

More lambs, less weeds in sheep containment systems

■ By Cindy Benjamin, WeedSmart

WHAT started as a drought mitigation measure for Horsham mixed-enterprise farmers Sam and Emily Eagle in 2014 has proven to be a valuable long-term livestock production and weed control tool.

Livestock containment areas allow the Eagles to rest their pastures and fodder crops, efficiently use a variety of feeds and restrict the spread of weed seeds. On top of this they have also seen benefits in growth rates and lambing percentages.

Sam says the six or seven hectares they have available for containment was not expensive to build and has made it much easier to manage their livestock and cropping enterprises.

"I'd definitely recommend building containment areas for sheep," he says. "It is such a simple concept that has so many benefits. They really help to manage ground cover on your pastures and cropping paddocks, and in dry times they make feeding out much less stressful. In the last drought we had up to 6500 sheep in containment, including lambs, and I could feed them all in less than three hours, and didn't have to feed every day."

Multi-purpose containment areas

Sam and Emily use the containment areas for several purposes throughout the year. Although they generally keep their pasture and cropping paddocks separate, the sheep play an important role in weed management across the whole farm.

"The containment areas allow us to bring in feed from outside if necessary and feed out screenings from our own grain, being confident that any weed seeds that come with that feed won't be spread around the farm," says Sam. "It is easy to manage any weeds that germinate in such a defined and small area of the farm."

"When we buy in sheep we shear them as soon as they arrive to remove any risk of them introducing weeds like Bathurst burr," he says. "We use the containment areas to avoid overgrazing pastures so the sheep eat the weeds like barley grass as well as



Horsham producer Sam Eagle uses every opportunity to maximise the synergies within a mixed farming operation.

the more palatable species. They also provide an effective double knock effect for weeds that have herbicide resistance."

The Eagles cut weedy paddocks for hay or silage and feed it out in the containment areas where they can control any weeds that germinate. Sam says above-ground pit silage has been very cost effective at around \$10 a cubic metre to cut the silage and store it under a tarp before feeding out in the containment paddocks.

"Silage is a very good weed control tactic," he says. "You cut it early, so you are stopping weed seed set, and after three days of good weather you can spray out the paddock for a spray fallow."

Unacceptable yield penalty

The Eagles prefer to either graze a crop fully or grow it for grain, having found that the 'grain and graze' tactic for dual



Livestock containment paddocks boost productivity while stopping the spread of herbicide resistant weed seeds.



Place the water and feed sources at opposite ends of each containment yard to keep the water clean for longer.

purpose crops had an unacceptable yield penalty and opened up the canopy to allow weeds to grow through and compete in the grain phase.

They have found Moby barley plus clover to be the best cover crop to graze and then spray out. Oats and pasture are both cut either for hay or silage to conserve fodder and remove weed seeds.

“In the cropping paddocks sheep will eat most of the weeds that evolve herbicide resistance, like wild radish, annual ryegrass, fleabane and whip thistle. They also generate cash flow from cover crops and from grain crops that don’t go through to harvest due to drought, flood, weeds or frost,” says Sam. “Over summer the sheep reduce our herbicide costs and reduce the stubble load, which makes sowing easier. Once the feed supply runs out, we put the sheep into containment until they start to lamb. This allows the pastures and crops to get ahead and gives us good feed to put the ewes into for lambing.”

Sheep and CTF systems

“The sheep can make inter-row sowing more difficult in our controlled traffic farming (CTF) system so we have to be careful to cut the stubble 300 mm or less above ground level so the stalks don’t lodge across the inter-row as the sheep graze the stubbles,” he says.

Having used narrow windrow burning as their harvest weed seed control tactic for six years, Sam and Emily used a contract harvester with an impact mill for their harvester for the 2018 season. They were pleased with the job the mill did and are looking to purchase one of their own once the technology matures a little more. They use crop-topping in pulses and windrowing in canola to stop weed seed set and also spray herbicide under the cutter bar in canola.

“We test weeds for herbicide resistance so we know what still works and plan out a diverse herbicide program with multiple chemical groups used in a broad crop rotation,” says Sam.

Other than the grazing and weed management benefits, Sam and Emily have also found numerous productivity benefits for their 2500-strong merino flock.

Using the containment yards for joining has seen increased conception rates and after preg-testing their ewes, Sam and Emily make separate mobs for the twins and singles so they can better manage the ewe’s nutrition while in containment. Once the lambs are weaned and are brought into containment their growth and feed utilisation rates are higher than when paddock grazed, meaning the returns on feed inputs are higher and the



Grazing cover crops and failed grain crops generates cash flow and helps manage weeds. Sam keeps an ungrazed reference area in dual purpose crops so he can remove grazing pressure at the right time if he wants to let the crop go through to grain.

