



FREE CHOICE

supplementation system

A guide to increasing the health & productivity of your livestock



NORTHERN

FREE CHOICE

SUPPLEMENTATION



WHY USE OLSSON'S FREE CHOICE SUPPLEMENTATION SYSTEM?

Olsson's Free Choice System identifies nutritional deficiency in livestock and satisfies the deficiency efficiently and effectively. We place major minerals in individual supplement blocks, allowing the animals to choose which minerals they require as they require them.

The Free Choice System for northern Australia typically includes the following blocks:

PROTEIN (NITROGEN): NT Uraphos + 30% (or 40%) Urea

SULPHUR: High Sulphur 16% or Allicin + Sulphur

PHOSPHORUS: Superphos 8% (or 12%)

TRACE ELEMENTS: Trace Element Northern Breeder

Because Olsson's Free Choice System splits the macro minerals, animals can satisfy their own nitrogen requirements, sulphur requirements,

and can balance their own sulphur to nitrogen ratio by consuming varying amounts of urea and sulphur separately. This means that livestock will only consume the nutrients they need, avoiding overconsumption (and the wasted money that goes along with it).

The system indicates which nutrients the animals are deficient in. If the animals are consuming large amounts of the Trace Element Northern block for example, we can start to test the most limiting factor and determine what the animals are deficient in, and satisfy that deficiency. Tests available to determine the most limiting factor include dung testing, pasture testing, hair sampling and water testing. Many of Olsson's clients use these tests to fine tune their production system.

HOW DOES IT COMPARE TO OTHER OPTIONS ON THE MARKET?

We have found that loose mix and other blocks work well until livestock require certain nutrients more than others. This is where over-consumption happens. The animal consumes large amounts of unneeded nutrients in order to access the required nutrients. Over-consumption is often corrected by souring the lick. However, with this approach livestock may stop consuming before the deficiency is corrected. Even if they are consuming the nutrients they need, often livestock will consume the nutrients faster than their bodies can absorb them. They then excrete the unabsorbed nutrients, leading to wasted supplement, and wasted money.

Our blocks regulate the intake of nutrients-meaning the animals can only consume nutrients as fast as they can absorb them. This leads to healthier cattle, and a healthier wallet.

People may assume that purchasing three or four blocks instead of one complete supplement is more costly. In reality, cattle consume less supplement because they are able to satisfy their deficiency quickly and with a minimal amount of intake. If they do not need it, they will not eat it as the blocks are not sweet or overly palatable. Olsson's blocks are weather resistant and will not wash away in heavy rainfall.

If introducing blocks to livestock for the first time, supply salt to animals before putting any supplements out. Cattle, like humans, sweat sodium and naturally will have a craving for salt. Often they will hit any supplement hard at the start just to chase the salt. By supplying salt first, we can eliminate sodium craving and prevent overconsumption of more expensive lick.



