermore, come 31 March customers who choose to shop at any low-risk business won't need to either sign in or show proof of vaccination.

ACCI President Kerry Fry said the continuing mandates are not applied equally to all businesses and only specific sectors are being targeted creating a shadow lockdown.

"Albany businesses have shown great resilience and adaptability in adhering to the constantly changing mandates and restrictions under the threat of massive fines, but the pressure of having to adhere to these requirements for such an extended period could ultimately close businesses for good."

ACCI CEO Lisa Smith noted the Chamber had provided opportunities for business to discuss the evolving restrictions and mandates where the focus revolved around the need for business's constant review of their contingency plans.

"We have encouraged businesses to contingency plan and have Covid responses in place, however regardless of how

■ Continued page 14

## Equestrian AGM report

■ From page 12

"As well as the riding events, we also hosted the Devonshire Morning Teas during the Wildflower Show and Spring Festival, and again a big thankyou to Madeleine Norman, Margaret Roy and the Thompson family for their help in the kitchen and with serving during the day.

"Over the year there were some further improvements to the grounds and buildings with the addition of more sand to the barrels and the round yard and the repairs to the shade sail cloth. We thank Sandgroper Seat covers in Esperance for donating the cost of repairs to the shade sail to the club.

"With positive feedback from club members, who come from both Ravensthorpe and Esperance, I look forward to seeing our club continue to grow in 2022 by continuing with a range of formal and informal club rides and play days. Thank you once again. Jeanette Denham - 2021 Club President."

Following the meeting, club members had a bit of a busy bee and tidy up in readiness for the first event of the season, a trail ride and obstacles/games play, to be held on April 9th.

Going forward into 2022, the club are looking at consolidating their ride calendar by offering a range of ride activities including 'play days' at the club grounds, trail rides in and around the local area, gymkhana play dates and, of course, the very popular Gymkhana event over the October long weekend.

Stay tuned on their Facebook page and the Community Calendar for planned ride details and other upcoming events.

—Jeanette Denham, secretary

### Peter Rundle MLA Member for Roe



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**THE NATIONALS** for Regional WA

Authorised by Peter Rundle 83 Federal St, Narrogin, WA 6312

# PADDOCK PRACTICES

## Dry sowing and pre-emergent herbicides

Obtaining consistent performance from a pre-emergent herbicide used with dry sowing is often difficult, as it is impossible to predict the timing and magnitude of the opening rainfall event.

Having a crop germinate as close as possible to the targeted time for that variety often helps to optimise yield potential. For larger operations, the need to sow big areas in a short space of time to meet the correct germination window poses logistical challenges.

As a result, sowing some paddocks dry before the expected break to the season is a tactic used by many growers to spread the planting operation and address these issues.

When the season does break, weeds typically emerge with, or sometimes ahead of the crop. Therefore it is important to have an effective pre-emergent herbicide in place to manage this first weed flush and allow the crop to establish with as little weed competition as possible.

There are several important points to consider when using pre-emergent herbicides and dry sowing.

### Know your weed seed bank and where the weed seeds are

It may sound obvious, but users need to know what weed species are likely to emerge, so an effective herbicide can be chosen.

The size of the expected seed bank is also a very important

consideration, as there is no opportunity for a pre-seeding knockdown herbicide when dry sowing. A large weed germination emerging with the crop will place extreme pressure on any pre-emergent herbicide. No pre-emergent should be expected to achieve 100% control, especially when applied dry. So even the best performing pre-emergent herbicides can still look 'dirty' after the season break if the starting population was several hundred weed seeds per metre. Therefore, only select paddocks for dry sowing that are known to have low weed seedbanks and leave sowing of 'higher weed pressure' paddocks until after a robust knockdown program can be implemented on the initial flush after the break.

The presence of high seed dormancy is likely to reduce effectiveness of pre-sowing weed control. High dormancy populations are less responsive to delayed sowing and knockdown herbicides because of slower weed establishment from the seedbank. These later emerging weeds can more aggressively compete with late sown crops as their vigour slows down in the cooler months and significantly impact yields. Improved familiarity with the dormancy behaviour of the weeds in different paddocks on the same farm will enable better targeting of weed populations with different management tactics.

Where are the weed seeds? In a long term zero-till paddock, most of the weed seeds should be close to the soil surface. In this situation, a low-mobile herbicide that will stay relatively shallow in the soil profile is likely to be preferred.

■ Continued page 15

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Hon Shelley Payne MLC

MEMBER FOR AGRICULTURAL REGION

Authorised by S Payne 92 Dempster Street, Esperance WA 6450.

## Easing of public health measures

■ From page 13

much contingency planning a business owner might do, they cannot safely predict what the State government's next move will be. Businesses have been focusing on surviving rather than thriving; doing business is about growth, prosperity and contributing to the community at large, but with these mandates still in place businesses are still restricted in being able to operate freely."

Albany businesses are our community and it is important that we all come together to show support for those businesses that are still considered high-risk. When all restrictions are lifted, we still want to have a vibrant business community to enjoy.

The Covid-19 virus is non-discriminatory and doesn't see a businesses' safety or health ranking and low risk businesses were, and still are, just as likely to see a Covid outbreak as those considered high-risk.

To help ease the burden currently imposed on business in the high-risk categories that are already struggling, we would like to see the State government remove the need for businesses to police proof of vaccination status of patrons.

■ Media Release

## PADDOCK PRACTICES

# Dry sowing and pre-emergent herbicides

■ From page 14

However, if the paddock has recently been cultivated, then some of the weed seedbank will be deeper in the profile and therefore a more mobile herbicide may be needed to reach these deeper germinating weeds.

### Herbicide loss to the environment

Some herbicides can be broken down by UV light or lost to volatilisation if left exposed to the environment. For these herbicides, the rate of loss generally increases with warmer temperatures and higher levels of sunlight - which often occurs with dry sown paddocks that are generally planted early.

