

At a Glance...

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- Critical Nitrogen Timings in Wheat
- Know When to Pause in Wet Conditions
- World First – Oral Lice Treatment for Sheep
- Anaesthetics and Analgesics at lamb marking.



Hopefully some of you are enjoying school holidays in warmer climates, taking a well deserved break after a frustrating sowing season, or just curling up in front of the fire enjoying a nice mulled wine...

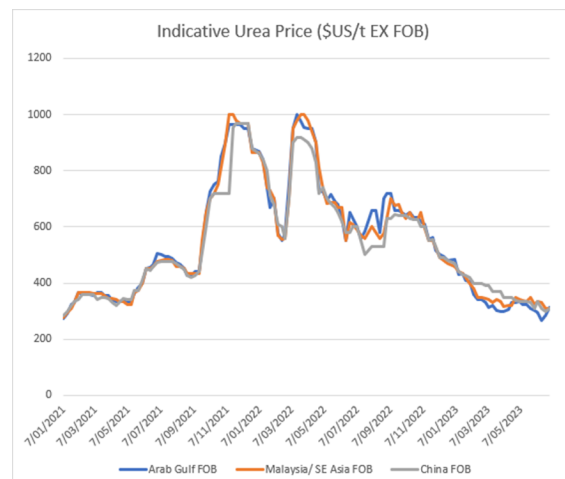
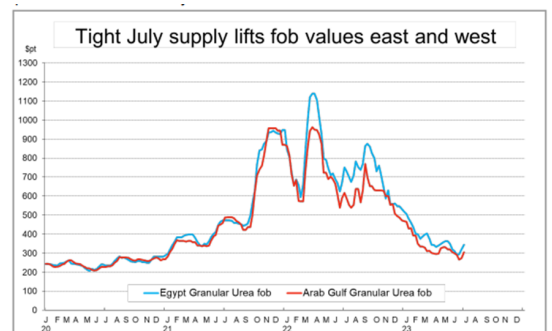
Anyway, as usual the Gorst Rural crew have been busy finishing up EOFY requirements, tidying up, and full steam ahead on a full range of trials: new nitrogen treatments, crop varieties and technologies, including a game changing seed dressing. The livestock production team is preparing for lamb marking, and also some new products for pain relief and a the first ever oral treatment in sheep for lice. Read on for some articles...

Fertiliser

If a week is a long time in politics, then a day is eternity in fertiliser trading terms. **Urea**—Australian urea markets are as volatile as ever, and some recent delays with production in Malaysia and Indonesia have flowed into market shorts. Add this to increased uptake from Eastern seaboard cropping zones which pencilled in dry starts and reluctance to buy early. Of recent times they have re-entered the market with vengeance - leading to panic buying...

Internationally the urea price has levelled or slightly increased with supply cutbacks in SE Asia & reluctance from China to fill low price tender from India. The S&D curve is out of whack, and we are seeing spot pricing to cover market shorts. Incitec Pivot and Wengfu have not brought in any late July or August shipments, and traders very hesitant in buying spot tonnes.

We do have product available, however we have had to pay a premium to keep wheels turning so there are moderate increases. Once we see more balance in the market, pricing may also level out, watch this space. Booking slots are also at a premium, so please plan booking & freight slots as far ahead as possible (at least a week at this stage)



GORST RURAL

Lake Bolac
P 5350 2440 F 5350 2301
Derrinallum
P 5597 6668 F 5597 6713
Skipton
P 5340 2262 F 5340 2321
Tatyoon
P 5354 0585 F 5354 0571
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Phosphorus—P market declining in SE Asia, rising in the Americas, US market tightening, *Opinion—just grab APs as required.*

AgChem Update

Just as fert commodities bounce around, so to the agchem industry. General commentary has been that Chinese manufacturers have been building up inventories in light of good pricing in recent times only to have large stockpiles whilst farmers changed spending habits. With Chinese government policies, Ukraine conflicts and general pressure on manufacturing, input supply is challenging. However—with Brazil buying large amounts of glyphosate in last weeks, and suppliers willing this to lift pricing. Q4 tends to see buyers re-enter market so it will be interesting to see what happens next.