Increases Productivity



Improves Fertility



Safe & Simple



Cost Effective



Blocks for Ruminants

FREE CHOICE

FOR WET & DRY SEASONS

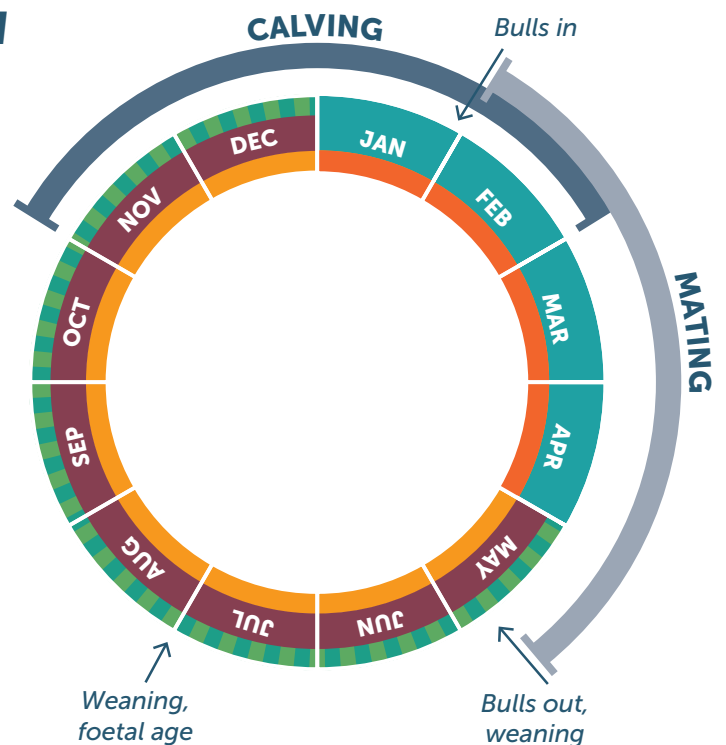
| | PROTEIN | SULPHUR | | PHOSPHORUS | TRACE ELEMENTS |
|------------|---|--|---|---|---|
| | <i>NT Uraphos</i> (page 7) | <i>High Sulphur</i> (page 9) | <i>Allicin + Sulphur</i> (page 9) | <i>Superphos</i> (page 8) | <i>Trace Element Northern Breeder</i> (page 6) |
| DRY SEASON | ● | ● | | ● | ● |
| WET SEASON | | | ● | ● | |
| | <i>Maximise protein conversion & utilise dry feed</i> | <i>Sulphur improves rumen efficiency</i> | <i>Improves rumen efficiency & increases natural resistance</i> | <i>Improves fertility, lactation & growth rates in calves</i> | <i>Prepares breeder for ovulation & early embryo growth & pregnancy</i> |

BREEDING CYCLE DIAGRAM

The diagram to the right shows the time of year to feed out Olsson's blocks in order for optimal production to be achieved.

DIAGRAM KEY

- NT Uraphos + 30% or 40% Urea
- Superphos 12%
- 16% High Sulphur
- Allicin + Sulphur
- Trace Element Breeder &/OR Superphos 8%









Due to the pasture and weather conditions of the region, ruminants in northern Australia are commonly deficient in phosphorus, sulphur & trace elements during the wet season, and protein, sulphur & trace elements during the dry season.

The recommended block ratios for the wet season and dry season are listed to the right, but please note that these may change depending on individualised pasture conditions.

For more information on the blocks browse the following pages or check out our website at olssonsblocks.com.au.

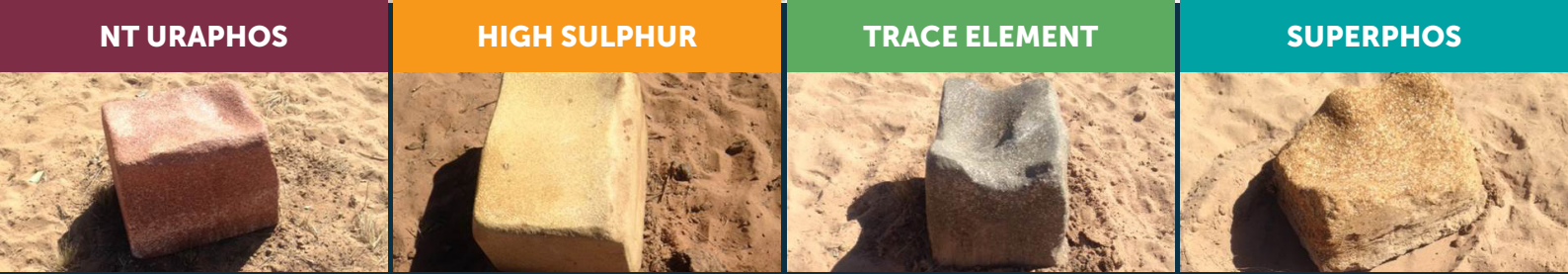
By feeding the Free Choice program over a standard multi-nutrient block, the animal has the ability to choose and balance what they require- this ends up reducing consumption by up to 25%.