If the herbicide being used is subject to these losses, then it will be important to ensure that it is correctly incorporated soon after application. A common 'mistake' that can occur, especially on very large seeding operations which tend to utilise dry sowing for logistical reasons, is that the speed of pre-emergent application is often significantly faster than the speed of sowing. So therefore the sprayer gets further and further ahead

of the planter, and hence time to incorporation gets progressively longer. Ideally, for a volatile herbicide such as trifluralin, do not spray more than what can be sown within the following 4-6 hours.

Some herbicides will also bind to stubble.

Trifluralin binds extremely tightly to organic matter. Once it has dried on stubble it will effectively be impossible to remove with subsequent rainfall. The result is that less herbicide reaches the soil when used in a high stubble situation.

For other herbicides, the relative strength of binding provides an indication of the rainfall volume/intensity that will be required to move herbicide off the stubble on onto the soil.

### Seeder type and set-up

A well set-up knife point and press wheel seeding system balances row spacing, speed of travel and soil characteristics, to remove herbicide treated soil from above the seeding trench and throw it into the inter row area to cover it, but without soil throw into adjoining seed trenches. Such a setup will

## General principles include:

- Do not dry sow paddocks with high weed seedbanks - delay sowing until after an effective knockdown strategy is implemented.
- Ensure correct depth of seed placement. This can be especially difficult in dry conditions.
- For herbicides sensitive to environmental losses, incorporate soon after application.
- Low disturbance disc seeders are not recommended for use with several herbicides, as they do not provide the required spatial separation of crop seed and herbicide, which is often essential with dry sowing.
- A herbicide with a low level of mobility (low water solubility and higher level of soil binding) may often be of a lower risk for crop damage and may remain in closer proximity to the weed seeds - thus assisting weed control. However these herbicides may give poor control if rainfall after the break is low or patchy, or where the paddock has been previously cultivated and weeds seeds germinate from depth.

generally reduce volatility and UV losses, while the mechanical incorporation from this process will also commence some soil binding (providing there is some soil moisture). Additionally, this system will move the majority of the herbicide away from the seeding row, which provides an increased level of crop safety.

In low rainfall environments it may be tempting to set up the tyned seeder to leave a distinct planting furrow to

capture and concentrate any small rainfall events directly over the seed row in order to assist crop germination. Be aware that this practice may also concentrate residual herbicide directly over the seed and lead to crop damage.

A low disturbance disc seeder provides minimal soil throw and incorporation, leaving surface applied herbicides more exposed to the environment. For some herbicides, this may result in considerable environmental loss.

■ Continued page 17

Key ryegrass herbicides	MOA Group	UV loss	Volatility loss	Binding to stubble
trifluralin	3	Low - Moderate	Moderate - High	Strong
propyzamide (Rustler®)	3	N.S.	N.S.	Some
bixlozone (Overwatch®)	13	N.S.	N.S.	Low
tri-allate (Avadex®)	15	N.S.	Moderate - High	Significant
prosulfocarb (Arcade®)	15	N.S.	N.S.	Significant
s-metolachlor (in Boxer® Gold)	15	Moderate	Low	Very low
metazachlor (Butisan®)	15	N.S.	N.S.	Very low
pyroxasulfone (Sakura®)	15	N.S.	N.S.	Very low - low
carbetamide (Ultr®)	23	N.S.	N.S.	Very low
cinmethylin (Luximax®)	30	N.S.	Moderate - High	Low
napropamide (Devrinol®)	0	Moderate - High	N.S.	Some

N.S. Not significant



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**TERMS & CONDITIONS:**

- Design must be **completed by client** and submitted as a JPEG or PDF.
- Are to be for **FREE Local Community Events** only.
- To be placed on Notice Board at Community Spirit discretion.
- Notice Board is free providing there is to be a follow up article for the paper after the event. If no is article provided then the group will not be allowed this space again.
- There is limited area for the Notice Board so first in will get the space.

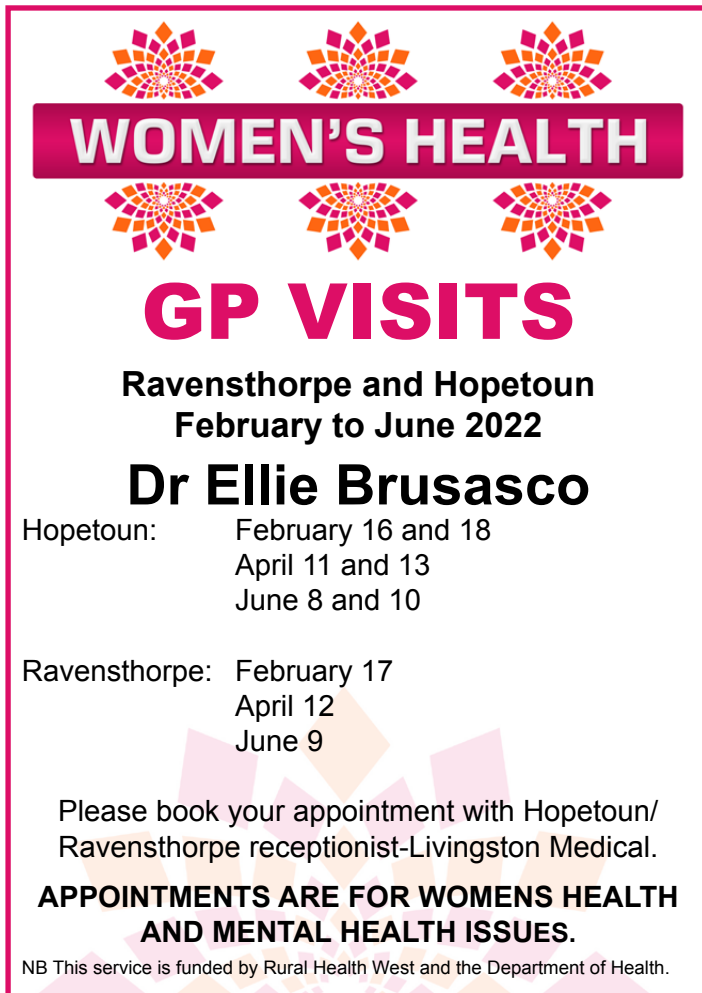
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**February to June 2022**

**Dr Ellie Brusasco**

Hopetoun: February 16 and 18  
April 11 and 13  
June 8 and 10

Ravensthorpe: February 17  
April 12  
June 9

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## Did you know?