Glyphosate—there has been international activity, and some purchasing locally suggesting the market has bottomed. There is still plenty of stock around, so will be interesting to see. We have 450, Weedmaster Argo and Crucial available for those interested in positions.

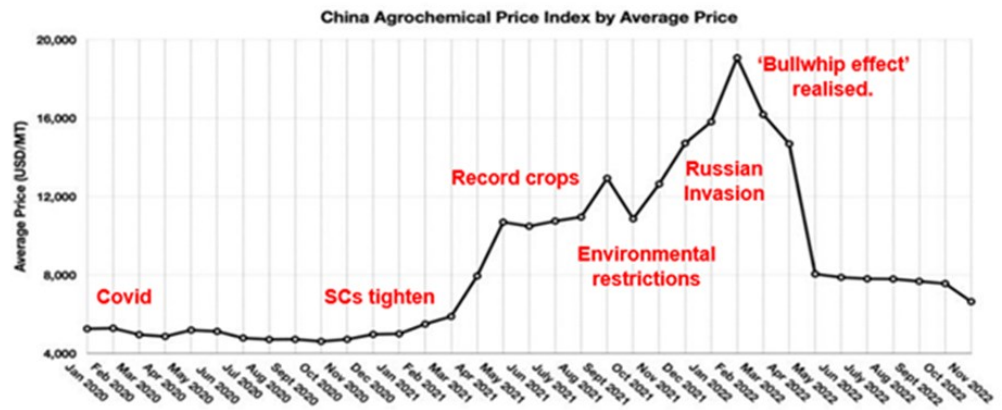
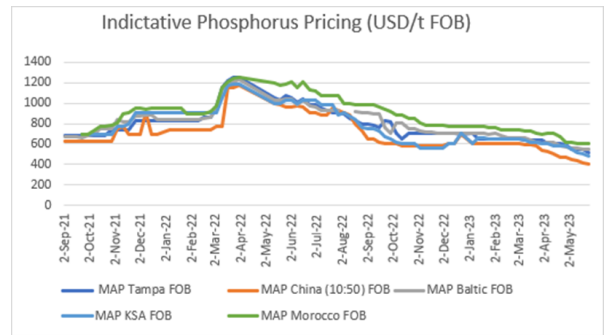


Fig 1; The Agrochemical price journey (Courtesy of Nufarm)

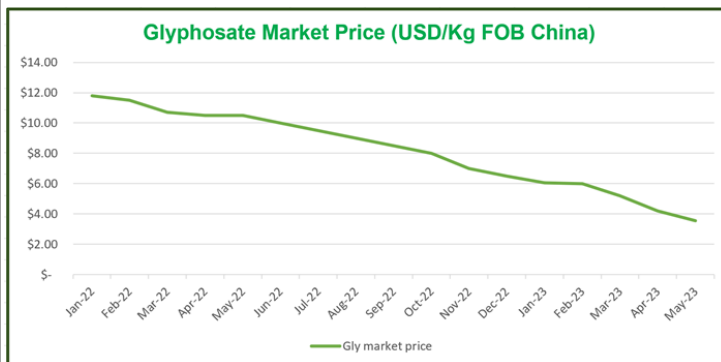


Fig 2; Glyph Tech Pricing (Courtesy of Nufarm)