| | | TYPICAL BLOCK RATIOS | | | | | |
|---|---------------------------------------|----------------------|-----------|----------|-----------|----------|----------|
| PRODUCT | | 40KG | | 100KG | | 125KG | |
| | | DRY | WET | DRY | WET | DRY | WET |
|  | NT Uraphos + 30 or 40% Urea | 18 | | 9 | | 6 | |
|  | Superphos 12% | | 20 | | 10 | | 7 |
|  | High Sulphur | 4 | | 2 | | 1 | |
|  | Allicin + Sulphur | | 4 | | 2 | | 1 |
|  | Trace Element Northern Breeder | | | | | | |
| OR (dotted line on diagram) | | 2 | | 1 | | 1 | |
|  | Superphos 8% | | | | | | |

DRY SEASON PALLET

WET SEASON PALLET





TRACE ELEMENT BLOCK

Trace Element Northern Breeder



A block to combat deficiencies in trace elements which can reduce growth & reproductive rates.

Olsson's Trace Element Northern Breeder is a macro mineral supplement designed for a broad range of mineral deficiencies that are common in northern pastures. Trace Element Northern Breeder also has additional zinc & selenium for cow & bull reproductive performance.

Balancing essential elements & minerals result in the efficient breakdown of feed consumed by the animal. Deficiencies in copper, iron, zinc, manganese, cobalt, iodine, & selenium can reduce the animal's growth and reproduction rates, and result in less efficient feed conversion and depressed immunity. Balancing these elements will improve general production of the herd.

| DIRECTIONS FOR USE | TYPICAL ANALYSIS | | | |
|---|------------------|-----------|---------------------|-----------|
| Sheep/Goats: 5-10g per head per day Cattle: 50-100g per head per day | Molasses | 5% | Cobalt (Co) | 65mg/kg |
| | Salt (NaCl) | 82% | Ferrous Iron (Fe++) | 1350mg/kg |
| | Calcium (Ca) | 1% | Iodine (I) | 500mg/kg |
| | Phosphorus (P) | 1% | Selenium (Se) | 104mg/kg |
| | Sulphur (S) | 0.8% | Iron (Fe) | 650mg/kg |
| | Magnesium (Mg) | 0.02% | Zinc (Zn) | 2400mg/kg |
| | Copper (Cu) | 1000mg/kg | KemTrace™ Chromium | 58mg/kg |

PROTEIN BLOCKS

NT Uraphos + Urea



A protein supplement with phosphorous & broad range macro & micro minerals.

Olsson's NT Uraphos blocks are designed to provide stock with maximum protein conversion by assisting stock to consume and utilise available dry feed. Available with 30%, 40% or 50% urea (see tables below for more specific product information).

NT Uraphos is high in phosphorus making it the ideal product for phosphorus deficient pastures like those found in Northern Australia. This product offers superior feed conversion and the compressed dry block delivery system controls intake improving utilisation of urea in the ruminant. Suitable for all cattle breeds.

Warning: Products containing urea can be toxic to livestock. Please ensure proper farm management practices are employed.

NT URAPHOS + 30% UREA



| DIRECTIONS FOR USE | | TYPICAL ANALYSIS | | | |
|-------------------------------|------------------------------|---------------------------|----------|----------------|-------|
| Approximate block consumption | Approximate urea consumption | | | | |
| 150g/head/day | 45g/head/day | Urea | 30% | Calcium (Ca) | 2% |
| | | Total Protein Equivalents | 86% | Phosphorus (P) | 2% |
| | | Molasses | 2% | Magnesium (Mg) | 0.28% |
| | | Salt (NaCl) | Max. 45% | Iron (Fe) | 0.1% |
| | | Zeolite | 6% | | |