The 1831 London Bridge was sold in 1962 when it needed to be replaced. It was bought by Lake Havasu City, Arizona, to help tourism.

By applying even pressure on an egg, it is nearly impossible to break the shell by squeezing it.



## PADDOCK PRACTICES

# Dry sowing and pre-emergent herbicides

■ From page 15

Additionally, with many disc seeders, the seed slot may be left open. This may result in herbicide easily and rapidly moving into the planting slot following the first rainfall, which can often result in excessive crop injury.

Generally low disturbance disc seeders are not recommended for dry sowing with pre-emergent herbicides, and especially not with volatile herbicides which are subject to significant losses if not adequately incorporated.

In dry soils it is often difficult to maintain expected planting depth, especially in paddocks with variable soil types. While this can also occur with tined planters, it is typically of more concern with disc systems. Vertical separation of the crop seed from the pre-emergent herbicide is extremely important when dry sowing. Sowing too shallow places the crop seedling closer to the herbicide and thus at potentially greater risk of damage.

### Herbicide degradation after incorporation

Typically pre-emergent herbicides will be incorporated when dry sowing. If sowing is 'early' then the soil may still be warm.

All pre-emergent herbicides are degraded by soil microbes. The primary requirements for soil microbial activity are moisture and temperature.

If the zone where the herbicide has been incorporated is totally dry, then there is unlikely to be any significant degradation occurring, until the opening rainfall.

However, where there is some moisture in the soil at application, or there are small rainfall events that are not enough to initiate crop germination, then there is risk of some microbial herbicide degradation occurring prior to the true break. This will be more significant if sowing early when the soil temperature is still warm.

Where inversion tillage has occurred, the subsoil at a depth of 20-30 cm is brought to the surface, replacing the top soil which is then placed at depth. Soil brought to the surface may have very different properties to the previous soil surface e.g. differences in pH and/or soil texture. It is therefore possible that this 'new' soil surface may behave



■ Optimising pre-emergent herbicides when dry sowing can be achieved through understanding a few key factors.

very differently to the soil prior to the inversion tillage event. Depending upon the individual situation, it may be possible that more herbicide is freely available in the 'new' soil surface due to less organic matter and less microbial degradation, and hence greater risk of crop injury occurring. It is also possible that more herbicide binding occurs e.g. where clay is brought to the surface and sand placed at depth.

It is impossible to calculate how much herbicide may have degraded if the season break is delayed longer than planned, as there are many different factors involved and their impact will be different in every situation. Therefore it is not possible to accurately predict a rate to 'top up' the herbicide if emergence has been delayed. It is unlikely that the pre-emergent herbicide applied when dry sowing should completely 'fail' due to a delayed break, assuming it was adequately incorporated at application. However, the length of residual control may be reduced should there have been excessive losses prior to the break of season.

Where users are concerned that the expected length of residual may have been compromised, an early post emergent (EPE) of a registered pre-emergent should be considered.

### What happens when the season breaks?

If the herbicide has not been incorporated (e.g. a low disturbance

disc system) then opening rainfall will be required to wash the herbicide into the soil. Even when using an incorporation by sowing (IBS) system using knife points and press wheels, there will still be some herbicide remaining on the soil surface, or on stubble, which will be washed into the soil following rainfall (with the exception of products such as trifluralin which bind very strongly to stubble). The amount and intensity of rainfall along with herbicide properties of water solubility and how strongly they bind to organic matter and soil, will influence the degree to which this incorporation occurs with the first rainfall.

When starting with a dry soil, the first rainfall is likely to move rapidly down the profile, especially in sandy soils that have much larger air pores. Herbicide moving with this initial rainfall will move further than applications where the same herbicide was applied to a 'full profile' at application, where subsequent rainfall will not penetrate as far. This occurs with all herbicides; however individual herbicide differences also need to be understood.

The ability of a herbicide to wash off stubble and how far it will move with and after the initial rainfall, depends on both the herbicide solubility and its propensity to bind to soil and organic matter. Both are important.

More information can be found [here](#).

# PADDOCK PRACTICES

## Assessing fertiliser profitability

- Fertiliser cost and fertiliser profitability are different. Fertiliser cost is obvious; fertiliser profitability is rarely assessed.
- Fertiliser response curves are needed to calculate fertiliser profitability.
- More efficient fertiliser use results in more profit and a lower carbon intensity of grain.

With fertiliser prices climbing, many growers are taking a hard look at their fertiliser expenditure. There is a lot of discussion about tightening margins and cutting rates, yet little focus on the core issue of fertiliser profitability. Given how much is spent on fertiliser each year, it makes sense to know if this annual investment is cash flow positive.

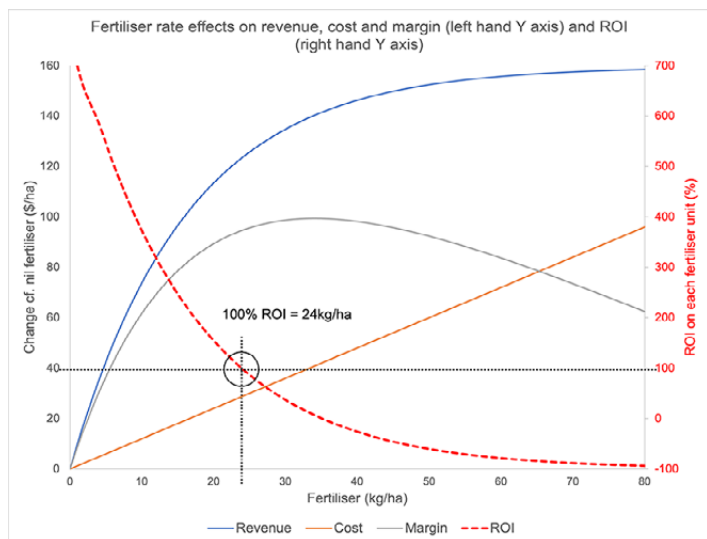
In budgets and profit and loss (P&L) statements, fertiliser is typically the biggest cost, yet its return on investment (ROI) is rarely measured. Metrics for fertiliser profitability are rarely called upon when gauging cropping profitability. A profitable operation does not necessarily mean fertiliser applications are also profitable. Inefficient and unprofitable fertiliser use can be concealed by good seasonal conditions, management, and grain prices.

