



## LICE - SHEEP

Sheep lice are a costly parasite that reduce fleece weights and downgrade wool quality. The key to lice management is to find them early and implement effective management practices to reduce their impact.

### Risky Situations/Cause of lice:

- **Poor bio-security on farm**
  - Lice are often introduced with newly purchased sheep or sheep that have been moved from another property. This can also include stock that have been on agistment.
  - Lice can also be introduced to your farm via lice infested sheep that have strayed from a neighbouring property.
- **Failed treatments**
  - Incorrect chemical application or dose rate.
  - Lice resistance to chemicals used for treatment.
  - Split shearing. Increases chance of re-infestation.
  - If not all sheep are shorn or treated e.g. missed mustering or lambs at foot.
- **Transfer:**
  - Between sheep: occurs more rapidly when sheep are in close contact (yarding, mustering) and when the surface of the wool is warm and shaded.
  - Through shearing equipment: moccasins need to be microwaved (for 5 minutes) or frozen to kill lice.

### Symptoms:

- **Look for lice**
  - Lice are 1-2mm long and have a red-brown head and pale or striped (in adults) body.
- **Rubbing**
  - Pulled wool; wool on fences.
  - Other causes of rubbing include itchmite, grass seeds, dermo, wool break and fleece shedding breeds will rub to remove their 'old' fleece

### Treatment:

- **Shearing**
  - Is very effective for significantly reducing lice infestations. Not only are lice directly removed (30-50%) but many die from exposure to the weather.
  - Lice numbers are lowest 30-60 days post-shearing.
- **Backliners**
  - Most effective when applied within 24hrs off-shears.
  - Weigh sheep & set dose rate to heaviest.

- Use the recommended applicator and calibrate to ensure the correct dose is applied.
- Most chemicals are knockdown only and do not provide ongoing protection against re-infestation.
- Bayer 'Avenge' kills all stages of louse life cycle and provides 28 days protection.
- **Plunge Dips**
  - Dip sheep 2-4 weeks after shearing (6 weeks max).
  - Ensure minimum swim length is at least 9m.
  - Each sheep's head should be dunked twice.
  - Constant replenishment of chemical is required to ensure effectiveness.
  - Recommended for eradication as the fleece is completely saturated with product.
- **Wool growth stage & Withholding Periods:**

	Trade Name	Meat WHP (days)	ESI (days)	Wool (days)
<b>Off shears</b>				
<b>Backliner</b>	<b>Avenge®</b>	21	63	180
	<b>Maverick®</b>	21	28	42
	<b>Eureka Gold®</b>	21	21	60
<b>Dip</b>	<b>Extinosad® Pour On</b>	14	21	Nil
	<b>Extinosad® Eliminator</b>	Nil	Nil	Nil
<b>Long wool</b>				
<b>Jetting</b>	<b>Blowfly &amp; Lice®</b>	7	7	42
	<b>Extinosad® Eliminator</b>	Nil	Nil	Nil
<b>Backliner</b>	<b>Extinosad® Pour On</b>	Nil	Nil	Nil

### Prevention & Management:

- **Stringent biosecurity measures**
  - Carefully check newly purchased or introduced sheep for lice before they leave the yards.
  - See 'Biosecurity- Sheep' Animal Production Update for further information
- **Speak to your neighbours.**
  - Develop an agreed plan for the possibility of stray sheep or plan for new fencing.
- **Visually check for lice to determine treatment.**
  - Especially before shearing (to treat post-shearing)

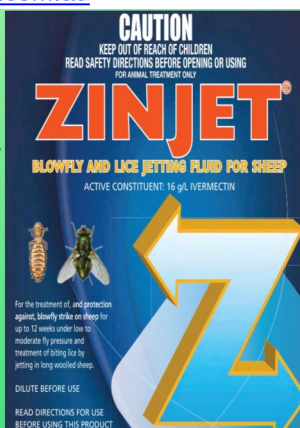
More information can be found at

[www.liceboss.com.au](http://www.liceboss.com.au)

### ZINJET BLOWFLY & LICE JETTING FLUID for SHEEP

For the treatment of, and protection against, blowfly strike on sheep for up to 12 weeks under low to moderate fly pressure and treatment of biting lice by jetting in long woolled sheep.