Eagles are able to either turn off hoggets earlier or at a higher weight.

Building and using containment areas

Size and design – they can be any size, provided an allowance is made for two to five square metres per sheep (2000 to 5000 sheep per hectare). At the right stocking density the containment yards compact well and do not generate dust or strong odour. Place the food and water sources as far away from each other as possible in each containment yard – this helps keep the water troughs clean.

Water – sheep require six litres of water each per day and more in very hot weather. Flow is more important than pressure, so use thicker pipe (e.g. 30 to 50 mm) to supply the troughs.

Feeders – feed can be placed in self-feeders, feed troughs or on the ground.

Shade – think about shade when designing the containment areas and look for ways to provide as much shade as possible. Protect any established trees.

Feedstuffs – utilise a variety of feeds such as screenings, canola, hay, purchased grain and silage. Match the nutrient value of the feed with the class of animal you are feeding and supply any necessary mineral supplements. Get advice if you don’t have a good knowledge of animal nutrition.

Stock health – give sheep 6-in-1 vaccines and drench before putting a mob into containment.

Key benefits of containment areas

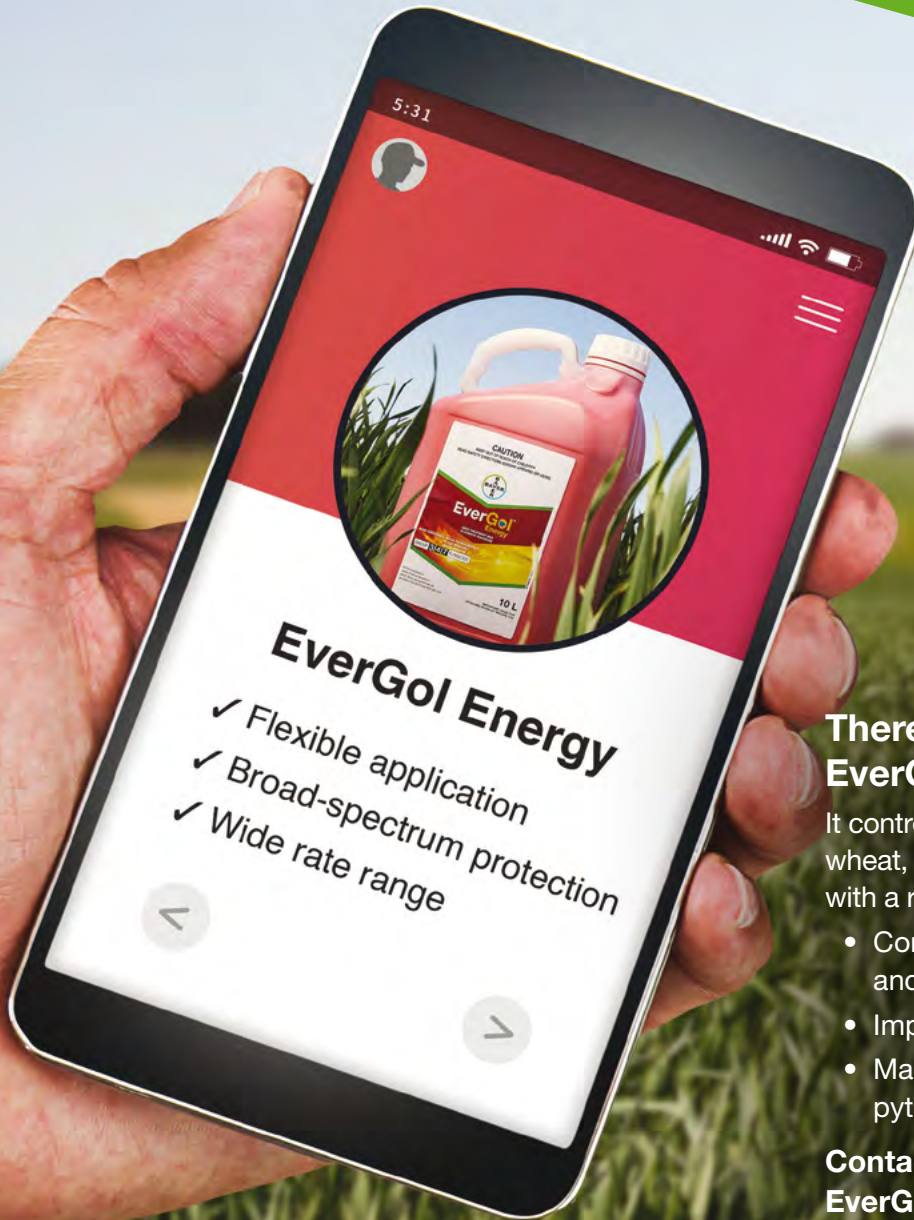
- Less feed wastage means feed costs are reduced and productivity is higher with more lambs produced (higher conception rate) and faster weight gain compared to paddock grazing.
- The containment paddocks can have a variety of uses including being a fire break, lamb feedlot, shearing holding yard and joining paddock. Move sheep out once lambing commences.
- Holding sheep in the containment paddocks allows the pastures and fodder crops to create a green wedge of feed before being grazed. They also provide a suitable place to hold sheep once the pastures and fodder crops have run out in summer, maintaining groundcover levels across the farm.
- Good for your mental health in drought conditions as you don’t have to drive around dry paddocks every day, feeding doesn’t take as long each day, ground cover is preserved across the farm and the sheep can be kept in good condition.