Cutting budgeted fertiliser expenditure when fertiliser prices increase, with no consequential change to budgeted revenue, highlights a need for a closer look at fertiliser profitability. It requires a focus on how effective each unit of fertiliser is, rather than on the total fertiliser cost.

### Gauging fertiliser profitability

Assessing fertiliser profitability needs yield response data for each incremental unit of fertiliser. This comes from a fertiliser response curve, generated from at least four fertiliser rates including a nil rate. When a crop is responsive to fertiliser, there are diminishing marginal returns as fertiliser rate increases. The first dollar invested gives the biggest ROI then ROI gradually diminishes until there is not enough justification to invest more.

Many growers aim for a 100% return on their fertiliser investment - spending \$1 to get \$2 back, making \$1 margin or profit for \$1 cost. In Figure 1, if the aim is at least 100%



■ Figure 1. Fertiliser rate effects on revenue, cost and margin (left hand Y axis) and ROI (right hand Y axis).

ROI, investing less than 24 kg/ha would mean yield and margin increases are not realised. Applying more than 24 kg/ha means a lower ROI compared to investing it elsewhere.

While such precise application of fertiliser rates is impossible in practice, an understanding of fertiliser responsiveness can shift practical rates to substantially improve returns. For instance, in Figure 1:

- applying 20 - 30 kg/ha would be a good result.
- applying an extra 10 kg/ha (30 - 40 kg/ha) would represent additional cost and a poor rate of return on it.
- using 70 kg/ha to get close to maximising yield would mean outlaying an extra \$48/ha (compared to using 30 kg/ha), a \$25/ha reduction in margin and negative rates of return on each kg applied from 35 to 70 kg/ha.

Sometimes fertiliser profitability is roughly gauged by looking at yields from a higher fertiliser rate strip in a paddock. If the yield in the strip is the same as that around it, the fertiliser rate in the paddock is too high, but we don't know by how much.

If there is more yield in the higher rate strip, the paddock rate is insufficient. But again, we don't know by how much. A basic economic analysis (revenue - cost) that ignores diminishing returns cannot determine the optimum fertiliser rate and can make the whole step up in fertiliser rate appear more profitable than it is.

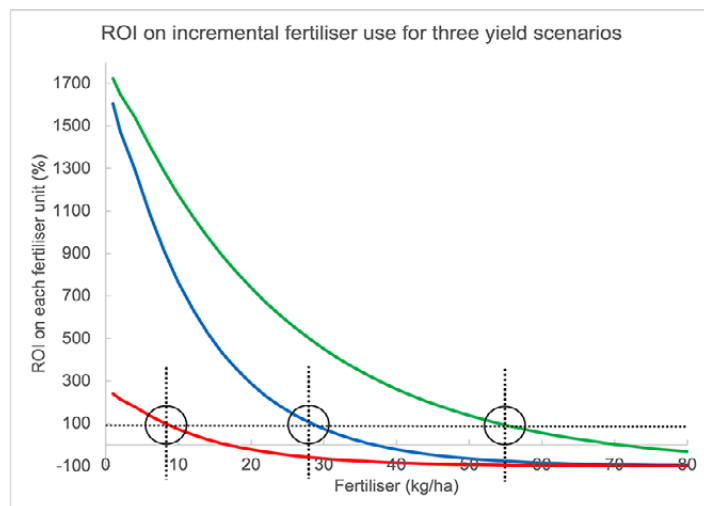
### Comparing response curves

Fertiliser response and ROI curves are used to gauge the fertiliser rate that corresponds with the minimum acceptable ROI for your situation. Figure 2 presents three scenarios with the same maximum yield but different response curves. The green scenario responds to most fertiliser; 100% ROI is at 54 kg/ha. In the blue scenario, 100% ROI is at 28 kg/ha. The red scenario is largely unresponsive; 100% ROI is 8 kg/ha and fertiliser is unprofitable above 16 kg/ha.

### ROI on total fertiliser spend vs incremental fertiliser spend

The following data from a WA nitrogen (N) trial compares two ways of assessing fertiliser ROI. The first is the ROI on each incremental unit of N (as used in Figures 1 and 2

■ Continued page 19



■ Figure 2. The associated ROI on fertiliser for three different yield scenarios.

# Paddock Practices

# Assessing fertiliser profitability

■ From page 18

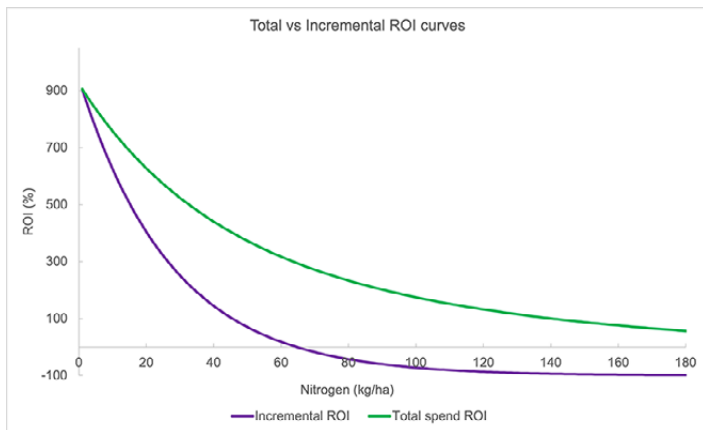
above). The second is the ROI of the total spend at each N rate, calculated as:

$$\text{ROI at each nitrogen rate} = \frac{\text{margin change compared to nil}}{\text{total nitrogen cost}} \times 100$$

Using this method, every N rate appears profitable (Table 1, final column). But when the profitability of each incremental N rate is examined, only 25 kg/ha and 50 kg/ha are profitable. Using the incremental ROI curve in Figure 3, fertiliser reaches break-even at 65 kg/ha.

