

RIGHT NOW IS THE PERFECT TIME TO DO HERBICIDE RESISTANCE TESTING

What is herbicide resistance?

Herbicide resistance is the inherited ability of an individual plant to survive and reproduce following exposure to a herbicide application that would kill a normal population of the same species. A weed population is defined as resistant when a herbicide that once controlled the population is no longer effective. The proportion of herbicide resistant individuals will rise due to selection pressure in situations where there is repeated use of the same herbicide or where one herbicide mode of action group is applied repeatedly.

Why test for herbicide resistance?

A resistance test is very useful with assessing the level of herbicide resistance in a particular weed population, it helps to develop chemical strategies and other weed control methods. This can save the unnecessary use of ineffective herbicides that are unable to kill the weeds in question; it will also optimise crop yield and provide essential information on in-crop and future weed management.



Pots of annual ryegrass tested for glyphosate resistance; susceptible (left) and strongly resistant (right). (Photo: Peter Boutsalis)

Herbicide susceptibility and resistance testing

Testing weeds for herbicide susceptibility and resistance can save growers thousands of dollars, making the investment of testing very worthwhile.

There are two main methods of testing:

- The Seed Test is done on weed seed samples, usually collected around harvest time and the results take a few months. The Seed Test requires the collection of ripe seed, which is planted out at the laboratory. After dormancy has been broken and the seedlings have started to grow they are tested for their response to herbicides.
- The Quick Test is done using live weed plant samples collected in-crop and provides the results within a few weeks. Plant samples are sent to the laboratory and are revived and planted into pots, then tested against the required herbicides.

Both tests are equally accurate. However the Quick Test cannot test for resistance of some pre-emergent herbicides, such as Trifluralin.

If you would like more information or some herbicide resistance testing done, contact our Agronomy staff.

SHEEP JOINING TIP LIST

With lamb marking behind us, joining will be rolling around again after harvest and when your lambing percentage numbers are fresh in your head, why not think about ways we can improve them! Getting your rams and ewes properly prepared for joining is not something that we often think about but there are little tweaks we can do increase our likelihood of reproductive success.

- Time your weaning so the ewes can recover if they need to or alternatively if they're too fat, leave those lambs on! Ideally ewes should be a BCS 3 at joining. Consider drafting skinny ewes off at weaning to graze your better pastures.
- Consider adding an injectable nutrient boost of Multimin (zinc, selenium, manganese), Vitamin ADE, and/or Vitamin B12, 4 weeks out from joining for ewes and 2-3 months out for rams. Injected nutrients are far better absorbed and utilized by the animal.
- Consider using "teasers" two weeks out from joining.
- Avoid joining ewes with full wool and within two weeks of shearing.
- Consider "short term flushing" your ewes with a hit of lupins (500g/head/day) for 1 week pre-joining to 1 week after rams-in (14 days total) briefly pushing them into a higher plane of nutrition to increase the number of multiple ovulations.
- For very high level managers, consider Ovastim as another option if joining young cross bred ewes out of season, but be prepared to scan and feed twin bearing ewes pre-lambing.
- Timing is everything, don't mess with your rams from 8 weeks out from joining, have them drenched, vaccinated, shorn and ready to go **now** in preparation for the action at the end of the year.



MULTIMIN[®] COPPER-FREE INJECTION
trace minerals for cattle and sheep

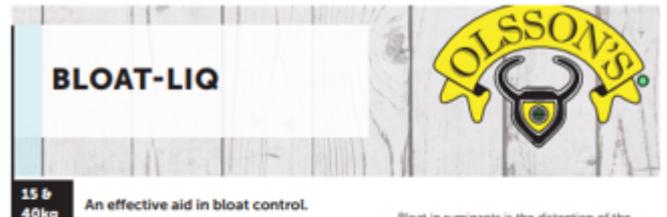
Three in one trace mineral injection to get your sheep and cattle performance ready

OLSSON'S STONE BLOCK & BLOAT-LIQ

Head into one of our stores today, we have all your nutritional needs covered, our blocks will keep your stock healthy and happy.

Are your wethers having problems with kidney stones from high levels of phosphorus from grain, excess sodium carbonate in the diet and reduced water intake. Well do we have a block for you....

Are your cattle gassy? Well when your cattle have an excessive accumulation of gas this causes bloat, so a gassy cow is a healthy cow. So we have the block for you to prevent the loss of your cattle from bloat.



20kg A salt block containing ammonium chloride, used to reduce the formation of phosphate bladder stones.

15 & 40kg An effective aid in bloat control.