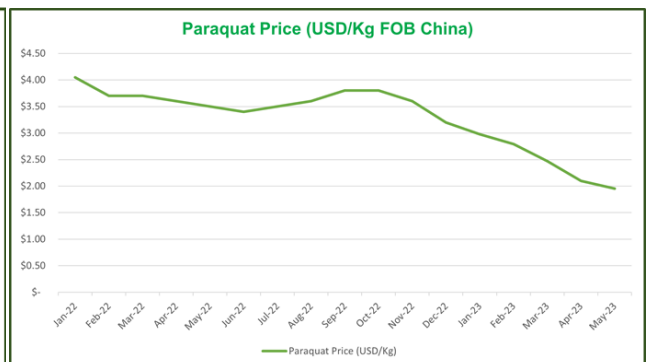


Fig 3; Paraquat Tech Price trends (Courtesy of Nufarm)

Paraquat—price has been steadily declining, but will be interesting to see if trends follow interest in glyphosate. We do have supplies of Gramoxone 360 if anyone is interested.

Trifluralin—market prices still easing, and intelligence suggests it hasn't had production demands (yet).

Fungicides—generally in good supply and pricing slightly easing. Price adjustments to ProSaro this month, see a general reduction. Orius, Veritas, Maxentis, Miravis Star, Aviator Xpro, Elatus Ace, Amistar Xtra, Radial and Soprano all in good supply.

Reminder

Please be aware that our accounts are strictly due the 25th of the month following purchase. Timely payments enables us to meet our commitments, and supply product as the best possible price without expensive finance and terms agreement. If you are encountering difficulties with cashflow and meeting obligations, please have the conversations now so we can organise a plan of attack. We are able to offer contact with DLL Input finance, that can offer crop input finance, please talk to us today about your requirements.

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Critical Nitrogen Timings in Wheat

Critical timings of nitrogen application in wheat crops can vary depending on factors such as the wheat variety, climate conditions, soil fertility, and management practices.

Firstly, available nitrogen already present in the soil should be determined prior to sowing the crop to help calculate nitrogen budgeting before deciding when to apply. However, you can still take deep N samples following sowing if needed to help determine a budget.

There are several key stages in wheat growth where nitrogen application is considered critical. These timings include:



1. **Pre-planting or pre-sowing:** Nitrogen application before planting or sowing sets the foundation for early growth. It helps provide an initial nutrient supply for the emerging seedlings and promotes vigorous early growth. This can be achieved through incorporating nitrogen-rich fertilizers into the soil prior to planting. This isn't particularly common in our area mainly due to how favorable our conditions are.
2. **Starter application:** In most cases, growers will band a starter fertilizer containing nitrogen as well as phosphorus or even sulfur (eg: MAP or GAIN-ZS) at planting about 2cm below the seed or just off to the side of the seed. This provides an immediate nutrient boost to the young plants and encourages early root and shoot development.
3. **Tillering stage:** The tillering stage is a critical period when wheat plants develop additional tillers or stems. Nitrogen application during this stage promotes tiller formation and increases the potential number of heads per plant. Applying nitrogen at this stage ensures an adequate nutrient supply for tiller development and helps maximize yield potential.
4. **Stem elongation (jointing) stage:** This stage marks the transition from vegetative to reproductive growth in wheat. Nitrogen application during stem elongation is crucial as it supports the development of a strong, healthy stem and increases the number of potential grains per head. This timing is often considered the most critical for nitrogen application as any stress during this period can directly affect yield potential. This is also a good opportunity to top up micronutrients (eg: zinc, copper, molybdenum) through your tank mixes of fungicides and broadleaf sprays, if necessary.
5. **Heading and flowering stage:** As wheat enters the heading and flowering stage, it undergoes the reproductive phase, and nutrient demands increase significantly. Nitrogen plays a vital role in grain development and protein synthesis. Timely nitrogen application at this stage helps ensure optimal grain filling, promotes higher grain weight, and enhances protein content.
6. **Post-flowering stage:** While the demand for nitrogen decreases after flowering, some late-season nitrogen application may still be beneficial to support grain filling and maximize yield potential. This can be particularly important if there are signs of nitrogen deficiency or if the crop has been subjected to stress conditions.