NT URAPHOS + 40% UREA



| DIRECTIONS FOR USE | | TYPICAL ANALYSIS | | | |
|-------------------------------|------------------------------|---------------------------|----------|----------------|-------|
| Approximate block consumption | Approximate urea consumption | | | | |
| 113g/head/day | 45g/head/day | Urea | 40% | Calcium (Ca) | 2% |
| | | Total Protein Equivalents | 114.86% | Phosphorus (P) | 2% |
| | | Molasses | 2% | Magnesium (Mg) | 0.28% |
| | | Salt (NaCl) | Max. 32% | Iron (Fe) | 0.1% |
| | | Zeolite | 8% | | |

NT URAPHOS + 50% UREA



| DIRECTIONS FOR USE | | TYPICAL ANALYSIS | | | |
|-------------------------------|------------------------------|---------------------------|----------|----------------|-------|
| Approximate block consumption | Approximate urea consumption | | | | |
| 90g/head/day | 45g/head/day | Urea | 50% | Calcium (Ca) | 2% |
| | | Total Protein Equivalents | 114.86% | Phosphorus (P) | 2% |
| | | Molasses | 2% | Magnesium (Mg) | 0.28% |
| | | Salt (NaCl) | Max. 32% | Iron (Fe) | 0.1% |
| | | Zeolite | 8% | | |

PHOSPHORUS BLOCKS

Superphos

A quality source of phosphorus and trace elements.
Now with live probiotics for improved feed conversion.

Olsson's Superphos is a multi-nutrient supplement used to reduce phosphorus deficiency and provide energy for metabolism, growth, digestive function, fertility and lactation for all livestock. Now with live probiotics for improved feed conversion.

Superphos helps improve fertility and milk production, as well as help lower mortality rates and aids in reducing prolapse.

Advantages of Superphos include controlled intake, no wastage, weather resistant, & cost effective. Available with 8%, 12% or 15% phosphorus (see tables below for more specific product information).

SUPERPHOS 8%



| DIRECTIONS FOR USE | | TYPICAL ANALYSIS | | MICRO INGREDIENTS | |
|---------------------------|--------------------------------|--------------------------|-----|-------------------|-----------------------------|
| Approx. block consumption | Approx. phosphorus consumption | | | | |
| 95g/head/day | 7.6g/head/day | Molasses | 4% | Copper (Cu) | 1250mg/kg |
| | | Salt (NaCl) | 46% | Cobalt (Co) | 15mg/kg |
| | | MDCP | 49% | Zinc (Zn) | 320mg/kg |
| | | MACRO INGREDIENTS | | Selenium (Se) | 26mg/kg |
| | | Calcium (Ca) | 9% | Live Probiotics | 10 ⁹ cfu/ml 0.5% |
| | | Phosphorus (P) | 8% | | |

SUPERPHOS 12%



| DIRECTIONS FOR USE | | TYPICAL ANALYSIS | | MICRO INGREDIENTS | |
|---------------------------|--------------------------------|--------------------------|-----|-------------------|-----------------------------|
| Approx. block consumption | Approx. phosphorus consumption | | | | |
| 64g/head/day | 7.6g/head/day | MCP | 53% | Copper (Cu) | 1250mg/kg |
| | | Molasses | 5% | Cobalt (Co) | 15mg/kg |
| | | Salt (NaCl) | 33% | Zinc (Zn) | 320mg/kg |
| | | MACRO INGREDIENTS | | Selenium (Se) | 26mg/kg |
| | | Calcium (Ca) | 13% | Live Probiotics | 10 ⁹ cfu/ml 0.5% |
| | | Phosphorus (P) | 12% | | |

SUPERPHOS 15%



| DIRECTIONS FOR USE | | TYPICAL ANALYSIS | | MICRO INGREDIENTS | |
|---------------------------|--------------------------------|--------------------------|-------|-------------------|-----------------------------|
| Approx. block consumption | Approx. phosphorus consumption | | | | |
| 51g/head/day | 7.6g/head/day | MCP | 66.5% | Copper (Cu) | 1250mg/kg |
| | | Molasses | 5% | Cobalt (Co) | 15mg/kg |
| | | Salt (NaCl) | 20% | Zinc (Zn) | 320mg/kg |
| | | MACRO INGREDIENTS | | Selenium (Se) | 26mg/kg |
| | | Calcium (Ca) | 15.9% | Live Probiotics | 10 ⁹ cfu/ml 0.5% |
| | | Phosphorus (P) | 15% | | |

SULPHUR BLOCK

16% High Sulphur



A sulphur supplement to stimulate rumen activity and wool productivity.