Table 1. Comparison of incremental ROI% and total spend ROI% at four N rates.

N rate (kg/ha)	N Cost increase cf.nil (\$/ha)	Revenue increase cf.nil (\$/ha)	Margin change cf.nil (\$/ha)	ROI% incremental	ROI% total spend
25	50	337	287	321	574
50	100	473	373	70	373
75	150	528	378	-31	252
100	200	550	350	-72	175



■ Figure 3. Total fertiliser spend ROI vs incremental ROI.

## Guide to likely fertiliser profitability

### Advice

Like farmers, most advisers have enough experience to have some gut feel for where fertiliser rates can go up or down.

If your adviser is telling you to apply fertiliser for maintenance, replacement, insurance or the longer term, there is a good chance they think your fertiliser investment will not be cash flow positive this year.

### Soil test

Soil tests are useful to gauge paddock nutrient stocks and potential nutrient deficits. They aren't always accurate at predicting if the sampled site is responsive to fertiliser and are difficult to extrapolate beyond the sampled site. Fertiliser rates derived from soil tests are probably a guide at best. Some soil test advisory systems have nutrient response curves built into them which illustrate diminishing returns and can help assess the riskiness of higher rates.

### Adjust fertiliser rates

Ranking how responsive your paddocks, and even parts of paddocks, are to fertiliser (based on factors like soil type, production capacity, soil test results) is a good starting point

for adjusting rates. Start with a basic ranking system such as:

- very responsive (less risky to keep fertiliser rates high)
- moderately responsive (fertiliser investments somewhat risky)
- non-responsive (use nil or lower rate of fertiliser)
- remembering that fertiliser responsiveness of a paddock is not the same as its grain productiveness. If you cannot rate your paddocks for fertiliser responsiveness and profitability, it is an indicator you need to start measuring and critically thinking about fertiliser responsiveness.

### Measure and calculate it yourself

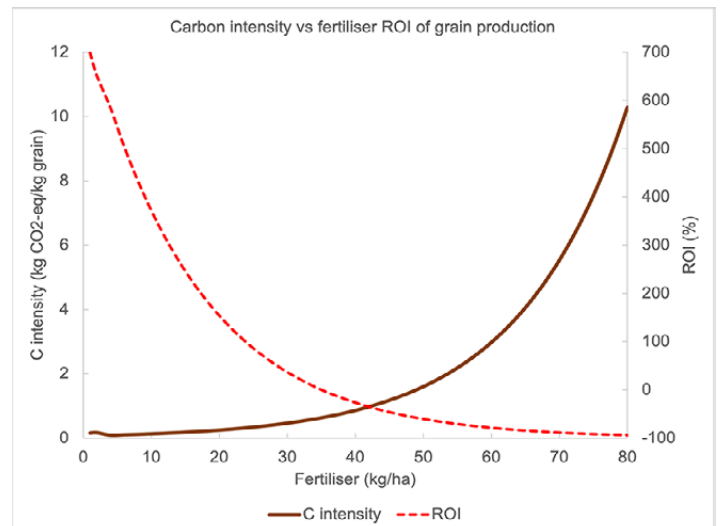
Using the variable rate application capacity of your machinery, apply at least four fertiliser rates, including a nil, and yield map the results. Generate a response curve from the results and calculate the incremental ROI. With a few years of data you will be able to gauge whether there is no response to fertiliser, big responses, or somewhere in the middle. You will also have your own metrics around the riskiness of your fertiliser investments across a range of seasons.

### Lower carbon emissions through better fertiliser use

While profitable fertiliser use is the objective of most farmers, achieving it also has positive environmental effects. Fertiliser, especially nitrogen fertiliser, is a big contributor to the overall emissions from grain production. High fertiliser rates that produce small amounts of grain per unit of fertiliser have an unnecessarily high carbon footprint.

Figure 4 shows the ROI and carbon intensity of incremental units of fertiliser. Carbon intensity is the amount of carbon required to produce one kilogram of grain. As ROI on fertiliser use decreases, carbon intensity increases. Each unit of fertiliser has the same carbon cost. When less grain is produced as fertiliser rates increase, the overall carbon intensity of the grain increases. Using the economic optimal amount of fertiliser reduces the carbon intensity of grain. Or put another way, doing the right thing by your pocket also does the right thing by the environment.

– Alisa Bryce & Wayne Pluske



■ Figure 4. ROI of incremental N applications compared to their CO<sub>2</sub>-eq intensity for grain production (based on 4 kg CO<sub>2</sub>-eq/kg fertiliser).

Quiz courtesy of Businessballs.com



1. Who built the Roman wall which divided England and Scotland?
2. Mary of Teck was the wife of which British monarch?
3. In Greek mythology, Aeolus was the ruler of which weather feature?
4. In which country was the ballet dancer Carlos Acosta born? Cuba, Haiti, France, Trinidad & Tobago
5. Who was the first unseeded tennis player to win the Wimbledon Men's Finals?
6. David Evans is the real name of which Irish musician?
7. The Southern Tropic, the most southerly latitude on Earth at which the Sun can be seen directly overhead, is also known by what name?
8. What is the proper name of the Collarbone? Scapula, Clavicale, Humerus, Ulna
9. Who had hits in the 1950s with Teenage Heaven and C'mon Everybody? Buddy Holly, Billy Ward, Jerry Lee Lewis, Eddie Cochran
10. What colour is the cross on the national flag of Switzerland?
11. Which singer took "My All" to No.1 in 1998? Mariah Carey, Celine Dion, Madonna,