Typical recommended urea applications will look like a broadcast to the crops nutrient requirement at GS 21 (tillering), GS 30 (jointing and stem elongation) and GS 37 (flag leaf emergence).



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Know When to Pause in Wet Conditions

Urea is the most used nitrogen fertiliser in agricultural practices, particularly for canola, wheat, and pastures. To make the most of urea's benefits, timing is crucial. One critical factor to consider is the moisture level of the soil.

While urea promotes crop growth, it should be avoided under excessively wet soil conditions. Here are some indicators that the soil is too wet for spreading urea:



1. **Waterlogged or Saturated Soil:** if the soil is waterlogged or saturated, hold off on urea application. In such conditions, urea nitrogen is prone to denitrification, where nitrogen converts into a gas and escapes into the atmosphere. This reduces the effectiveness of the fertiliser.
2. **Runoff Potential:** Be cautious if heavy rainfall is expected soon after applying urea. Excessive water can cause significant runoff, carrying away the urea and leading to nutrient loss and potential water pollution.
3. **Poor Soil Structure:** Soils with poor structure or high clay content tend to retain water for longer periods, leading to prolonged wet conditions. Spreading urea on such soils during excessively wet periods increases the risk of nitrogen loss due to leaching or runoff.

In conclusion, avoid spreading urea on waterlogged soil, be cautious of runoff potential, and consider the soil structure. By considering both the growth stage of your crops and the moisture content of the soil, you can make informed decisions about urea application. We working on some treatments and technology to improve this situation—come along to our upcoming fields to see for yourself. For more guidance and detailed information, don't hesitate to reach out to your Gorst Rural Agronomist.

World First – Oral Lice Treatment for Sheep

- FLEXOLT – FLEXible Oral Lice Treatment
- Active: 10g/L Fluralaner (initially registered for companion animal 2014)
- Effective control in any length wool
- Can treat lambs over 6kg
- Dose 3ml / 20kg

How it works...

- Works systemically in the animal to enter the blood stream and target lice at the skin surface
- Lice feeding at the skin layer both ingest and contact the active – interferes with arthropod nervous system (not in mammal species)
- Do not treat ewes within 4 weeks of lambing (as live lice could persist and transfer to lambs)
- Do not re-treat within 54 days
- Withhold: Meat 14 days, ESI 54 days, Wool Nil



Sheep Lice

- All sheep breeds, including shedding breeds, can carry and spread lice
- Possible but difficult to eradicate from a flock
- Estimated 70% of properties will fail to eradicate with a single treatment
- Is it Lice?
- If lice is the issue you will be able find them – inspect 10 sheep that are rubbing and do 20 wool partings
- Infestations: Takes 2-6 months for population to build up to a level where sheep rub

Quarantine Purchased Sheep

- Always assume purchased sheep have lice – not detectable until 2000+ lice (slow egg layers).
- Treat with Oral (Flexolt) on arrival OR shear and backline

Unshorn Lambs at Foot

- Best option – Oral with Flexolt all ewes and lambs

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- Shear and treat all at same time (backline)

Best practice is to rotate between chemical groups, so whilst this oral treatment is a potential game changer, the use of backliners (and to a lesser extent dips) shall be recommended in rotation of these chemical groups.

Chemical Groups available in sheep lice treatment space are:

Mectins (Ivermectin), Spinosyn (Extinosad), Neonicotinoids (Imadicloprid – Avenge, Thiacloprid – Viper), OP's (Diazinon, Temephos - Assassin) and now Isoxazoline (Fluralaner – Flexolt)

ANAESTHETICS AND ANALGESICS AT LAMB MARKING

Industry focus is very much on animal welfare practices, along with these practices comes great upside in livestock production.

Generally, lambs are first handled at lamb marking time and it can be a distressing process that creates a setback for them.

The development of effective and practical anaesthetic and analgesic treatments for lambs has been a critical advance in alleviating the pain and distress lambs experience at marking.