For more information about using livestock to manage weeds visit the WeedSmart website: www.weedsmart.org.au

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Exciting time to be in agriculture

By Melissa Pouliot

At a glance...

- Tara Hindson is a VicNoTill board member and farms with her family in the West Wimmera of Victoria.
- The main enterprises are 15,000 breeding ewes, cropping and centre pivot irrigation of pastures.
- Biological management includes composting, biological/nutrient foliar sprays and multi-species covers.

THE words grateful, excited, amazing and lucky sit comfortably amongst family farm, regenerative ag, compost, healthy soils, nutrients and fresh air in conversation with young farmer Tara Hindson from Victoria's West Wimmera.

As the fifth generation on the Hawkins family farm at Brippick, Wombelano and Patyah, Tara is keen to emphasise how grateful and lucky she is to be working alongside her father Peter Hawkins on the land Peter's grandfather first settled in the 1800s.

She's doing what she loves and can see a world of opportunity ahead.

"The things I love about farming are working outside and enjoying the fresh air while we produce products to help feed the world. It's such a great place to bring up family. I loved it as a child so want to be able to bring my children up in that same environment," Tara says.

Tara's refreshing honesty about where her family is at and where they would like to be with their farming system epitomises VicNoTill's philosophy of 'farmers helping farmers'.

They are only at the start of their regenerative journey and she's upfront that wanting to change, and being able to change, don't always align perfectly.

"Going from conventional farming to a more regenerative/biological system isn't always easy for a number of reasons. Change takes time and there is no overnight fix to rebuilding your soils to where you want them to be.

"Also, when everyone in the farm business is doing their research and trying to communicate what they've discovered to everyone involved, it's not easy to have that trust and confidence in introducing new processes. To change from putting fungicides out and having that insurance for your crops, to not putting them out and taking a risk can be difficult even if you are the one suggesting that change.

"We're definitely a long way from where we want to be, but we have made a start and know where we'd like to get to."

- The system is focussed on three broad areas:
- A livestock-dominated system with a focus on perennial and annual pastures;
 - Cropping the best country; and,
 - The use of biological management techniques such as compost, nutrition and biological foliar sprays.

Family business

In 2009 Tara and her husband Rob returned home to manage the cropping and sheep side of the enterprise with Peter and his partner Susan. Her grandparents Mac and Joyce are also involved in the farm business, although they are not as hands-on now.

Tara's brother James owns and runs a piggery as a separate enterprise on land adjoining Brippick.

They have 15,000 breeding ewes to produce



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Overview: VicNoTill is a leading voice in Australia for the use of no-till farming and regenerative agriculture systems. The farmer-led association started in 2002 after a small group of Victorian Wimmera farmers joined forces to discuss the benefits they were seeing using no-till farming techniques.

The group's success quickly spread and VicNoTill went from strength to strength as more farmers saw the benefits of no-till and zero-tillage farming. VicNoTill farmers are implementing soil health principles to build the robustness and resilience of their farming systems. They are continually exploring new ideas and innovations such as regenerative ag, holistic farming systems, soil biology, nutrition, and other techniques that improve soil health and the long-term future of farming.

VicNoTill prides itself on being a valuable education and mentoring resource for farmers across Australia and around the world. They are always looking for new members to join so if you'd like further information, please get in touch.

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Tara and Rob Hindson with daughters Isabelle and Winnie.