- Britney Spears
12. Which one of these is not considered one of the "Gas Giants"? Uranus, Mars, Saturn, Jupiter
  13. What is the name of the moaning ghost in the Harry Potter novels?
  14. Who was often billed as Little Miss Sharecropper? LeVern Baker, Patti Page, Ruth Brown, Big Mama Thornton
  15. All Fools Day falls on the 1st of which month?
  16. Earth, Ceramic, Gas and Masonry are all types of what?
  17. Interdonato, Feminelle Ovale and Eureka are all types of what? Peach, Lemon, Orange, Lime
  18. Honeydew is a variety of what fruit/vegetable? Melon, Pear, Grape, Peach
  19. Who was having "Sweet Dreams" in 2010? Taylor Swift, Beyonce, Nicky Minaj, Carrie Underwood
  20. In which play does the famous "All the world's a stage" quote originate? As You Like It, Othello, All's Well That Ends Well, Romeo and Juliet
  21. What is a female antelope called?
  22. In what year was the San Francisco Ballet founded? 1937, 1933, 1935, 1931
  23. 'The Monday Club' was established in 1961 by Tory MPs in reaction to which British Prime Minister's 'Winds of Change' speech?
  24. How many pairs of True Ribs do humans have? 21, 7, 3, 14
  25. In the sport of fencing, what is the name of a bladework manoeuvre intended to deflect or block an incoming attack?
  26. Franz Kline was mainly associated with which artistic movement? Cubism, Mannerism, Abstract Expressionism, Dadaism
  27. Rigatoni is what type of foodstuff?
  28. Wilson Phillips had how many No.1 songs in 1990? 4, 2, 3, 1
  29. In 1975, Junko Tabei became the first woman to reach the summit of which

- mountain?
30. Which of these the correct title of a 2004 LL Cool J hit? Headpsprung, Heelsprung, Kneesprung, Heartsprung
  31. Twenty Flight Rock from the Movie "The Girl Cant Help It" marked which singers breakthrough? Billy Ward, Jerry Lee Lewis, Buddy Holly, Eddie Cochran
  32. What kind of creature is Rango in the 2011 film of the same name? Iguana, Chameleon, Tortoise, Tiger
  33. The part of the fairway just in front of the green is usually named after which kitchen item? Bench, Apron, Ladel, Kettle
  34. In which UK town is Priory Railway Station?
  35. Late US professional boxer Walker Smith Jr was better known by what name?
  36. Which branch of the British military did fictional character James Bond serve in?
  37. The designer of the Sydney Opera house was born in which European country?
  38. What was the name of the supertanker that ran aground between Land's End and the Scilly Isles in March 1967?
  39. What is the most common blood type? A, , AB, O
  40. The famous 'Man in the Iron Mask' died in which prison in 1703?
  41. Francois Fillon was appointed Prime minister of which country in May 2007?
  42. The Blisworth Canal Tunnel is in which English county?
  43. Who legally adopted a symbol to replace his name in 1993? Prince, Elton John, Vanilla Ice, Michael Jackson
  44. Who is the narrator on the UK television show The Only Way Is Essex?
  45. Which of these Elvis Songs was a number 1 BEFORE the others? Return to Sender, Its Now or Never, Suspicious Minds, Wooden Heart
  46. The state of Baja California is in which country?
  47. What is the name of the chief muscle used in breathing? Node, Diaphragm, Thorax, Abdomen
  48. What are the two inferior planets in our solar system?
  49. King Louie, Akela and Ziggy are all characters in which Disney film?
  50. Which words are inscribed on the US Purple Heart medal?

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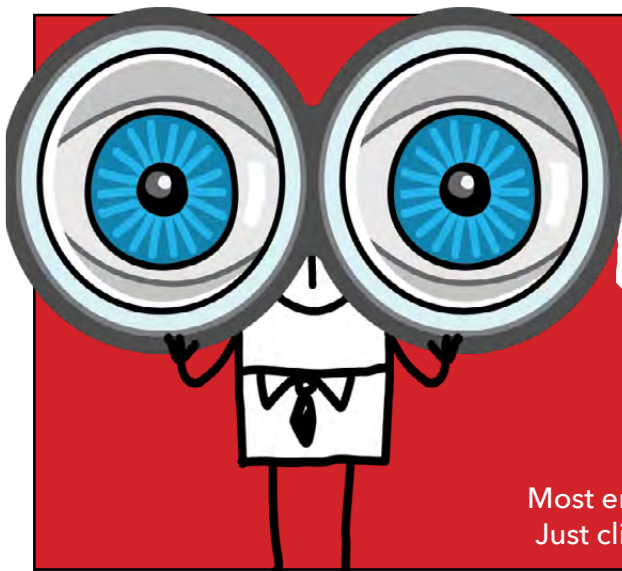
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ANSWERS: 1. Hadrian; 2. George V; 3. The winds; 4. Cuba; 5. Boris Becker; 6. The Edge; 7. The Tropic of Capricorn; 8. Clavicale; 9. Eddie Cochran; 10. White; 11. Mariah Carey; 12. Mars; 13. Myrtle; 14. LeVern Baker; 15. April; 16. Oven; 17. Lemon; 18. Melon; 19. Beyonce; 20. As You Like It; 21. Doe; 22. 1933; 23. Harold Macmillan; 24. 7; 25. Parry; 26. Abstract Expressionism; 27. Pasta; 28. 2; 29. Mount Everest; 30. Headpsprung; 31. Eddie Cochran; 32. Chameleon; 33. Apron; 34. Dover; 35. Sugar Ray Robinson; 36. Royal Navy; 37. Denmark (Jorn Utzon); 38. Torrey Canyon; 39. O; 40. The Bastille; 41. France; 42. Northamptonshire; 43. Prince; 44. Denise van Outen; 45. Its Now or Never; 46. Mexico; 47. Diaphragm; 48. Mercury and Venus; 49. The Jungle Book; 50. For Military Merit;



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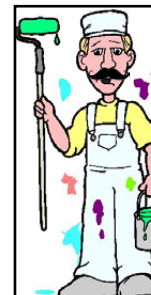
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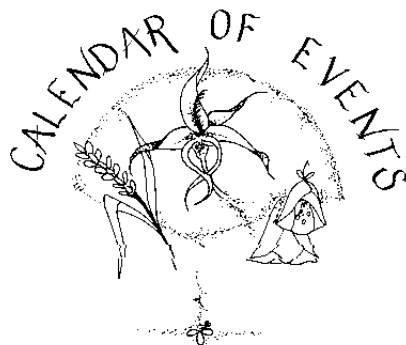