**Product type**  
Dip or Spray  
**Active ingredient**  
Ivermectin 16g/L  
**Pack sizes**  
5L  
**Pest type**  
Flies, Lice, Maggots



Town & Country Rural Supplies  
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# ANIMAL UPDATE

# PRODUCTION

## Extinosad Pour On

- Powerful knockdown chemistry that starts killing lice within hours of contact
- Unique mode of action that kills lice like no other, ideal for rotation programs
- No known field resistance, kills SP resistant strains of lice
- Maximum marketing flexibility with a zero (0) days withholding period for wool and an ESI of only 21 days when applied off-shears or to unshorn lambs



- Maximum management flexibility being able to be applied to sheep off-shears, with long wool or suckling lambs (unshorn)
- Water based, odourless formulation with a favourable safety profile that poses low risk to livestock, shearers, farm workers and the environment when used according to label instructions

## ULTRAVAC 5 IN 1

- For the prevention of enterotoxaemia (pulpy kidney disease), tetanus, black disease, malignant oedema (blackleg-like disease) and blackleg in cattle and sheep including swelled head in rams.
- Ultravac 5in1 is a breakthrough in 5in1 technology. Zoetis' unique ultra-filtration process creates a more pure vaccine that stimulates a targeted response by the immune system. This ensures rapid and effective protection against the dangerous clostridial diseases.
- Ultravac 5in1 represents a new generation of products. The ultra-filtration of the vaccine means that the recommended dose is 2mL for cattle and 1mL for sheep. This means less fridge space is required and fewer vaccine bottle changes are needed when vaccinating large numbers of stock.



## CLIK SPRAY ON

CLiK Spray-On is registered for the protection of sheep, either off-shears or with any length wool, against fly strike (caused by dicyclanil-susceptible strains of blowflies (*Lucilia cuprina*)) for 18 to 24 weeks. It is also registered for the protection of mulesing and marking wounds on sheep against fly strike (caused by dicyclanil-susceptible strains of blowflies (*Lucilia cuprina*)) during the wound healing process.



- CLiK offers the following key benefits:
- Season long protection against flystrike for 18-24 weeks on all breeds of sheep with any length wool
  - Potent insect growth regulator that breaks the life cycle of the blowfly before any damage occurs
  - Rain Lock formulation technology that enables CLiK to bind strongly to wool fibres to resist washout
  - Convenient ready to use spray on formulation

## AVOMEK DUEL 10L

### Dual action parasite control

For sheep producers in grazing areas where Barber's Pole Worm are active, AVOMEK DUEL offers dual action parasite control with the benefit of:

- Broad-spectrum control of all major roundworms, lungworm and liver fluke; and
- Sustained activity against closantel-susceptible Barber's Pole Worm

### Benefits include:

- 'High rate' closantel dose with enhanced absorption
- 6 weeks sustained protection against reinfection; and
- 6 weeks limitation of pasture contamination with faecal eggs of closantel-susceptible Barber's Pole Worm