TYPICAL ANALYSIS	
Ammonium Chloride	10g/kg
Salt (NaCl)	800g/kg
Calcium Carbonate	90g/kg
Molasses	100g/kg

TYPICAL ANALYSIS	
Bypass Protein Meal	2.8%
Total Protein Equivalents	1.0%
Molasses	67.5%
Salt (NaCl)	3.2%
Alcohol Ethoxylate	10.0%

FOR ANIMAL TREATMENT ONLY. THIS PRODUCT DOES NOT CONTAIN RESTRICTED ANIMAL MATERIAL.

MACRO INGREDIENTS
 Calcium (Ca) 2.3%
 Magnesium (Mg) 2.7%
 Phosphorus (P) 0.6%
 Sulphur (S) 0.1%

Active Ingredient:
 10% Alcohol Ethoxylate Teric 12A 23-1g/10g of block.

Bloat in ruminants is the distention of the rumen-reticulum, or paunch, with gas. This gas forms during rapid fermentation of the feed in the rumen. The gases that cause the distention are mainly carbon dioxide and methane. Distention is a tight ballooning of the underlying rumen from the ribs to the hip, most often seen on the left side of the animal.

The usual mechanism of "belching" and letting gas out through the animal's mouth has failed and so the gas accumulates. Distention can occur from pasture bloat and feedlot bloat.

Olsson's Bloat-Liq is a molasses-based, anti-foaming block (10% Alcohol Ethoxylate Teric 12A 23) designed to relieve the symptoms of this annual killer.

Bloat-Liq is rain resistant, easy to use and is one of the best value bloat products on the market.

APVMA approval no. 41900/15/0108



Olsson's Stone Block is a supplement for stock that are on diets predisposed to bladder stone formation. Bladder stones are usually only a problem in steers, when stones block the urethra and prevent urination. Factors that predispose stock to stone formation include the high phosphorus levels in grain, excess sodium bicarbonate in the diet (used to help prevent acidosis), and reduced water intake due to poor water quality. Vitamin A deficiency can also be a cause of bladder stones in cattle that have been on dry feed for prolonged periods.

DIRECTIONS FOR USE

Feeding Instructions:
 Use in accordance with the Olsson Free Choice System.

Sheep: 5-10g per head per day
Cattle: 50-100g per head per day

Intake is recommendation only. Higher intakes are normally the result of mineral deficiencies.

For use in cereal pasture with grain rations. Avoid contact with skin and eyes.

Storage Instructions:
 Store out of direct sunlight and under cover. Edible carton and packaging.

FOR ANIMAL TREATMENT ONLY. THIS PRODUCT DOES NOT CONTAIN RESTRICTED ANIMAL MATERIAL.

DIRECTIONS FOR USE

Feeding Instructions:
Cattle: 1 (15kg) block per 5 head

Blocks should be fed out 2 weeks prior to suspected start of bloat season & continued at this rate while season is prevalent.

Replace as consumed. Consumption can vary with severity of bloat forming chemicals in the pasture.

Avoid contact with skin and eyes.

Storage Instructions:
 Store out of direct sunlight and under cover. Edible carton and packaging.

BUSHMANS PROMOTION



Call **1800 008 888** or visit www.bushmantanks.com.au

*F&C on www.bushmantanks.com.au

Purchase a Bushmans Tank between September– November and receive an entry form to go into the draw to win a Ute!

Contact us to order your tank today!

Port Lincoln– 8682 2711
 Cummins– 8676 2003

BUSHNELL BINOCULARS

Time to keep an eye on those ewes and lambs.

Bushnell's binoculars deliver bright, clear imagery. The Prime features built-in lens caps that protect your investment and won't fall off. With its completely waterproof construction and EXO Barrier technology, they won't fog up in the most crucial moments. Pair that with the fully multi-coated lenses, brightness and colour are increased for a vivid viewing experience.

All Prime binoculars come with a belt-mountable soft case to protect your investment and make carrying effortless. Also in the box is a rear lens cap and a comfortable neck strap.

Come in and view the range in our Lincoln store.



NEW GARDENING PRODUCTS

ORBIT GARDEN HOSES



- Excellent kink resistance • UV protected • Supplied with tap fitting & hose end connector • Re-enforced webbing • Thick inner wall • Durable and flexible • Supplied ready to use

Available in: **12mm** in 15m & 30m
18mm in 18m & 30m

WIFI & BLUETOOTH CONTROLLERS



Keep even the smallest areas adequately watered with a Wifi or Bluetooth-enabled, battery-operated tap timer or controller.

Perfect ,durable indoor and outdoor wireless solutions for nurturing gardens, greenhouses, potted plants, flower beds, nurseries, and small lawn areas located in spaces without available in-ground irrigation.



SOCIAL MEDIA



ANCARE PROMOTION



"Just be true to yourself and don't do anything that doesn't feel right."

- Matt Preston