Olsson's 16% High Sulphur provides sulphur and minerals that are essential in developing bacteria in the rumen. Sulphur should be available to livestock at all times, as it is important to the growth and survival of fungi in the rumen, which are essential in assisting the rumen bacteria in deriving essential nutrients from dry and fibrous feeds. Sulphur is also critical when offering high urea supplementation to encourage optimum rumen flora.

| DIRECTIONS FOR USE | TYPICAL ANALYSIS | | | |
|--|------------------|-----|-------------|-----|
| Sheep/Goats: 5-10g per head per day | Molasses | 4% | Zeolite | 5% |
| | Salt (NaCl) | 75% | Sulphur (S) | 16% |
| Cattle: 50-100g per head per day | | | | |

SULPHUR BLOCK

Allicin + Sulphur



A sulphur supplement with the addition of Allicin Plus to stimulate rumen function & increase natural resistance.

Olsson's Allicin + Sulphur helps reduce fly, tick and lice burden. It also provides sulphur & nutrients to encourage optimal microbial growth & ammonia balance.

Allicin + Sulphur provides an effective, natural and ongoing solution to fly, tick and lice burden. In trials, our formulation has reduced the burden to less than 100 flies per animal (the threshold to drench).

| DIRECTIONS FOR USE | TYPICAL ANALYSIS | | | |
|--|------------------|-----|-------------|------|
| Sheep/Goats: 5-10g per head per day | Molasses | 4% | Sulphur (S) | 12% |
| | Salt (NaCl) | 75% | Allicin | 0.3% |
| Cattle: 50-100g per head per day | | | | |
| Also suitable for horses. | | | | |

FREE CHOICE

BLOCKS FOR PRODUCTION FEEDING



| | Weaner Pro (page 11) | Grow Pro 50 (page 11) | Bentobite (page 12) | Stock Tranz (page 12) |
|---|-------------------------|--------------------------|------------------------|--------------------------|
| WEANING | ● | ● | | ● |
| FINISHING | ● | ● | | |
| EARLY WET | | | ● | |
| TOXIC PLANTS (refer to booklet) | | | ●+ | |
| TRANSPORT | | | | ● |

PRODUCTION FEEDING KEY

- Blocks for cattle
- + Additional blocks may be recommended depending on the plant. For more info refer to Olsson's guide to Toxic Plants.

There are many specialised conditions that require supplementation in order for optimal production to be achieved. Supplying blocks such as Weaner Pro and Stock Tranz at strategic times can greatly increase the productivity of the herd.

We also have many other supplements for a range of specialised conditions, so please talk to your agent or local Olsson's rep for more information on the supplementation that is right for your livestock.

WEANER PRO

CONDITIONS: Weaning (cattle)



A nutritionally targeted supplement for weaner calves.

Olsson's Weaner Pro contains bypass protein for the rumen development of young animals, and 10% urea. Weaner Pro is ideal for weaners, boosting growth rates, but can also be used for breeders and finishers.