### For the treatment and control of:

- Gastrointestinal Roundworms
- Liver Fluke
- Lungworm
- Nasal Bot
- Itch Mite



## THUNDERBIRD



## LIVESTOCK MANAGEMENT SYSTEMS

Offer valid from 1/9/19 - 25/10/19

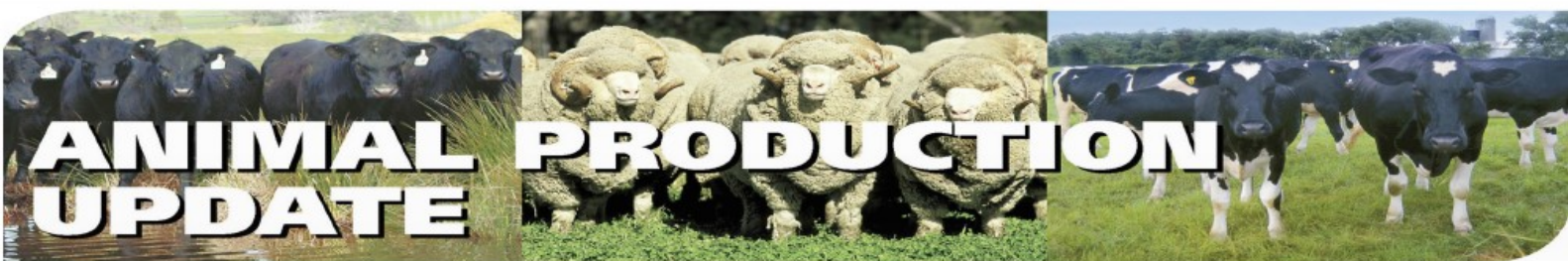
**BURSTING WITH VALUE**

## DATES TO REMEMBER

- TRUNKY CREEK WOOL & HORSE FESTIVAL  
12TH OCTOBER
- LIVESTOCK HANDLING & ASSESSMENT FIELD DAY  
12PM TO 3:30PM 18TH OCTOBER
- ROCKLEY RODEO  
19TH OCTOBER
- PASTURE WALK @ MANDURAMA  
9:30AM TO 11:30AM 22ND OCTOBER
- BATHURST FARMERS MARKETS  
26TH OCTOBER

### CALENDAR

				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31



## Molafos® 15 S Pasture Supplement

Molafos 15 S is a palatable supplement with 15% protein that is high in Molasses (Energy) with a low urea level and balanced minerals. It is slightly less palatable than Molafos 15.

### Molafos 15 S Uses

- ✓ A dry feed / drought supplement to grazing cattle, sheep and goats on mature pasture, stubble or forage crops.
- ✓ Fed as a production supplement starting early in a dry season while there is a good body of forage available.
- ✓ A supplement for backgrounding cattle to get stock onto feed sooner and as a post-weaning supplement with hay and or grain for calves and lambs.
- ✓ Can be medicated with Monensin, Lasalocid or Flavophospholipol to improve feed efficiency.
- ✓ Has the option of increased Phosphorus levels.

SUITABLE FOR SPECIES



SUITABLE FOR CATEGORIES: Breeder, Weaner, Maintenance, Grower, Production, Backgrounder

### Molafos 15 S Features

- Unique Molafos feed system. Excellent carrier of minerals, vitamins, supplements and medications.
- Economical with a balance of protein, energy and minerals.
- Ingredients are held in solution.
- Molasses based to supply sugars which stimulates appetite and improves urea utilisation.
- Flows at temperatures as low as  $-10^{\circ}\text{C}$ .
- Contains a blend of Inorganic and Organic Minerals for improved availability and rumen bacterial health.
- Rain safe.

### Directions for Use

- Pour into open troughs and allow cattle and sheep free access.
- Feed out 3 day's supply and do not refill until the 4th day.
- Once intake has stabilised feed out 7 day's supply and do not refill until the 8th day.
- Stock may need to be supplemented with salt (especially sheep) for 1 week to appease any salt craving.
- Do not feed to starving or thirsty stock.
- Locate feeding stations away from water to reduce intakes and encourage grazing out.

Intakes – These products can be fed directly to livestock at recommended feeding rates.

Weaners: 0.5 to 1 kilogram / head / day

Sheep and Goats: 100 to 300 grams / head / day

Adult Cattle: 1 to 2 kilograms / head / day

1 litre Molafos = 1.32 kilograms

# ANIMAL PRODUCTION UPDATE



## NUTRI-Mins

### GENERAL PURPOSE

#### PACK SIZE

20KG

BAG

#### RATE OF USE

SHEEP 10-30 GRAMS /HEAD/DAY

CATTLE 40-100 GRAMS /HEAD/DAY

#### DIRECTIONS

OFFER AD LIB IN WELL DRAINED FEED POINTS

### Why supplement grazing livestock?

Vitamin and mineral supplementation can correct subclinical cases of nutritional deficiency, which can have a greater economic impact than clinical cases of deficiency. Supplementation benefits immune function, reproduction rates, rumen function, feed conversion efficiency, average daily gain and therefore improve production.