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## UPCOMING EVENTS

### April

- 7 FBCC General Meeting, 10-11am
- 8 Tech Time: ISO and Android-What is What? 2-3pm, Ravensthorpe CRC
- 8 Club Merlot
- 9-25 School Holidays
- 10 The Box-Escape Room, Hopetoun CRC
- 11 Easter Storytime in the Park (aged 5 and under), 10-11am, Jim McCulloch Park
- 11 The Box-Escape Room, Hopetoun CRC
- 12 The Box-Escape Room, Hopetoun CRC
- 12 Youth Week-Escape & Make, 2-5pm, Hopetoun CRC
- 13 Easter Rhyme Time, 10-11am, Ravensthorpe CRC
- 13 The Box-Escape Room, Hopetoun CRC
- 13 Youth Week-Escape & Make, 2-5pm, Hopetoun CRC
- 15 Good Friday
- 15 Car Boot Sale, 9am-2pm, Hopetoun Everett Country Golf Club
- 15 Monsterball Fun sponsored by IGA, 9am-2pm, Hopetoun Everett Country Golf Club
- 17 Easter Sunday
- 18 Easter Monday
- 19 CSI Day for kids aged 6 and over, 10am-2pm
- 19 Ravensthorpe Shire Ordinary Council Meeting, 6-7pm
- 20 Roller Skating, 3.15-4.45pm, Ravensthorpe Entertainment Centre & Sporting Complex
- 22 Tech Time: Scams 101-How to Spot a Scam, 2-3pm, Ravensthorpe CRC
- 25 ANZAC Day

### May

- 1 Hopetoun Local Markets
- 4 Roller Skating, 3.15-4.45pm, Ravensthorpe Entertainment Centre & Sporting Complex
- 9 RDHS P&C General Meeting, 7.15-8.15pm
- 13 Mental Health First Aid Course-Ravensthorpe, 9am-4pm, Ravensthorpe Community Centre-Red Room
- 15 Magical Mystery History Tour, leaves Museum 9am. Booking at CRC necessary'

For contributions to the Calendar of Events email the details to [contributions@cospirit.net](mailto:contributions@cospirit.net)

## REGULAR EVENTS

### HOPETOUN

**BOOTS COOTING** Fridays 1.30 til 3.30 at Mary Ann Haven, Veal Street Hopetoun please Phone Rosa 0428 383 034 or Trix 9838 3378.

**BOWLS** Winter Season Wednesday 1pm Mixed Social. Friday 4pm Roll up and fun. Sunday 1pm Mixed Social. Everybody welcome to attend. These events are played weather permitting.

**CRAFT** Mondays from 1pm at Mary Ann Haven, all welcome.

**CRC, Library & Visitor Centre** Open Monday to Friday 9am to 4pm. Committee Meetings bi-monthly, ask at CRC.

**CWA** 2nd Monday 1.30pm at Centre

**CWA SHOP** Saturdays 8.30 to 11.30. Library, secondhand goods, plants, fresh vegetables, fruit, eggs, cakes and pies, honey, jams, and relishes, Asian food.

**FIRE BRIGADE TRAINING** First Sunday of each month from 15:00 to 18:00 unless the Sunday falls on a public holiday then it will be the 2nd Sunday at Emergency Services Building, Veal St Hopetoun.

**GOLF** Saturday Ladies and Men's Golf 18 holes - Winter season names in by 11.30 Tee Off 12 noon, - Summer Season names in by 12 noon Tee Off 12.30. Thursday Scroungers Ladies and Men's Golf 9 or 12 holes depending on the weather, names in by 1.15 Tee Off 1.30. Visitors and Learners are always welcome.

**HACC HEALTH SERVICE** Day Centre Program, Tuesdays, alternating weekly between Hopetoun and Ravensthorpe. Contact HACC for details.

**HOPETOUN LOCAL MARKETS** first Sunday of each month except June, July and August when the markets go into recess for the winter. Ray White Real Estate outside area at 9am to 1pm. January markets will also be the first Sunday of the month. Please contact Robyn Cockram 0429 925 569 or cockram36@gmail.com for more details

**HOPETOUN PROGRESS ASSOCIATION** Office open Tuesdays 9am-12pm. Please call 9838 3363 anytime to leave us a message or email [hprogress@westnet.com.au](mailto:hprogress@westnet.com.au)

**LITTLE BEAT-BOP** Hopetoun Community Centre, rear foyer, Mondays 9.15-9.45am, for School Term. Registrations required. Tel 9838 3062 or [www.hopetounwa.com](http://www.hopetounwa.com)

**MACHINING GROUP** Thursdays phone Wilma 9838 3098 or Mary 9838 3243.

**MEN IN SHEDS** Tamar St Tues & Thurs 8.30am-12, 1-3pm and Sat 8.30am-12pm. All men welcome contact Darryl Quinn 0428 442 517.

**MEN'S STAY ON YOUR FEET** Tuesday and Thursday, 9-10am at Men's Shed, Tamar St.

**OLD BASTARDS CLUB** Men only BBQ, Fridays. Contact Geoff Earl 0418 905 555 for details.

**POOL COMPETITION/DARTS** Wednesdays 7.30pm Port Hotel.

**POOL COMPETITION** Wednesday 7pm Wavecrest Bar and Bistro.

**QUALUP CHOIR** Mondays 3pm Mary Ann Haven Phone 0447 385 049

**RHYME TIME** Every Thursday 9.15am (except school and public holidays) at Hopetoun Public Library (inside Hopetoun CRC). Free stories, songs and Rhymes for children under 2.

**SEA SEARCH AND RESCUE** Monthly training at

Emergency Services Building, as indicated by regular signage on Veal St.