- **TRI-SOLFEN®** Short acting local anaesthetic Fan spray application to the wound (effective in less than 1 min) 90 days WHP
- **BUCCALGESIC® (Butec)** Longer acting analgesic Oral with custom applicator – gel applied inside the cheek (effective from 10 mins) 10 days WHP
- **NUMOCAINE® (NUMNUTS® DELIVERY)** Short acting local anaesthetic Injection with Numnuts® device (effective in less than 1 min) 0 days WHP

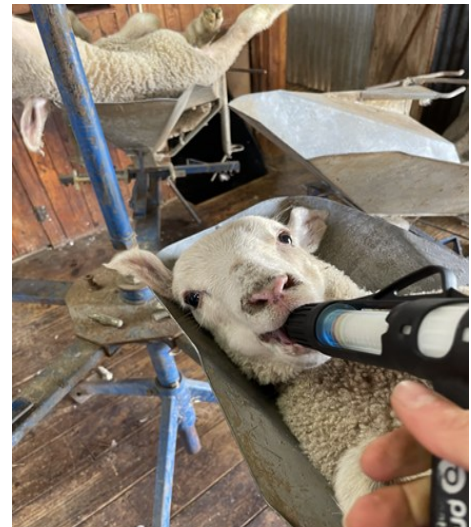
These products are now available through Gorst Rural Supplies.

Gold Standard Pain Relief

Some pain relief is better than none. Not all pain relief products work in the same way. Each product type brings its unique benefits.

Multimodal pain relief is considered the gold standard.

- Provide pain relief to combat fast and slow pain.
- Provide anaesthesia (numbing the surgical area) and analgesia (reducing inflammation and pain).






BUTEC – simply apply on inside of the cheek.

With the addition of **BUTEC** to the OTC market, producers will be able to strive for better welfare outcomes with easily accessible multimodal pain relief.

To date they have only been able to address fast onset pain. Now they can additionally address slow onset / chronic pain.

Gold Standard Options Through OTC

TROY Animal Healthcare

Product	Formulation	Mode of Action	Mulesing and Tail Docking (Surgical)	Mulesing and Tail Docking (Rubber Rings)	Tail Docking and Castration (Surgical)	Tail Docking and Castration (Rubber Rings)	Disbudding/ Dehorning and Castration (Surgical)	Disbudding/ Dehorning and Castration (Rubber Rings)
Numnuts		Local Anaesthetic		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
Tri-Solfen		Local Anaesthetic Blood vessel constriction, Antiseptic	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BUTEC		Anti-Inflammatory Pain Relief	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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PRE-LAMBING / LAMB MARKING / WEANING—PLACE YOUR ORDERS NOW

With current seasonal conditions and ongoing supply concerns, the Gorst Rural team would like to offer you an opportunity to secure your Pre-Lambing / Lamb Marking / Weaning requirements.

Main Points:

- Take your main requirements now - please consider what you need as with a tight supply market we cannot accept returns.
- Take the time to pre-organise your requirements - we'll do the rest!
- We will collate, pack and deliver free on farm for when you need it.

Trading Name:
Date Required:

Vaccine	Pre-Lambing		Lamb Marking	Weaning	Preferred Product	Quantity
	Dose	Booster Ewes	1st Dose	2nd Dose		
Glnery 7 B12						
Glanvac 6						
Glanvac 6 B12						
Glanvac 6S B12						
Gudair						
Scabigard						
Other...						
Drenching	Ewes			Weaners		
Cydetin LA						
Eweguard						
Weanerguard						
Triple active						
Zolvix						
Startect						
Other...						

	Quantity	Quantity		
Tri-Solfen				
Butec OTM				
Marking Rings				
Elastrators				
Vaccinators				
Needles				
Stock Marker				
Other...				



Feel free to phone your local Gorst Rural Store for any queries.