Warning: Products containing urea can be toxic to livestock. Please ensure proper farm management practices are employed.

| DIRECTIONS FOR USE | TYPICAL ANALYSIS | | | |
|--|--------------------------|-----------|----------------|-------------|
| Sheep/Goats: 5-10g per head per day Cattle: 100-200g per head per day | Protein Meal | 40% | Magnesium (Mg) | 0.882% |
| | Urea | 10% | Calcium (Ca) | 2.5% |
| | Total Protein Equivalent | 40% | Phosphorus (P) | 0.545% |
| | Metabolised Energy (ME) | 4.25mj/kg | Manganese (Mn) | 6.18mg/kg |
| | Molasses | 7.5% | Iron (Fe) | 18.45mg/kg |
| | Sulphur (S) | 2.53% | Copper (Cu) | 0.825mg/kg |
| | Salt (NaCl) | 38.42% | Zinc (Zn) | 188.87mg/kg |
| | Potassium (K) | 0.389% | Selenium (Se) | 26mg/kg |

GROW PRO 50

CONDITIONS: Weaning



A high protein block for young stock. Contains amino acids & essential minerals & live probiotics to boost structural growth.

Olsson's Grow Pro 50 is a high protein block to assist with the rumen development of young calves and lambs. It contains essential minerals & microprotein blend, a stable and easily digestible source of protein produced through the microbial fermentation of natural raw materials such as raw sugar and beet molasses. Now with added probiotics for improved feed conversion.

Grow Pro 50 is ideal for weaners, breeders and finishers.

Warning: Products containing urea can be toxic to livestock. Please ensure proper farm management practices are employed.

| DIRECTIONS FOR USE | TYPICAL ANALYSIS | | | |
|--|---------------------------|---------|-----------------|-----------------------------|
| Sheep/Goats: 10-15g per head per day Cattle: 80-150g per head per day | Protein Meal | 20% | Magnesium (Mg) | 0.9% |
| | Microproteins | 20% | Calcium (Ca) | 2.5% |
| | Urea | 10% | Phosphorus (P) | 0.5% |
| | Total Protein Equivalents | 50% | Manganese (Mn) | 6.18mg/kg |
| | Molasses | 7.5% | Iron (Fe) | 18.45mg/kg |
| | Salt (NaCl) | 36% | Copper (Co) | 0.83mg/kg |
| | Metabolised Energy (ME) | 12mj/kg | Zinc (Zn) | 188.87mg/kg |
| | Sulphur (S) | 2.5% | Selenium (Se) | 26mg/kg |
| | Potassium (K) | 0.4% | Live Probiotics | 10 ⁹ cfu/ml 1.3% |

BENTOBITE

CONDITIONS: Early wet & toxic plants



A protein supplement with bentonite. Helps absorb toxins & control green season scouring.

Olsson's Bentobite helps absorb toxins, boosting production and controlling green season scouring.

Containing bentonite and protein meal, this block offers the benefits of binding some toxins in the gut, balancing rumen function and offering bypass protein.

Research at the University of New England showed that the addition of a very small amount of bentonite clay mineral and high quality bypass protein into the diet of sheep and cattle was highly beneficial in improving productivity.

| DIRECTIONS FOR USE | TYPICAL ANALYSIS | | | |
|--|---------------------------|-----|-------------|------|
| Sheep/Goats: 5-10g per head per day | Protein Meal | 25% | Salt (NaCl) | 31% |
| | Total Protein Equivalents | 9% | Bentonite | 33% |
| | Molasses | 7% | Sulphur (S) | 2.2% |
| Cattle: 50-100g per head per day | | | | |

STOCK TRANZ

CONDITIONS: Weaning, transport



A water soluble supplement supplying livestock with a balance of essential minerals, glucose & fructose.