Livestock grazing pasture and fodder crops are often deficient in the essential vitamins and minerals required to optimise growth, performance, reproduction and maintenance.

NUTRI-Mins General Purpose is a balanced formulation of essential minerals, trace elements and vitamins that provides the animals with the daily levels required to maintain health and maximise productivity.

NUTRI-Mins General Purpose is a waterproofed, loose lick for all weather use and is presented in a consistent granular form that is molassed to optimise intake.



## AGRONOMIC INSIGHT

### Strategies for improving run down pastures

Bede O'Mara - Technical Agronomist 25 September 2019  
Incitec Pivot Fertilisers

Pasture productivity decline is widespread in Australia's northern pastures. While it is often attributed to poor seasonal conditions, and drought certainly has been a factor, other issues including nutrient deficiencies are generally involved.

Run down pastures are not difficult to identify. There's a change in pasture density, reduced ground cover and often there are invasions of weeds and native pastures as well. There is likely to be little or no flowering or seed heads. Sometimes there are prominent green areas of better growth around dung and urine patches or cattle camps.

There are three main strategies for dealing with run down pastures. The first is to accept the lower pasture production. This may involve reducing stocking rates, supplementing stock with other feed sources or putting up with reduced animal performance.

Another strategy is to increase nitrogen cycling through the mechanical disturbance of the soil surface to release some of the soil's organic nitrogen. The tillage shatters the compacted surface soil layer, increasing aeration, water infiltration and incorporation of surface litter and manures. Less favourably, however, it can leave producers with loose topsoil that can be lost via erosion or blown away by the wind. It can also be costly in terms of fuel, labour and wear and tear on machinery and provide only short-term results.

The third strategy is to add nitrogen fertiliser or establish legumes in the paddock to provide a source of nitrogen to the grasses. If the nitrogen is drilled into the soil, it might even provide a double benefit by supplying nitrogen to the grass while the cultivation sets off the release of organic nitrogen.

Before making a major fertiliser investment, arrange tissue testing or soil testing to assess the availability of phosphorus, potassium and sulphur.

For nitrogen, it is better to buy a bag of urea and apply it as a test strip. The recommendation from the Queensland Department of Agriculture and Fisheries and New South Wales Department of Primary Industries is to apply between 50 and 100 kg/ha of nitrogen. If this shows a benefit to pasture growth, an early spring application to the whole paddock can be considered. See Photo 1.



Photo 1: An example of a pasture response to nitrogen in a test strip.

Nitrogen fertiliser options include urea to provide a straight nitrogen source or a specially developed multi-nutrient pasture fertiliser such as one of the **Boosta**® range of fertilisers or a custom blend to match nutrient requirements. Incitec Pivot Fertilisers' custom blending service allows tailored blends to be created to give the pasture all the nutrients it needs to perform without adding any that aren't required.

When urea is topdressed to pastures, there is always a risk of volatilisation before it is moved into the soil. Losses of around 30% have been recorded in trials conducted by independent researchers (Suter et al, 2013 and Schwenke et al., 2012). Where rainfall is not reliable, **Green Urea NV**® has been shown to significantly reduce these losses by delaying the formation of ammonia for up to 14 days.<sup>1</sup>



#### Great links to look at :

The following link provides information regarding to strategies for improving pastures.

<https://www.incitecpivotfertilisers.com.au/news-and-insights/agronomic-insights/pasture/strategies-for-improving-run-down-pastures>

The following link provides The Ground Rules for Pasture have been developed to help you maximise your productivity and output, the brochure is available for download through the link below.

<https://groundrules.com.au/>

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