**SENIOR CITIZENS** Thursday 1.30 pm. Meetings 1st Thursday every second month from June, 10 am at Mary Ann Haven.

**SOUTHERN SCRIBES** Fourth Saturday 1pm, phone 9838 3472.

**STAY ON YOUR FEET** Tuesdays & Fridays 9am-10am Mary Ann Haven.

**STORYTIME** Every Monday 10am (except school and public holidays) at Hopetoun Public Library (inside Hopetoun CRC) Free stories, songs, rhymes and craft. Suitable 0-5y.

**YOGA** Hopetoun Progress Assoc Are running weekly yoga classes starting on July 29th. For more information call Rachael on 0401 272 585.

### MUNGLINUP

**GOLF** Ladies Golf: Wednesday by 8.45am Men's Golf: Saturdays by 11.30am.

### RAVENSTHORPE

**GOLF** April- October Ladies Golf: Wednesday names in by 9am Men's Golf: Saturday names in by 12pm

**GYM** membership available. Contact Ravensthorpe Shire 9839 0000.

**HAND GUN CLUB** Every second Sunday 9am Contact Trina 0437 090 303.

**HOSPITAL AUXILIARY** meets every second month on the second Tuesday in the Red Room of the RCC. Contact person, Rae Guest on 0429 380 045.

**MUSEUM/INFORMATION CENTRE** Open 10 am to 4 pm Monday to Friday or by appointment 9838 1583.

**OP SHOP** trading 10am to 1pm Tuesdays to Saturdays.

**RAVENSTHORPE BASKETBALL** For more information contact Ethan Clarke 0452 261 717.

**RAVENSTHORPE BOWLING CLUB** Every Saturday from September-May. Both men and women-names in at bowling club by 12.45pm. We are a small social club with new and visiting members especially welcome. We can supply bowls if needed. Contact 9838 1015 for more info.

**RAVENSTHORPE PLAYGROUP AND MOTHERS' GROUP** Tuesdays from 9:30am at the Ravensthorpe School during the term, starting in 2022. Please bring a piece of fruit to share.

**STATE EMERGENCY SERVICE** meets at 7.30 pm on second and fourth Wednesday of month at SES HQ, Morgan St.

**STAY ON YOUR FEET EXERCISES** exercises at Town Hall, Fridays 10-11am. New members welcome.

**COMMUNITY RESOURCE CENTRE & LIBRARY** Open all day from 9am-4pm Monday to Friday.

**TAI CHI** meet at the Ravensthorpe Town Hall every Wednesday Morning 9.30 to 10.30am. Any age group is welcome. Contact Jessie Fairhead 0427 718 803.

**YOGA** donation-based community yoga classes on Tuesday nights in Ravensthorpe. For more information contact Blazia 0487 990 609.

If you know of any changes that are required to REGULAR EVENTS, please ensure you notify us at [contributions@cospirit.net](mailto:contributions@cospirit.net)

## CHURCH NOTICES

### ANGLICAN CHURCH

St Andrews Ravensthorpe service on the first and third Sunday of the month at 11am.  
Peter the Fisherman, Hopetoun service every Sunday at 9am followed by morning tea.  
Enquiries Kevin and Lyn Hosking, 9838 3130.

### CATHOLIC CHURCH

Saturday before 1st Sun of the Month Hopetoun 6pm  
Saturday before 3rd Sun of the month Hopetoun 6pm  
1st Sunday, Ravensthorpe, 8.30am  
3rd Sunday, Ravensthorpe, 8.30 am  
For enquiries please call Fr A Chukwu 0470 439 768.

### RAVENSTHORPE CHRISTIAN FELLOWSHIP

Meeting on 2nd Sunday's for a Worship Service and on the 3rd and 4th Sunday's for Bible Study. At 2.30pm at the church on corner of Carlisle and Kingsmill Streets.  
For enquiries contact Rob Lloyde 9838 1153 or 0427 381 153 or Ron Ross 9838 1188 or 0429 381 188

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**Ravensthorpe Hospital** ..... 9838 2211  
**State Emergency Service** ..... 132 500

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# Sibling rivalry brothers battle it out

## Hopetoun Bowls

Wednesday March 23rd, 14 players played Social Bowls Pairs and Triples.

March 30th, Social Bowls were played with 15 players.

April 3rd with 12 players playing mixed Triples.

On Saturday and Sunday March 26th and 27th, the men played their Championship Singles with eight men playing in two divisions of four.

The winner of one division winning all his games was Lance Goddard with +18, and the other his brother John last year's winner winning all his games +14.

The final was played with a mixture of beautiful drawn shots and great drives by both players with John beating Lance 25-15.

A great weekend of bowls was played by all the men—a joy to watch. Thankyou to the Markers Leonie McNamara, Coral Grant, Bob Sounis, Peter Crisp, Pat Kennedy and Dessie Barr.

The AGM of the Club was held on Saturday April 2nd with 19 Members present.

President Lance Goddard gave a verbal report of the past year. Treasurer Bub McGlenn read the Financial Report.

The following Committee



John.

were Elected—President Lance, Treasurer Bub, Vice President Kevin Herbert, Ladies President Pam Cousins, Secretary Coral Grant, Men's Captain Danny Carter, Vice Captain Alec Woods, Scroungers Captain Bill Pike, Ladies Captain Leonie McNamara, Vice Captain Margot Hawkins, Joint Bar Managers Lance and Darryl Quinn, helpers Donna and Danny and Coral. Grounds Committee Terry Lord, Alec and Danny, Caterers Audrey Dixon, Trix Boyd and Coral.

Many thanks to members who stood up to take an Office and for Herbie for acting as Returning Officer.



Lance and John.

Membership and green fees and bar prices are to stay the same.

Thank you to past Secretary Michelle Stevens on her work on the updated Honour Board. Trix thanked Coral for stepping in to run the Catering when she was indisposed.

The Presentation Dinner to be decided on at a later

date, at possibly an outside venue.

The Club Person was voted on and was a joint winner with Coral and Terry—well done.

Winter bowls will be played on Wednesday and Sunday, weather permitting.

— Pam Cousins  
Ladies President

### FORTHCOMING EVENTS:

- April 10th—Men's League Championships at Condingup
- May 4th-6th Esperance Ladies May Carnival
- May 10th-12th—Men's Super Fours Esperance

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