When an animal is in distress, stress hormones and adrenalin effect the electrolyte mineral balance in the animal's body. Stock Tranz is a water soluble supplement in tablet form containing a balanced array of essential minerals, glucose & fructose. These essential minerals and sugars naturally lower the animal's stress levels, while also hydrating and replacing depleted electrolytes. This results in a calmer, easier to handle animal.

| DIRECTIONS FOR USE | TYPICAL ANALYSIS | | | |
|--|------------------|--------|----------|------|
| Drop necessary number of tablets into livestock's water supply (water trough or tank). One 150g tablet will dose approximately 200L. The tablet will slowly dissolve, supplying all livestock with a balance of essential minerals, glucose & fructose. Nil withholding period. Feeding Guide: 10 head= 2x150g tabs/day (2/3 in trough in morning and 1/3 at night prior to trucking) | Salt (NaCl) | 20.92% | Fructose | 1.8% |
| | Potassium (K) | 2.51% | Glucose | 2.2% |
| | Magnesium (Mg) | 0.3% | Maltose | 0.2% |
| | Sodium (Na) | 8.2% | Lactose | 0.2% |
| | Chloride (Cl) | 13.52% | | |
| | | | | |

TOXIC PLANT SOLUTIONS

For information on our blocks that help reduce or eliminate the effects of toxic plants ask your local rep for our guide or find it online at olssonsblocks.com.au

ALSO AVAILABLE



EQUINE

SUPPLEMENT RANGE



007 MINERAL HORSE BLOCK

Available in 2 & 20kg blocks.

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An essential mineral & trace element supplement for race, show & workhorses.

Olsson's 007 Mineral Block is a multi purpose supplement for horses grazing on all pastures.

It is an essential mineral and trace element supplement providing all horses extra vigor, stamina, muscle and bone strength. The balanced levels of calcium and phosphorus in the block builds strong bones in foals, and replenishes the minerals drawn from the mare's reserves during pregnancy. Perfect for working and eventing horses.

007 is the perfect way to maintain mineral and trace element balance in all horses.



EQUINE CALCIUM PLUS

Available in 2 & 20kg blocks.

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A chelated calcium & vitamin D supplement to combat calcium deficiency in horses.

During periods of dietary calcium deficiency, calcium is mobilised from the bone to keep blood calcium levels 'normal'. When a dietary calcium deficiency occurs for prolonged periods of time the calcium mobilised from the bone is replaced by fibrous tissue, resulting in weak bones and a 'big head' appearance. Most commonly seen in horses grazing tropical grasses such as kikuyu, buffel, setaria, green panic, para grass, pangola grass, guinea grass, signal grass and purple pigeon grass. These grasses contain substances called oxalates that bind up calcium, making it unavailable for absorption through the bowel. Horses eating moderate to high amounts of high phosphorous feeds such as cereal grains can also have a calcium blocking effect.



PEAK 50

Available in 18 & 30kg blocks.

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A premium protein supplement for pregnant, lactating or weaning horses and livestock.

Olsson's Peak 50 is a protein supplement that contains no urea, aimed at pregnant, lactating or weaning of horses and other livestock. Containing bypass protein, this block provides protein and energy to livestock to enhance performance.

It is used for conditions such as pre-lambing or calving, the first 6 weeks of weaning, or as an all-around horse supplement.



BLUE CAVIAR EQUINE BLOCK

Available in 16 & 40kg blocks.

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A calcium & mineral supplement to assist where deficiency may be prevalent. Plus seaweed, essential linseed oil & biotin.

Olsson's Blue Caviar Equine Block is formulated for horses grazing pastures of buffel, kikuyu, setaria, and some of the other exotic grasses. When on these pastures for extended periods horses develop the condition known as "Big Head". This condition occurs because the calcium in the grass, although often at the correct concentrations, becomes unavailable to the horse due to phosphorus excess in the diet, with symptoms such as swollen and sore bones, big head, and milk fever in pregnant mares.



ARGININE HORSE BLOCK

Available in 15kg blocks.

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A supplement containing high levels of arginine and silymarin to assist in the prevention of Birdsville disease.

Olsson's Arginine horse is a block containing 4% arginine and 0.1% silymarin.

Birdsville disease is a disease of horses caused by the consumption of *Indigofera linnaei*, with symptoms including incoordination of gait and dragging of hind limbs.

Arginine Horse block should only be used as a preventative measure and veterinary advice should be sought when symptoms are present or if paddock is heavily infested with Birdsville Indigo.



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